

APPENDIX A

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¹ <https://ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests>

² publicrecordsofficer@ecy.wa.gov

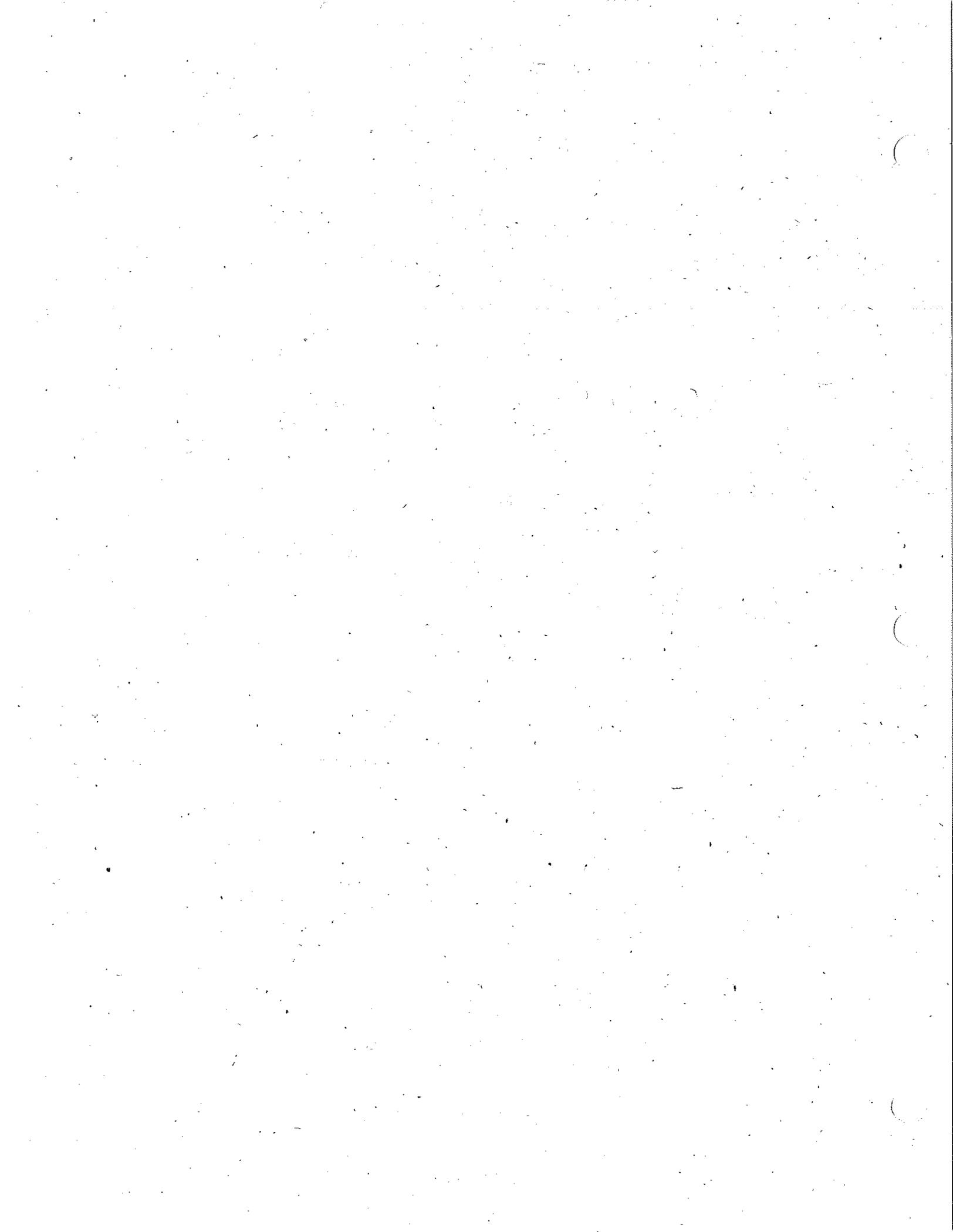
APPENDIX B

Boring Logs

ASSVE

APPENDIX C

Well Construction Logs



DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Silty sandy crushed and rounded rock FILL.						
0 to 10.5		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand; moist.						
10.5 to 30			Total depth = 10.5 feet below ground surface.						

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:**

LOGGED BY: S. Bourcy **DRILLING DATES:** 7/18/2003 - 7/18/2003

REMARKS:
Lithology logged by drilling character and cuttings return. No discrete soil samples collected.

Cadet Manufacturing

3-61M-10135-D T4

AMEC Earth & Environmental, Inc.
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LOG OF BORING
MP-4

PAGE 1 OF 1

Elevation Reference:

Well Completed: 8/21/00

Boring Method: Hollow Stem Auger

Relative Ground Surface Elevation:

Relative Casing Elevation:

Borehole Diameter: 4.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL. Dense, damp, brown, micaceous SILT (on auger flights).							
5								
10								
15	TD = 14.5 feet. Deeper hole due to wood plug.							
20								
25								
30								

LEGEND

PROJECT NUMBER: 0-61M-10135-2 T2A

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference: Well Completed: 8/21/00 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 4.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL (up to 5.0-inch diameter).							
5	Dense, damp, brown, micaceous SILT (on auger flights).							
6.0	TD = 6.0 feet.							
10								
15								
20								
25								
30								

LEGEND

PROJECT NUMBER: 0-61M-10135-2 T2A

Cadet Manufacturing
 Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

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 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference: Well Completed: 8/21/00 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 4.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	3.0-inch layer of grass and roots. Dense, damp, brown, micaceous SILT (on auger flights).								
5									
10									
15	TD = 14.5 feet.								
20									
25									
30									

LEGEND

PROJECT NUMBER: 0-61M-10135-2 T2A

Cadet Manufacturing
 Vancouver, Washington

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 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference:		Well Completed: 3/8/02					Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
0	Approximately 2.0-inch layer of asphalt.								
5	SILT, ML, dry, orange-brown.				5.6				
15	SILTY SAND, SP, dry, greenish brown, very fine-grained.				5.8				
Total depth = 15.5 feet.									
20									
25									
30									

LEGEND

2.0-inch OD split-spoon sample with % recovered

PROJECT NUMBER: 2-61M-10135-H

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Portland, Oregon 97224
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110135VE4.DRW

Elevation Reference:		Well Completed: 3/6/02					Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
0	Approximately 4.0-inch layer of asphalt over approximately 2.0-inch layer of gravel FILL.								
5	SANDY SILT.								
10	SANDY SILT.								
15	SANDY SILT.								
20	SAND, fine- to medium-grained, silt. SILTY SAND.								
	Total depth = 22.0 feet.								
25	NOTE: Boring drilled at 45 degree angle.								
30									

LEGEND

PROJECT NUMBER: 2-61M-10135-H

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Elevation Reference:		Well Completed: 3/6/02					Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
0	Approximately 4.0-inch layer of asphalt.								
5	SANDY SILT, ML, dry, green-brown.								
10	SANDY SILT, ML.								
15	SANDY SILT, ML.								
20	SILTY SAND.								
	Total depth = 22.0 feet.								
25	NOTE: Boring drilled at 45 degree angle.								
30									

LEGEND

PROJECT NUMBER: 2-61M-10135-H

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Elevation Reference: Well Completed: 3/6/02 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.25" O.D.

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Approximately 4.0-inch layer of asphalt.							
5	SILT, ML, dry, orange-brown, slightly micaceous.							
10	SAND, SP, dry, green-brown, very fine-grained, slightly micaceous, slightly clayey.							
15	SAND, SP, dry, green-brown, fine- to medium-grained.							
20								
23.0	Total depth = 23.0 feet.							
25	NOTE: Boring drilled at 45 degree angle. Sampling with split-spoon very difficult in angle boring, hammer sliding, not pulling (no blow counts). Further descriptions based on cuttings.							
30								

LEGEND

2.0-inch OD split-spoon sample with % recovered

PROJECT NUMBER: 2-61M-10135-H

Cadet Manufacturing
 Vancouver, Washington

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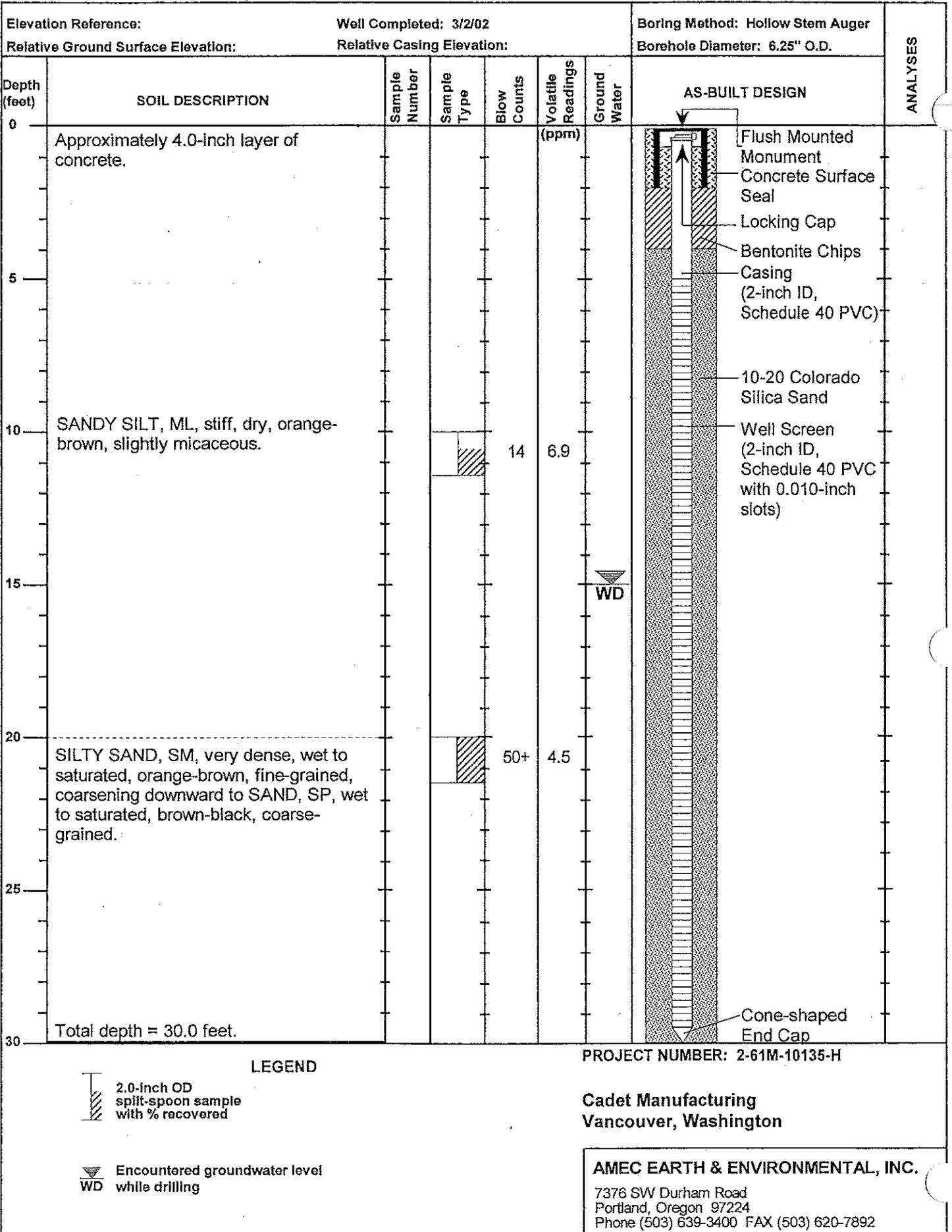
Elevation Reference:		Well Completed: 3/8/02					Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
0	Approximately 2.0-inch layer of asphalt.								
5	SILT, ML, dry, orange-brown.								
10									
15	SAND, SP, dry, greenish brown, fine- to medium-grained.								
20									
25	Total depth = 25.0 feet.								
30									

LEGEND
 2.0-Inch OD split-spoon sample with % recovered

PROJECT NUMBER: 2-61M-10135-H

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LEGEND

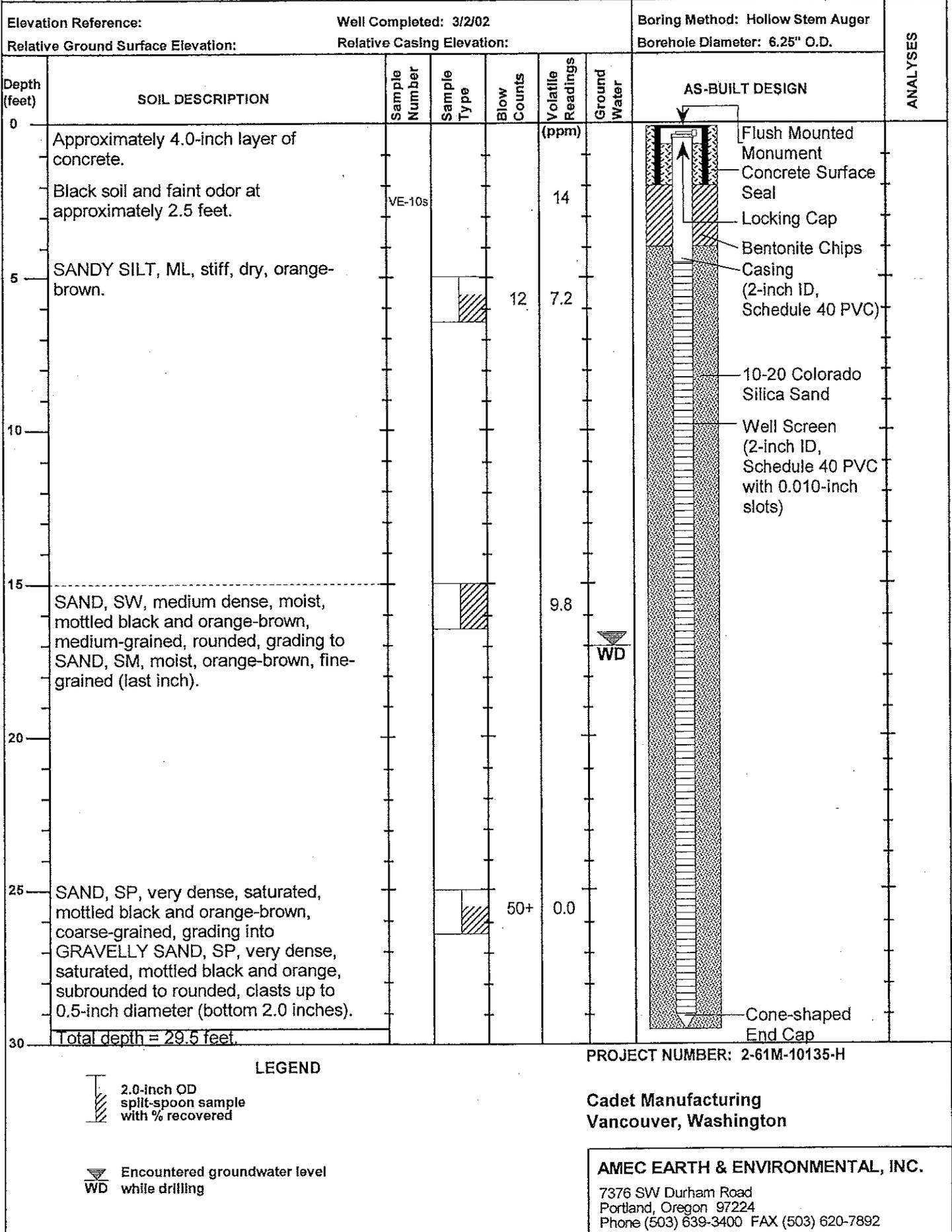
2.0-inch OD split-spoon sample with % recovered

Encountered groundwater level while drilling

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LEGEND

2.0-inch OD split-spoon sample with % recovered

Encountered groundwater level
WD while drilling

PROJECT NUMBER: 2-61M-10135-H

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Elevation Reference:		Well Completed: 3/1/02		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 6.25" O.D.			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Approximately 4.0-inch layer of concrete.						
5							
10	SANDY SILT, ML, very stiff, dry, orange-brown, slightly micaceous.			16	1.3		
15						WD	
20	SAND, SM, medium dense, wet, dark brown, fine- to very fine-grained.			26	13		
25							
30	Total depth = 29.5 feet.						

LEGEND

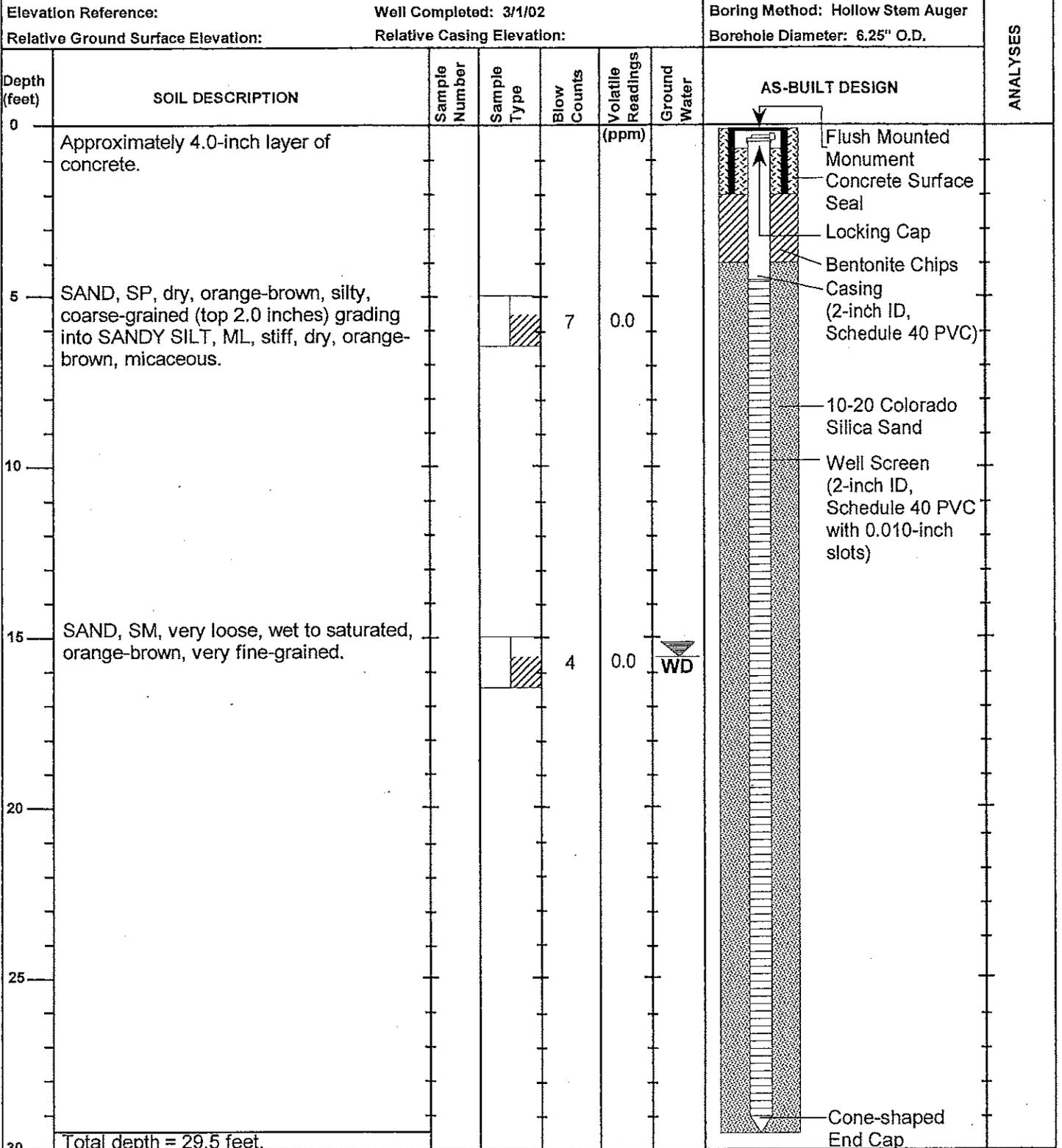
2.0-inch OD split-spoon sample with % recovered

Encountered groundwater level while drilling

PROJECT NUMBER: 2-61M-10135-H

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LEGEND

2.0-inch OD split- spoon sample with % recovered

Encountered groundwater level while drilling

PROJECT NUMBER: 2-61M-10135-H

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						Flush-Mount Monument with Locking Cap
5			GRAVEL (< 1.0 foot).						Concrete
10									Casing (Schedule 40 PVC, 4.0-inch I.D.)
15			Cuttings are wet.						Bentonite Chips (3/4-inch)
20									8-12 Colorado Silica Sand
25			Very GRAVELLY.						Well Screen (Schedule 40 PVC, 4.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)
30			Total depth = 27.0 feet below ground surface.						Flat End Cap

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND.JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT844 DRILLING DATES: 6/18/2003 - 6/18/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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Cadet Manufacturing 3-61M-10135-D T4	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING VE-13 PAGE 1 OF 1
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						Flush-Mount Monument with Locking Cap
5									Concrete
									Casing (Schedule 40 PVC, 4.0-inch I.D.)
									Bentonite Chips (3/4-inch)
									8-12 Colorado Silica Sand
10					9				Well Screen (Schedule 40 PVC, 4.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)
			Asphalt stuck in sampler shoe.		20				
15			Medium dense, dark brown, fine, micaceous SILTY SAND; wet.		18				
20			Medium dense, brown and black, coarse, subangular to subrounded SANDY GRAVEL with little fines; wet.		18				
25									
30			Total depth = 27.0 feet below ground surface.						Flat End Cap

ENVR-WELL BORING REV2 3-91M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 12.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT828

LOGGED BY: B. Lary **DRILLING DATES:** 6/18/2003 - 6/18/2003

REMARKS:

Cadet Manufacturing
3-61M-10135-D T4

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LOG OF BORING
VE-14

DEPTH (ft bgis)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by brown, subrounded SILTY GRAVEL (base course); moist. Brown SILT, trace fine sand; moist.						
5			Sand content increases to some.						
10			Becomes sandy.						
15			Brown, fine to medium SILTY SAND; moist. Becomes wet.						
20			Total depth = 21.0 feet below ground surface.						

ENVR+WELL BORING REV2 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 12.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT829
DRILLING DATES: 6/19/2003 - 6/19/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing

3-61M-10135-D T4

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LOG OF BORIN
 VE-15

PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Vegetation.						Flush-Mount Monument with Locking Cap
5									Concrete
									Casing (Schedule 40 PVC, 4.0-inch I.D.)
									Bentonite Chips (3/4-inch)
									8-12 Colorado Silica Sand
10			Medium stiff, brown SANDY SILT to SILTY SAND; dry.		7				Well Screen (Schedule 40 PVC, 4.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)
15			Wet. Medium dense, dark brown to black, fine, micaceous SILTY SAND; wet.		12		▽		
20			Medium dense, dark brown to black, coarse, subrounded to subangular SANDY GRAVEL with little to trace fines; wet. Very GRAVELLY during drilling.		17				
25									
			Total depth = 26.0 feet below ground surface.						Flat End Cap

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/9/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 12.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT830

LOGGED BY: B. Lary **DRILLING DATES:** 6/18/2003 - 6/18/2003

REMARKS:

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3-61M-10135-D T4

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LOG OF BORING
VE-16
PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						
0-5			Hit old roof drain (3.0-inch green PVC).						
5-20			GRAVEL.						
20-22			Total depth = 22.0 feet below ground surface.						

ENVR-WELL BORING REV2 3-81M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 12.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT831
DRILLING DATES: 7/2/2003 - 7/2/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing
 3-81M-10135-D T4

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LOG OF BORIN
 VE-17

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Vegetation.						Flush-Mount Monument with Locking Cap
5			Brown SANDY SILT (ML); dry.						Concrete
10			Loose, brown, fine, micaceous SILTY SAND (SM); moist.		7				Casing (Schedule 40 PVC, 4.0-inch I.D.)
15			Wet cuttings.		8				Bentonite Chips (3/4-inch)
20			GRAVEL encountered during drilling. Medium dense, brown to black, medium, subrounded to subangular, well-graded SANDY GRAVEL (GW) with little to trace fines; wet.		13				8-12 Colorado Silica Sand
25			Total depth = 26.0 feet below ground surface.						Well Screen (Schedule 40 PVC, 4.0-inch I.D. with 0.020-inch slots)
30									Flat End Cap

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 12.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT832

LOGGED BY: B. Lary **DRILLING DATES:** 6/18/2003 - 6/18/2003

REMARKS:

Cadet Manufacturing

3-61M-10135-D T4

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LOG OF BORING
VE-18

PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Brown SILT, trace fine sand; moist.						
5			Sand increases to some.						
10			Brown, fine to medium SILTY SAND; moist.						
15			Silt decreases to some. Silt decreases to trace; becomes wet.						
20			Total depth = 21.4 feet below ground surface.						

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 12.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG: Mobile B59	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT833	
LOGGED BY: K. Schleh	DRILLING DATES: 6/19/2003 - 6/19/2003	

<p>Cadet Manufacturing</p> <p>3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc.</p> <p>7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p>LOG OF BORING VE-19</p> <p>PAGE 1 OF 1</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Root zone (2.0-inch layer). Brown SILT, trace fine sand; moist.						
5									
10			Medium stiff, brown SILT (ML), trace fine sand; moist.		7				
15			Medium dense, brown, fine to medium SAND (SP), trace silt; moist.		7				
20			Sand grades to dense and clean; becomes wet.				▽		
20			Dense, brown, fine to medium, clean SAND (SP); wet.		15				
25			GRAVEL. No soil cuttings return.						
27.5			Total depth = 27.5 feet below ground surface.						

ENVR+WELL BORING REV2, 3-61M-10135-D-T4.GPJ AMEC-PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 12.0 (in)	GROUND SURFACE ELEVATION:
DRILL RIG: Mobile B59	CASING ELEVATION:
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT834
LOGGED BY: K. Schlieh	DRILLING DATES: 6/20/2003 - 6/20/2003

REMARKS:

<p>Cadet Manufacturing</p> <p>3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc.</p> <p>7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>	<p>LOG OF BORING</p> <p>VE-20</p> <p>PAGE 1 OF 1</p>
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Brown SILT, trace fine sand; moist.						
5									
10			Brown, fine to medium SILTY SAND; moist.						
15			Silt decreases to trace. Becomes wet.						
20									
25									
30			Total depth = 21.0 feet below ground surface.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND.JUNE03.SDT. 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 12.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT835
DRILLING DATES: 6/19/2003 - 6/19/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing

 3-61M-10135-D T4

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 Fax +1 (503) 620-7892



LOG OF BORIN
VE-21

 PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Brown, subrounded, fine to medium SILTY GRAVEL FILL (base course); moist.						
			Brown SILT, some fine sand; moist.						
5			Becomes sandy.						
10			Brown, fine to medium SILTY SAND; moist.						
15			Silt decreases to some; becomes wet.						
20			GRAVEL. No soil cuttings return.						
			Total depth = 21.0 feet below ground surface.						
25									
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT836 DRILLING DATES: 6/19/2003 - 6/19/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORING
 VE-22

PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Gray-brown, subrounded to subangular SILTY GRAVEL FILL; damp. Brown SILT, trace fine sand; moist.						
5			Becomes sandy.						
10			Brown, fine to medium SILTY SAND; moist. Silt content becomes trace.						
15			Becomes wet.						
20			GRAVEL. No cuttings return.						
21.0			Total depth = 21.0 feet below ground surface.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 12.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT837
DRILLING DATES: 6/19/2003 - 6/19/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
VE-23

PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by brown, fine to medium, subrounded to subangular SILTY GRAVEL FILL (base course); moist.						
0-5			Brown SILT, trace fine sand; moist.						
5-10									
10-15			Brown, fine to medium SILTY SAND; moist.						
15-20			Becomes wet. Silt content decreases to trace.						
20-21.0			Top of GRAVEL at 21.0 feet below ground surface.						
21.0-30			Total depth = 21.0 feet below ground surface.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 12.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT838
DRILLING DATES: 6/20/2003 - 6/20/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
VE-24

PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT'N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (3.0-inch layer) underlain by gray, medium, angular GRAVEL FILL (base course); damp. Brown, fine to medium SAND FILL, trace silt; moist.						
5			Brown SILT, trace fine sand; moist.						
10			Brown, fine SAND lense, some silt; moist at 10.0-12.0 feet below ground surface.						
15			Brown, fine to medium SAND, some silt; moist.						
20			Becomes wet.						
22.0			Total depth = 22.0 feet below ground surface.						

ENVIR+WELL BORING REV2 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/9/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 12.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT839
DRILLING DATES: 6/23/2003 - 6/23/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
VE-25
 PAGE 1 OF 1

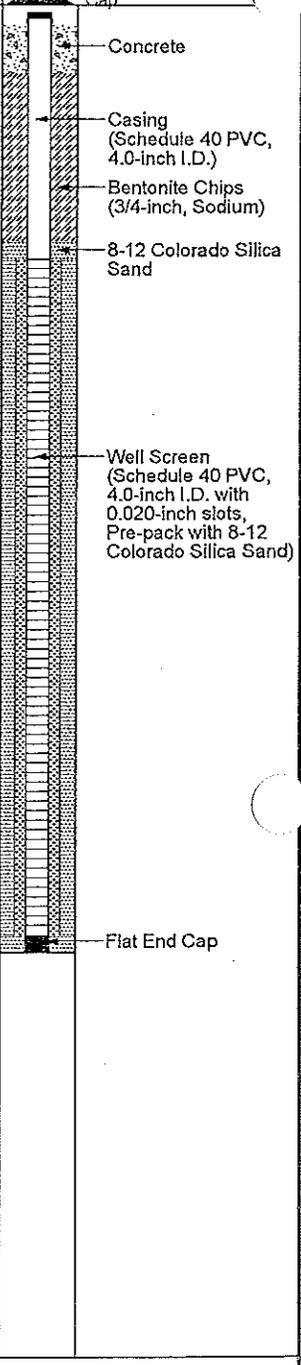
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete pavement (4.0-inch layer) underlain by brown, fine to medium, subrounded to subangular SILTY GRAVEL FILL (base course); moist. Black, fine to medium, subrounded to rounded SANDY GRAVEL; moist. Heavy petroleum-like odors.						
0-5			Brown SILT, trace fine sand; moist.						
5-10			Sand content increases to some.						
10-15			Brown, fine SILTY SAND; moist.						
15-20			Becomes, fine to medium; wet. Silt content decreases to some.						
20-21.0			Total depth = 21.0 feet below ground surface.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND.JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT840 DRILLING DATES: 6/23/2003 - 6/23/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete pavement (4.0-inch layer) underlain by brown, fine to medium, subrounded to subangular SILTY GRAVEL FILL (base course); moist. Brown SILT, trace fine sand; moist.						
5									
10			Brown, fine SILTY SAND; moist.						
15			Silt content decreases to trace.						
20			Becomes wet.						
20			GRAVEL. No soil cuttings return.						
21.0			Total depth = 21.0 feet below ground surface.						

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 12.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG: Mobile B59	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT841	
LOGGED BY: K. Schleh	DRILLING DATES: 6/24/2003 - 6/24/2003	

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Brown SILT, trace fine sand; moist.						
5									
10			Brown, fine SILTY SAND; moist. Silt content decreases to trace.						
15			Sand becomes fine to medium. Becomes wet.				∇		
20									
25									
30			Total depth = 21.0 feet below ground surface.						

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 12.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: Mobile B59 **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT842
LOGGED BY: K. Schleh **DRILLING DATES:** 6/24/2003 - 6/24/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
VE-28

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNED03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete pavement (6.0-inch layer). Brown, fine SILTY SAND FILL (base course); moist. Brown SILT, trace fine sand; moist.						Flush-Mount Steel Monument with Locking Cap
5			Brown, fine SILTY SAND; moist. Becomes fine to medium. Silt content decreases to trace.						Concrete
10									Casing (Schedule 40 PVC, 4.0-inch I.D.)
15			Becomes wet.						Bentonite Chips (3/4-inch, Sodium)
20									8-12 Colorado Silica Sand
25									Well Screen (Schedule 40 PVC, 4.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)
30			Total depth = 21.0 feet below ground surface.						Flat End Cap

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 12.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG: Mobile B59	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT843	
LOGGED BY: K. Schleh	DRILLING DATES: 6/24/2003 - 6/24/2003	

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ENVR+WELL BORING REV2 10/135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

C DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer). Brown, fine to medium, subrounded SILTY GRAVEL FILL (base course); moist. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with Locking Cap
5			Sand content increases to some.						Pea Gravel
10			Brown SANDY SILT; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15			Brown, medium SILTY SAND; wet.						Bentonite Chips (3/4-inch)
20			GRAVEL. No soil cuttings return.						Bentonite Grout (55 gallons)
25									
30									

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 10.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG:	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT801	
LOGGED BY: K. Schleh	DRILLING DATES: 6/10/2003 - 6/10/2003	

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ENVR+WELL BORING REV2 10135D.GPJ_AMEC PORTLAND, JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<ul style="list-style-type: none"> → Casing (Schedule 40 PVC, 2.0-inch I.D.) → Bentonite Chips (3/4-inch) → 8-12 Colorado Silica Sand → Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) → Cone-shaped End Cap
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 10.0 (in)	GROUND SURFACE ELEVATION:
DRILL RIG:	CASING ELEVATION:
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT801
LOGGED BY: K. Schleh	DRILLING DATES: 6/10/2003 - 6/10/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer). Dense, brown, subrounded GRAVEL FILL (0.25-inch to 0.75-inch diameter base course); moist. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with Locking Cap
5									Cement
10			Becomes very moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15			Grades to dark brown SILT, some fine sand.						High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = 10.0 lbs/gal, 150 gallons)
20			Dark brown SILT, some fine sand; moist.						
25			Dark brown, fine to medium SILTY SAND; wet.						
30									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS277
LOGGED BY: K. Schleh, S. Bourcy **DRILLING DATES:** 6/6/2003 - 6/11/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENV/R+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNE03.GDT 10/23/03

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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = 10.0 lbs/gal, 150 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (50 lbs)</p> <p>Rubber Shale Trap</p> <p>Natural Formation Collapsed Around Pre-Pack</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40									
45			GRAVEL						
50			Total depth = 50.0 feet below ground surface.						
55									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS277

LOGGED BY: K. Schleh, S. Bourcy **DRILLING DATES:** 6/6/2003 - 6/11/2003

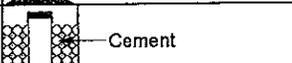
REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

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**LOG OF BORING
 AS-2**

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by GRAVEL FILL (base course).						
0 - 20		ML	Soft, reddish brown SILT with very fine sand.						
20 - 25		SM-SP	Grades to SILTY SAND/SAND at approximately 20.0 feet below ground surface.						
25 - 30		GP-SP	Very dense, gray-brown, medium to coarse, poorly graded SANDY GRAVEL/GRAVELLY SAND with occasional cobbles; saturated.						

ENV/R+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/29/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 11.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT802

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/13/2003 - 6/13/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-3

PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GP, SP							<ul style="list-style-type: none"> ← Casing (Schedule 40 PVC, 2.0-inch I.D.) ← Bentonite Chips (3/4-inch, 950 lbs) ← 8-12 Colorado Silica Sand (250 lbs) ← Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) ← Cone-shaped End Cap
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/29/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 11.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT802

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/13/2003 - 6/13/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-3

PAGE 2 OF 2

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
5									
10									
15									
20			Wet. GRAVELLY.						
25			GRAVEL.						
30									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT803
DRILLING DATES: 6/16/2003 - 6/16/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-4

 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Grout (80 gallons)</p> <p>Bentonite Chips (3/4-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>End Cap</p>
35									
40			Less GRAVEL (smooth drilling).						
45									
50									
55									
60			GRAVELLY.						

Less GRAVEL (smooth drilling).

GRAVELLY.

Total depth = 60.0 feet below ground surface.

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT803

LOGGED BY: B. Lary **DRILLING DATES:** 6/16/2003 - 6/16/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR-WELL BORING REV2 10/35D.GPJ AMEC PORTLAND, JUNE03.GDT 10/23/03

<p>Cadet Manufacturing</p> <p>3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p> 	<p>LOG OF BORIN AS-4</p> <p>PAGE 2 OF 2</p>
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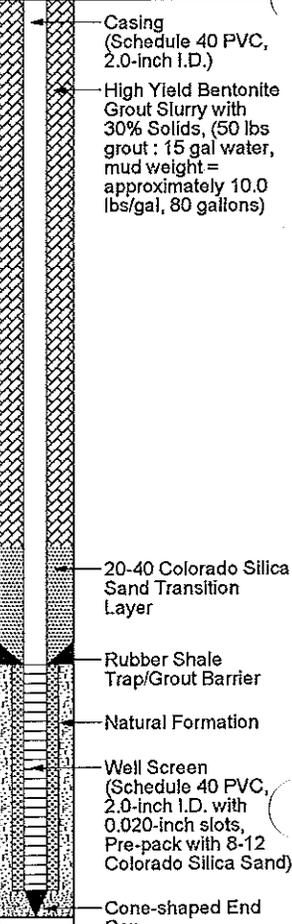
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by sandy crushed rock FILL (base course).						Flush-Mount Monument with Locking Cap
0 - 19.0		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand; moist.						Cement
19.0 - 29.0		SM-SP	SAND/SILTY SAND; moist. Approximately 50-60% red-brown return circulation at 0.0-29.0 feet below ground surface.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
29.0 - 30.0		GW-SW	Very dense, gray-brown, medium to coarse, well-graded SANDY GRAVEL to GRAVELLY SAND; saturated. No circulation return below 29.0 feet below ground surface.						High Yield Bentonite Grout Slurry with 30% Solids, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 80 gallons)

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 6.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS278
LOGGED BY: S. Bourcy **DRILLING DATES:** 6/23/2003 - 6/23/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

<p>Cadet Manufacturing 3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p>LOG OF BORING AS-5 PAGE 1 OF 2</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	Occasional cobbles below 36.0 feet below ground surface. Slow, hard drilling.						 <ul style="list-style-type: none"> → Casing (Schedule 40 PVC, 2.0-inch I.D.) → High Yield Bentonite Grout Slurry with 30% Solids, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 80 gallons) → 20-40 Colorado Silica Sand Transition Layer → Rubber Shale Trap/Grout Barrier → Natural Formation → Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) → Cone-shaped End Cap
35									
40									
45									
50			Total depth = 50.3 feet below ground surface.						
55									
60									

ENVR-WELL BORING REV2-10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/8/03

BORING METHOD: 4-Inch Casing Advancer BOREHOLE DIAMETER: 6.0 (In) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: S. Bourcy	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63796/AHS278 DRILLING DATES: 6/23/2003 - 6/23/2003	REMARKS: Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
0-5			Brown SANDY SILT; dry to moist.						
5-10									
10-15									
15-20									
20-25									
25-30			GRAVEL.						
30-35									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT804 DRILLING DATES: 6/16/2003 - 6/16/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
35			GRAVEL.						
40									
45									
50									
55									
60									
			Total depth = 61.0 feet below ground surface.						
65									
70									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/29/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT804
DRILLING DATES: 6/16/2003 - 6/16/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
 AS-6

C DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer). Brown, subrounded, fine to medium SILTY GRAVEL FILL (base course); moist. Construction debris (red brick) at 3.0 feet below ground surface.						Flush-Mount Steel Monument with Locking Cap
5			Brown SILT, trace fine sand; moist.						Pea Gravel (3/8-inch)
10			Becomes sandy.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15									Bentonite Chips (3/8-inch)
20			Brown, fine to medium SILTY SAND; wet.				▽		
25			Subrounded GRAVEL (0.5-inch to 4.0-inch) to flat, subrounded COBBLES (4.0-inch to 6.0-inch). No soil cuttings return.						
30									Sodium Bentonite Grout (70 gallons)
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT805 DRILLING DATES: 6/13/2003 - 6/13/2003				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.	

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

<p>Cadet Manufacturing</p> <p>3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc.</p> <p>7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p>LOG OF BORING AS-7</p> <p>PAGE 1 OF 2</p>
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READINGS (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Sodium Bentonite Grout (70 gallons)</p> <p>Bentonite Chips (3/8-inch)</p> <p>Bentonite Chips (3/4-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40									
45									
50									
55									
60									

Total depth = 60.0 feet below ground surface.

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT805
DRILLING DATES: 6/13/2003 - 6/13/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
 AS-7
 PAGE 2 OF 2

ENVR+WELL BORING REV2: 10/13/03.D.G.F.J. AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer). Brown, subrounded SILTY GRAVEL FILL (base course); moist.						Flush-Mount Monument with Locking Cap
			Brown SILT/SAND. No cutting return.						Cement
5									Casing (Schedule 40 PVC, 2.0-inch I.D.)
10									Baroid Quick Grout, (50 lbs grout : 15 gal water, 92 gallons)
15									
20									
25									
30			GRAVEL. No soil cuttings return.						

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNE03.GDT 11/8/03

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS279
LOGGED BY: K. Schleh **DRILLING DATES:** 6/11/2003 - 6/11/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45									
50			Total depth = 50.0 feet below ground surface.						
55									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNED03.GDT 11/9/03

BORING METHOD: 4-Inch Casing Advancer
BOREHOLE DIAMETER: 5.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63796/AHS279
DRILLING DATES: 6/11/2003 - 6/11/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-8
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						
5			Brown CLAYEY SILT; dry.						
10			Moist by 9.0-10.0 feet below ground surface.						
15			Becoming sandy; wet.				▽		
20									
25			GRAVEL.						
30									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT806

LOGGED BY: D. Hetherington **DRILLING DATES:** 6/12/2003 - 6/12/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-9

PAGE 1 OF 2

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
45									
50									
55									
60									

Total depth = 41.5 feet below ground surface.

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: D. Hetherington	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT806 DRILLING DATES: 6/12/2003 - 6/12/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer). Brown, subrounded SILTY GRAVEL FILL (base course); moist.						Flush-Mount Monument with Locking Cap
			Brown SILT, trace fine sand; moist.						Pea Gravel (3/8-inch)
5									Casing (Schedule 40 PVC, 2.0-inch I.D.)
10									Bentonite Chips (3/4-inch, Sodium)
15			Brown, fine to medium SILTY SAND; moist.						
20			Becomes wet.				▽		
25			GRAVEL. No soil cuttings return.						
30									

BORING METHOD: Hollow Stem Auger

BOREHOLE DIAMETER: 10.0 (in)

DRILL RIG:

CONTRACTOR: Geo-Tech Explorations

LOGGED BY: K. Schleh

ELEVATION REFERENCE:

GROUND SURFACE ELEVATION:

CASING ELEVATION:

START CARD/TAG ID: R63797/AHT807

DRILLING DATES: 6/10/2003 - 6/11/2003

REMARKS:

No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

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LOG OF BORING
AS-10

PAGE 1 OF 2

ENVR-WELL BORING REV2 10/135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch, Sodium)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT807

LOGGED BY: K. Schleh **DRILLING DATES:** 6/10/2003 - 6/11/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-10

PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (1.5-inch layer) underlain by crushed rock FILL (base course).						
5			Soft, brown to reddish brown SILT (ML) with some very fine sand. Approximately 30% reddish brown return circulation from 3.0-25.0 feet below ground surface.						
10									
15									
20									
25									
30									

BORING METHOD: 4-Inch Casing Advancer
BOREHOLE DIAMETER: 5.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63796/AHS280
DRILLING DATES: 6/12/2003 - 6/12/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENV/R+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

<p>Cadet Manufacturing 3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p> 	<p>LOG OF BORING AS-11 PAGE 1 OF 2</p>
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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			No circulation below 30.0 feet below ground surface.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout Slurry, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 77 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
			SANDY GRAVEL (angled length approximately 26.0-27.0 feet.)						
35			Slower drilling from 33.0-50.0 feet below ground surface.						
40									
45									
50			Larger GRAVEL and COBBLES encountered.						
55									
60			Total depth = 50.5 feet below ground surface.						

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS280

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/12/2003 - 6/12/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer). Brown, fine to medium, subrounded SILTY GRAVEL FILL (base course); moist. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with Locking Cap
									Pea Gravel (3/8-inch)
5									Casing (Schedule 40 PVC, 2.0-inch I.D.)
									Bentonite Chips (3/4-inch, Sodium)
10			Brown, fine to medium SILTY SAND; moist.						
15			Becomes wet.				▽		
20									
25			GRAVEL. No soil cuttings return.						
30									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT808 DRILLING DATES: 6/20/2003 - 6/20/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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ENVR-WELL BORING REV2 10/35D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
45									
			Total depth = 46.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT808 DRILLING DATES: 6/20/2003 - 6/20/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READINGS (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (1.5-inch layer) underlain by sandy crushed rock FILL (base course).						Flush-Mount Monument with Locking Cap
0 - 15		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand; moist. Circulation approximately 70%.						Cement
15 - 25		SP-SM	Grades to SAND/SILTY SAND.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
25 - 30		GW-SW	Very dense, gray-brown, medium to coarse, well-graded to moderately graded, alluvial SANDY GRAVEL to GRAVELLY SAND; saturated. No circulation below 25.0 feet below ground surface.						High Yield Bentonite Grout Slurry with 30% Solids, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 90 gallons)

ENVIR-WELL BORING REV2_10135D.GPJ AMEC PORTLAND.JUNE03.GDT_10/23/03

BORING METHOD: 4-Inch Casing Advancer BOREHOLE DIAMETER: 5.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: S. Bourcy	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63796/AHS281 DRILLING DATES: 6/24/2003 - 6/24/2003	REMARKS: Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	Occasional cobbles below 30.0 feet below ground surface.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout Slurry with 30% Solids, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 90 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35			Very slow drill rate at 31.0 feet below ground surface.						
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS281
LOGGED BY: S. Bourcy **DRILLING DATES:** 6/24/2003 - 6/24/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/8/03

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by (base course).						
5			Soft, reddish brown SILT with some very fine sand. Approximately 30-50% return circulation.						
10									
15									
20			Possible SAND/SILTY SAND contact. Return circulation color changes to gray-brown; only 10% return.						
25									
30									

BORING METHOD: 4-inch Casing Advancer

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 5.0 (in)

GROUND SURFACE ELEVATION:

DRILL RIG:

CASING ELEVATION:

CONTRACTOR: Geo-Tech Explorations

START CARD/TAG ID: R63796/AHS282

LOGGED BY: S. Bourcy

DRILLING DATES: 6/13/2003 - 6/13/2003

REMARKS:

Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVYR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNE03.GDT 11/6/03

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LOG OF BORING
AS-14

PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			No circulation below 31.0 feet (angled length) below ground surface.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout Slurry, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 170 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35			Very dense, coarse, alluvial SANDY GRAVEL and occasional cobbles.						
40									
45									
50			Total depth = 50.0 feet below ground surface.						
55									
60									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNE03.GDT 11/8/03

BORING METHOD: 4-inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS282

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/13/2003 - 6/13/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

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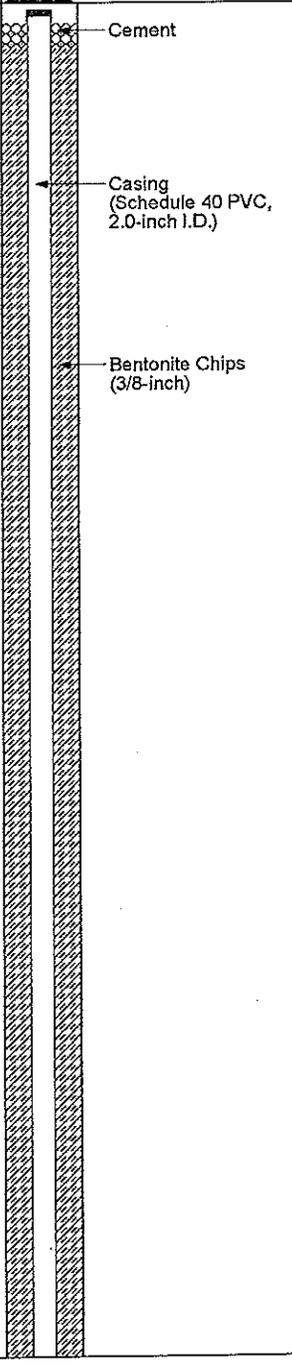
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LOG OF BORIN
AS-14

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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
0 - 20			Brown SANDY SILT; dry.						
20 - 30			GRAVEL.						

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT809
DRILLING DATES: 6/16/2003 - 6/16/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing

 3-61M-10135-D T4

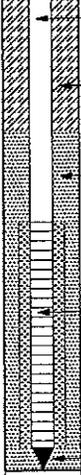
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LOG OF BORING
AS-15

 PAGE 1 OF 2

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									 <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT809
DRILLING DATES: 6/16/2003 - 6/16/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-15

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by GRAVEL FILL (base course).						Flush-Mount Monument with Locking Cap
			Brown CLAYEY SILT; dry (from cuttings).						Gravel
5			Chunk of asphalt in end of sampler.		8				Casing (Schedule 40 PVC, 2.0-inch I.D.)
			Cuttings become moist.						
10			Soft, brown, micaceous, fine SANDY SILT; moist.		8				Bentonite Grout (~75 gallons)
15			Loose, gray-brown, fine SAND with silt; wet to saturated.		19				
			Sand has less silt content (fairly clean). SILTY SAND layer (1.0-inch) at approximately 18.5 feet below ground surface.		8				
20			Loose, salt and pepper colored, medium SAND with pebbles and gravel (up to 1.0-inch); wet. Pebbles and gravel primarily in last 6.0 inches of sample.		6				
			Dense, gray-black, coarse SANDY GRAVEL; wet. Basalt gravel in end of sampler.		50				
25			End sampling.						

ENVR-WELL BORING REV/2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT810

LOGGED BY: D. Hetherington **DRILLING DATES:** 6/11/2003 - 6/11/2003

REMARKS:

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LOG OF BORING
AS-16

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Grout (~75 gallons) Bentonite Chips 8-12 Colorado Silica Sand (200 lbs) Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT810
LOGGED BY: D. Hetherington **DRILLING DATES:** 6/11/2003 - 6/11/2003

REMARKS:

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND_JUNE03.GDT 10/23/03

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LOG OF BORING
AS-16

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt pavement (2.0-inch layer) underlain by silty sandy crushed rock FILL (base course).						
2.0		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand; moist.						
10.5			Total depth = 10.5 feet below ground surface.						

ENVR+WELL BORING REV2 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:**
LOGGED BY: S. Bourcy **DRILLING DATES:** 7/18/2003 - 7/18/2003

REMARKS:
 Lithology logged by drilling character and cuttings return. No discrete soil samples collected.

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LOG OF BORING
MP-1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt pavement underlain by silty sandy crushed rock FILL (base course).						
0 to 10.5		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand.						
10.5 to 30			Total depth = 10.5 feet below ground surface.						

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID:
DRILLING DATES: 7/18/2003 - 7/18/2003

REMARKS:
 Lithology logged by drilling character and cuttings return. No discrete soli samples collected.

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LOG OF BORIN
 MP-2

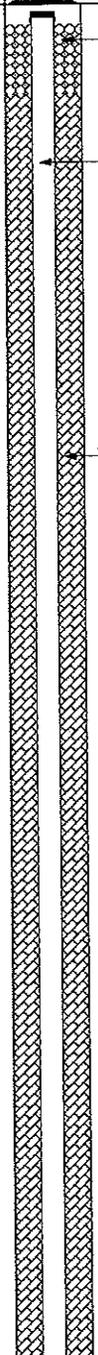
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt pavement (1.5-inch layer) underlain by sandy crushed rock FILL (base course).						
0 to 10.5		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand; moist.						
10.5			Total depth = 10.5 feet below ground surface.						

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: Lithology logged by drilling character and cuttings return. No discrete soil samples collected.
BOREHOLE DIAMETER: 10.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG:	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID:	
LOGGED BY: S. Bourcy	DRILLING DATES: 7/18/2003 - 7/18/2003	

ENVR+WELL_BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND, JUNE03.GDT 12/5/03

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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by sandy crushed rock FILL (base course).						
5		ML	Soft to medium stiff, reddish brown CLAYEY SILT with very fine sand (approximately 5-10%); moist. Reddish brown return water, approximately 50% circulation from 2.5-28.0 feet below ground surface.						
10									
15									
20									
25									
30									

BORING METHOD: 4-Inch Casing Advancer
 BOREHOLE DIAMETER: 5.0 (in)
 DRILL RIG:
 CONTRACTOR: Geo-Tech Explorations
 LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION:
 CASING ELEVATION:
 START CARD/TAG ID: R63796/AHS283
 DRILLING DATES: 6/16/2003 - 6/16/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
 AS-17

PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		ML	Return water color changes to gray, approximately 20% circulation at 30.0 feet below ground surface.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 120 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35		GW-SW	Very dense, gray-brown, medium to coarse, well-graded, alluvial SANDY GRAVEL to GRAVELLY SAND; saturated. No circulation and slower drilling below 32.0 feet below ground surface.						
40			Very coarse GRAVEL and COBBLES encountered at 38.0 feet below ground surface. Gravel content decreasing slightly (GRAVELLY SAND).						
45									
50			Total depth = 50.0 feet below ground surface.						
55									
60									

BORING METHOD: 4-Inch Casing Advancer
BOREHOLE DIAMETER: 5.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63796/AHS283
DRILLING DATES: 6/16/2003 - 6/16/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL_BORING REV2_10135D.GPJ_AMEC PORTLAND_JUNE03.GDT 11/6/03

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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND, JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
-			Brown SANDY SILT; dry.						
5									
10									
15									
20									
25									
30									

<p>BORING METHOD: Hollow Stem Auger</p> <p>BOREHOLE DIAMETER: 10.0 (in)</p> <p>DRILL RIG:</p> <p>CONTRACTOR: Geo-Tech Explorations</p> <p>LOGGED BY: B. Lary</p>	<p>ELEVATION REFERENCE:</p> <p>GROUND SURFACE ELEVATION:</p> <p>CASING ELEVATION:</p> <p>START CARD/TAG ID: R63797/AHT811</p> <p>DRILLING DATES: 6/16/2003 - 6/16/2003</p>	<p>REMARKS:</p> <p>No discrete soil samples collected. Lithology logged by drilling character/resistance.</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			GRAVEL.						<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT811 DRILLING DATES: 6/16/2003 - 6/16/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course). Brown CLAYEY SILT; dry.						
5									
10									
15			Grading into fine SAND with silt. Appears wet at 16.0 feet below ground surface.						
20			GRAVEL.						
25									
30									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: D. Hetherington	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT812 DRILLING DATES: 6/11/2003 - 6/11/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/23/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: D. Hetherington	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT812 DRILLING DATES: 6/11/2003 - 6/11/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (1.5-inch layer) underlain by sandy crushed rock FILL (base course).						Flush-Mount Monument with Locking Cap
0 to 28		ML	Soft grading to medium stiff, reddish brown, oxidized CLAYEY SILT with some very fine sand. No circulation - washing out into formation.						Cement
0 to 28									Casing (Schedule 40 PVC, 2.0-inch I.D.)
0 to 28									High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = 10.0 lbs/gal, 120 gallons)
28 to 30		GW-SW	Very dense, gray-brown, medium to coarse, well-graded, alluvial SANDY GRAVEL to GRAVELLY SAND; saturated.						

BORING METHOD: 4-Inch Casing Advancer

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 5.0 (in)

GROUND SURFACE ELEVATION:

DRILL RIG:

CASING ELEVATION:

CONTRACTOR: Geo-Tech Explorations

START CARD/TAG ID: R63796/AHS284

LOGGED BY: S. Bourcy

DRILLING DATES: 6/16/2003 - 6/17/2003

REMARKS:

Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

ENVYR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND.JUNE03.GDT 10/30/03

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LOG OF BORING
AS-20

3-61M-10135-D T4

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	Slower/harder drilling below 30.0 feet below ground surface. No circulation - water displacing into formation.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = 10.0 lbs/gal, 120 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35			Occasional cobbles encountered below 32.0 feet below ground surface.						
40			Cobble/boulder (12.0-inch) encountered at 39.0-40.0 feet below ground surface.						
45									
50									
55			Total depth = 50.5 feet below ground surface.						
60									

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

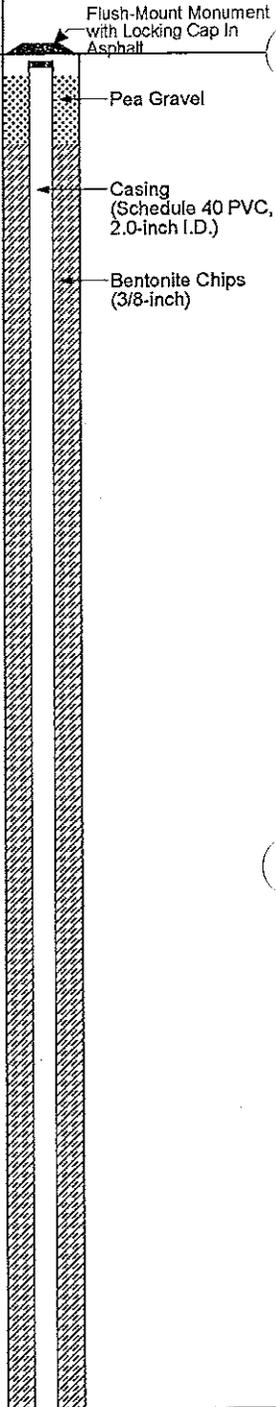
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS284

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/16/2003 - 6/17/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
5									
10									
15									
20			Wet. Gravelly.						
25									
30									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (In)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT813
DRILLING DATES: 6/17/2003 - 6/17/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35			Very gravelly.						
40			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT813
DRILLING DATES: 6/17/2003 - 6/17/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt over GRAVEL FILL (base course).						
5			Brown, micaceous CLAYEY SILT; dry to moist.						
10			Moisture increases at 9.0-10.0 feet below ground surface.						
15			Fine SANDY SILT; becoming wet.						
20			GRAVEL encountered at approximately 22.0 feet below ground surface.						
25									
30									

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUN03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT814
DRILLING DATES: 6/11/2003 - 6/11/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/29/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT814
DRILLING DATES: 6/11/2003 - 6/11/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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**LOG OF BORING
 AS-22**

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by sandy crushed rock FILL (base course).						
0-17.0		ML	Reddish brown, approximately 40% circulation return from 0.0-17.0 feet below ground surface.						
17.0-30		SM	SAND/SILTY SAND. No circulation return below 17.0 feet below ground surface.						
30		GW-SW	Very dense, gray-brown, medium to coarse, well-graded SANDY GRAVEL to GRAVELLY SAND; saturated.						

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: 4-inch Casing Advancer **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS285
LOGGED BY: S. Bourcy **DRILLING DATES:** 6/17/2003 - 6/18/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	Occasional cobbles encountered below 34.0 feet below ground surface. Harder, slower drilling.						<ul style="list-style-type: none"> ← Casing (Schedule 40 PVC, 2.0-inch I.D.) ← High Yield Bentonite Grout, (50 lbs grout : 15 gal water, mud weight = approximately 10.0 lbs/gal, 144 gallons) ← 20-40 Colorado Silica Sand Transition Layer ← Rubber Shale Trap/Grout Barrier ← Natural Formation ← Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) ← Cone-shaped End Cap
35			Back water pressure noted, drill rate dropped drastically - may be a worn or broken core bit.						
40									
45									
50									
			Total depth = 51.0 feet below ground surface.						
55									
60									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/8/03

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS285
LOGGED BY: S. Bourcy **DRILLING DATES:** 6/17/2003 - 6/18/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-23

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by brown, fine to medium, subrounded SILTY GRAVEL FILL (base course); moist.						Flush-Mount Monument with Locking Cap
			Brown SILT, trace fine sand; moist.						Pea Gravel (3/8-inch)
5			Becomes SANDY SILT.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
									Bentonite Chips (3/8-inch, Sodium)
10									
			Brown, fine to medium SILTY SAND; moist.						
15			Silt decreases to trace; wet.						
20									
			GRAVEL. No soil cuttings return.						
25									
30									Bentonite Chips (3/4-inch, Sodium)

ENVR+WELL BORING REVZ 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT815
DRILLING DATES: 6/13/2003 - 6/13/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
45									
50									
55									
60			Total depth = 41.0 feet below ground surface.						

BORING METHOD: Hollow Stem Auger

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 10.0 (in)

GROUND SURFACE ELEVATION:

DRILL RIG:

CASING ELEVATION:

CONTRACTOR: Geo-Tech Explorations

START CARD/TAG ID: R63797/AHT815

LOGGED BY: K. Schleh

DRILLING DATES: 6/13/2003 - 6/13/2003

REMARKS:

No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUN03.GDT 10/30/03

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LOG OF BORING
AS-24

3-61M-10135-D T4

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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						
5			Brown, micaceous CLAYEY SILT; dry.						
15			SANDY SILT; moist. SILTY SAND/SANDY SILT; wet by 15.0-16.0 feet below ground surface.						
20			GRAVEL.						
25									
30									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT816
LOGGED BY: D. Hetherington **DRILLING DATES:** 6/11/2003 - 6/11/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-25
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUN03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT816
DRILLING DATES: 6/11/2003 - 6/11/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-25

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) underlain by crushed rock FILL (base course).						Flush-Mount Monument with Locking Cap
0-5		ML	Medium stiff, reddish brown, oxidized CLAYEY SILT with trace very fine sand; moist.						Temporary Gravel and Metal Plate
5-20		SP-SM	Grades to gray SAND/SILTY SAND. Approximately 70% circulation return.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
20-30			GRAVEL encountered during drilling. No circulation below 29.0 feet below ground surface.						High Yield Bentonite Grout with 30% Solids, (Approximately 90 gallons)

ENVR-WELL BORING REV2-10135D.GPJ AMEC PORTLAND JUNED03.GDT 10/30/03

BORING METHOD: 4-inch Casing Advancer **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS286
LOGGED BY: S. Bourcy, B. Lary **DRILLING DATES:** 6/24/2003 - 6/25/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-26

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SP- SM	Occasional cobbles. Slower drilling.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout with 30% Solids, (Approximately 90 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40									
45			COBBLES. Large GRAVEL/COBBLES.						
50									
55									
60			Total depth = 51.0 feet below ground surface.						

BORING METHOD: 4-Inch Casing Advancer

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 5.0 (in)

GROUND SURFACE ELEVATION:

DRILL RIG:

CASING ELEVATION:

CONTRACTOR: Geo-Tech Explorations

START CARD/TAG ID: R63796/AHS286

LOGGED BY: S. Bourcy, B. Lary

DRILLING DATES: 6/24/2003 - 6/25/2003

REMARKS:

Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

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LOG OF BORING
AS-26

3-61M-10135-D T4

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.					Flush-Mount Monument with Locking Cap	
5								Cement	
10								Casing (Schedule 40 PVC, 2.0-inch I.D.)	
15			Cuttings coming up wet.				▽	Bentonite Chips (3/8-inch)	
20			Gravelly.						
25			Heaving SAND. Easy drilling.						
30									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT817

LOGGED BY: B. Lary **DRILLING DATES:** 6/17/2003 - 6/17/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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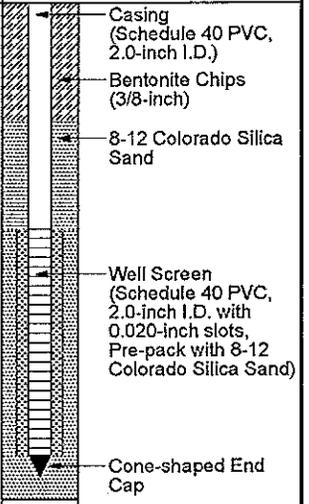
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LOG OF BORING
AS-27

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ENVIR+WELL BORING REV2_10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

30 DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									 <p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35			Large GRAVEL/COBBLES.						
40									
			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 10.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG:	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT817	
LOGGED BY: B. Lary	DRILLING DATES: 6/17/2003 - 6/17/2003	

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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

C DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) with vapor barrier. Gray, medium SAND FILL underlain by brown, fine to medium, subangular to angular SILTY GRAVEL FILL (base course); moist. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with Locking Cap
5			Brown, fine SILTY SAND; moist.						Pea Gravel (3/8-inch)
10			Silt content decreases to some.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15			Silt content decreases to trace. Becomes fine to medium SAND; wet.				▽		Bentonite Chips (3/4-inch, Sodium)
20			GRAVEL. No soil cuttings return.						
25									
30									

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 10.0 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG:	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63795/AHS247	
LOGGED BY: K. Schleh	DRILLING DATES: 6/30/2003 - 6/30/2003	

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS247
LOGGED BY: K. Schleh **DRILLING DATES:** 6/30/2003 - 6/30/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

Cadet Manufacturing

 3-61M-10135-D T4

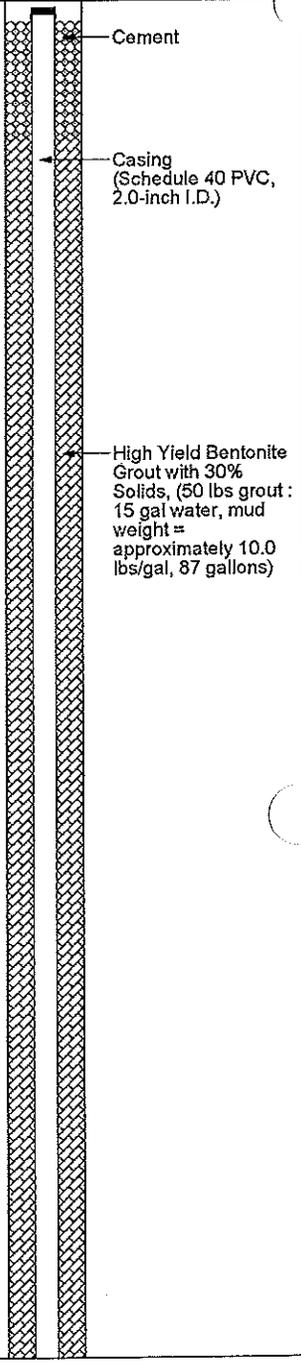
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LOG OF BORING
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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND_JUNE03.GDT 10/30/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by sandy crushed rock FILL (base course).						
0 - 20		ML	Soft grading to medium stiff, reddish brown CLAYEY SILT with very fine sand (10%); moist.						
20 - 28		SP-SM	Grades to SAND/SILTY SAND; saturated.						
28 - 30		GW-SW	Very dense, gray-brown, medium to coarse, well-graded SANDY GRAVEL to GRAVELLY SAND; saturated. Approximately 50% circulation return from 0.0-28.0 feet below ground surface. No circulation below 28.0 feet below ground surface.						

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS287

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/19/2003 - 6/19/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	COBBLES. Very hard, slow drilling below 35.0 feet below ground surface.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = Approximately 10.0 lbs/gal, 87 gallons)</p> <p>20-40 Colorado Silica Sand Transition Layer (25 lbs)</p> <p>Rubber Shale Trap/Grout Barrier</p> <p>Natural Formation</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
50			Total depth = 50.5 feet below ground surface.						
55									
60									

BORING METHOD: 4-Inch Casing Advancer BOREHOLE DIAMETER: 5.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: S. Bourcy	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63796/AHS287 DRILLING DATES: 6/19/2003 - 6/19/2003	REMARKS: Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.
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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						Flush-Mount Monument with Locking Cap
0-5			Brown SANDY SILT; dry.						Cement
5-10									Casing (Schedule 40 PVC, 2.0-inch I.D.)
10-15									Bentonite Chips (3/8-inch)
15-20			Cuttings are wet.				▽		
20-25			GRAVEL encountered during drilling.						Bentonite Grout (40 gallons)
25-30									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT818
LOGGED BY: B. Lary **DRILLING DATES:** 6/17/2003 - 6/17/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Grout (40 gallons) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

ENVIR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND, JUNE03, GDT, 10/30/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT818 DRILLING DATES: 6/17/2003 - 6/17/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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ENVIR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						
5			Brown, micaceous CLAYEY SILT; dry.						
8			Moist at approximately 8.0 feet below ground surface.						
15			Soils appear wet at approximately 15.0 feet below ground surface. Some sand.				▽		
20			GRAVEL.						
25									
30									

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 10.0 (in)
 DRILL RIG:
 CONTRACTOR: Geo-Tech Explorations
 LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION:
 CASING ELEVATION:
 START CARD/TAG ID: R63797/AHT819
 DRILLING DATES: 6/12/2003 - 6/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
 AS-31

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT819
LOGGED BY: D. Hetherington **DRILLING DATES:** 6/12/2003 - 6/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by sandy crushed rock FILL (base course).						Flush-Mount Monument with Locking Cap
0 - 20		ML	Medium stiff, reddish brown CLAYEY SILT with trace very fine sand.						Cement
20 - 28		SP-SM	SAND/SILTY SAND.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
28 - 30		GW-SW	Very dense, gray-brown, medium to coarse, well-graded SANDY GRAVEL to GRAVELLY SAND; saturated. Approximately 50-60% circulation return from 0.0-28.0 feet below ground surface. No circulation return below 28.0 feet below ground surface.						High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = 10.0 lbs/gal, 105 gallons)

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS288

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/20/2003 - 6/20/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	Occasional cobbles. Hard, slow drilling below 34.0 feet below ground surface.						<ul style="list-style-type: none"> ← Casing (Schedule 40 PVC, 2.0-inch I.D.) ← High Yield Bentonite Grout with 30% Solids, (50 lbs grout : 15 gal water, mud weight = 10.0 lbs/gal, 105 gallons) ← 20-40 Colorado Silica Sand Transition Layer ← Rubber Shale Trap/Grout Barrier ← Natural Formation ← Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) ← Cone-shaped End Cap
35									
40									
45									
50			Total depth = 50.5 feet below ground surface.						
55									
60									
BORING METHOD: 4-Inch Casing Advancer ELEVATION REFERENCE: BOREHOLE DIAMETER: 5.0 (in) GROUND SURFACE ELEVATION: DRILL RIG: CASING ELEVATION: CONTRACTOR: Geo-Tech Explorations START CARD/TAG ID: R63796/AHS288 LOGGED BY: S. Bourcy DRILLING DATES: 6/20/2003 - 6/20/2003				REMARKS: Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.					

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			GRAVEL						
5									
10									
15			Cuttings are wet.				▽		
20			GRAVEL encountered during drilling.						
25									
30									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger
BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT820
DRILLING DATES: 6/17/2003 - 6/17/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Large GRAVEL.						
			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT820
DRILLING DATES: 6/17/2003 - 6/17/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

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LOG OF BORING
AS-33

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			GRAVEL.						Flush-Mount Monument with Locking Cap
0-5									Pea Gravel
5			Soft, brown, micaceous CLAYEY SILT; dry to moist. SILTY CLAY (1.0-inch layer) at approximately 6.0 feet below ground surface.		6				Casing (Schedule 40 PVC, 2.0-inch I.D.)
5-10									Bentonite Chips (3/4-inch)
10			Soft, brown, fine SANDY SILT with less clay content; dry. Sand content increasing with depth.		6				
10-15									
15			Medium stiff, gray-brown, fine SANDY SILT, some interbedded loose, gray, fine SAND with silt; wet. Interbedding noted at approximately 15.5 and 16.25-16.5 feet below ground surface.		11				
15-20									
20			Loose, gray, micaceous, fine SAND with some silt; wet. No silt layering noted.		12				
20-25									
25			Loose, predominately gray (slightly salt and pepper colored), micaceous, fine SAND, few fines; wet. Coarseness increasing with depth. Small pebbles present at 21.0-21.5 feet below ground surface.		12				
25-30			Dense, gray, fine SAND, very few fines; wet transitioning to medium to coarse SAND with pebbles. Rounded, basalt gravel in sampler shoe at approximately 23.5 feet below ground surface. GRAVEL. End of sampling.		32				

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUN03.GDT 11/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT821

LOGGED BY: D. Hetherington **DRILLING DATES:** 6/12/2003 - 6/12/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
45			Total depth = 43.5 feet below ground surface.						
50									
55									
60									

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT821
DRILLING DATES: 6/12/2003 - 6/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Grass. Brown SANDY SILT; dry.						
5									
10									
15									
20									
25			GRAVEL encountered during drilling.						
30									

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 10.0 (In)	GROUND SURFACE ELEVATION:
DRILL RIG:	CASING ELEVATION:
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63797/AHT822
LOGGED BY: B. Lary	DRILLING DATES: 6/17/2003 - 6/17/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing

3-61M-10135-D T4

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LOG OF BORING
AS-35

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Grout (50 gallons) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
45									
50									
55									
60									

Total depth = 41.0 feet below ground surface.

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary
ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT822
DRILLING DATES: 6/17/2003 - 6/17/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

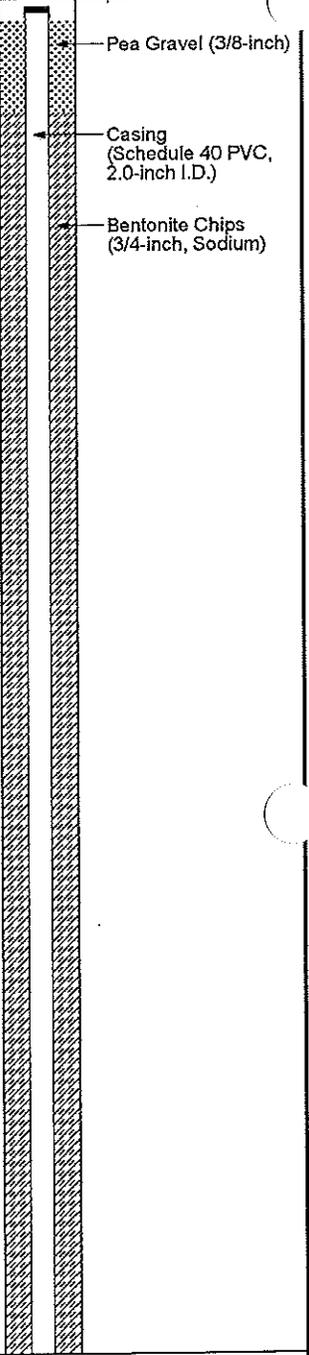
ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

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LOG OF BORING
AS-35

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Brown SILT, trace fine sand; moist.						
5									
10			Becomes SANDY SILT.						
15			Brown, fine SILTY SAND; moist.						
20			Becomes wet.				▽		
25			GRAVEL. No soil cuttings return.						
30									

ENVR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT823
LOGGED BY: K. Schleh **DRILLING DATES:** 6/23/2003 - 6/23/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-36

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

ENVR-WELL BORING REV2 10195D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 3.5 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT823 DRILLING DATES: 6/23/2003 - 6/23/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Gray-brown, fine to medium, subrounded to subangular SILTY GRAVEL FILL; moist. Brown SILT, trace fine sand; moist.						Flush-Mount Steel Monument with Locking Cap Pea Gravel (3/8-inch) Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium)
5									
10			Becomes SANDY SILT.						
15			Brown, fine SILTY SAND; moist.						
20			Becomes fine to medium; wet. Silt content decreases to trace.				▽		
25			GRAVEL. No soil cuttings return.						
30									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.5 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT824
DRILLING DATES: 6/23/2003 - 6/23/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-37
 PAGE 1 OF 2

ENVIR-WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 11/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.5 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT824 DRILLING DATES: 6/23/2003 - 6/23/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03 Cadet Manufacturing 3-61M-10135-D T4	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING AS-37 PAGE 2 OF 2
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Grass.						Flush-Mount Monument with Locking Cap
0-5			Brown CLAYEY SILT with minor sand; dry to moist.						Pea Gravel
5-10			Moist at approximately 12.0-13.0 feet below ground surface.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
10-15			Fine SAND; wet at approximately 15.0 feet below ground surface.						Bentonite Chips (3/4-inch)
15-20							▽		Native Soil
20-25			GRAVEL.						Bentonite Chips (3/4-inch)
25-30									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.0 (in)
DRILL RIG:
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT825
DRILLING DATES: 6/12/2003 - 6/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNED03.GDT 11/6/03
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LOG OF BORING
AS-38
 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
36									
40									
45			Total depth = 43.5 feet below ground surface.						
50									
55									
60									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: D. Hetherington				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT825 DRILLING DATES: 6/12/2003 - 6/12/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

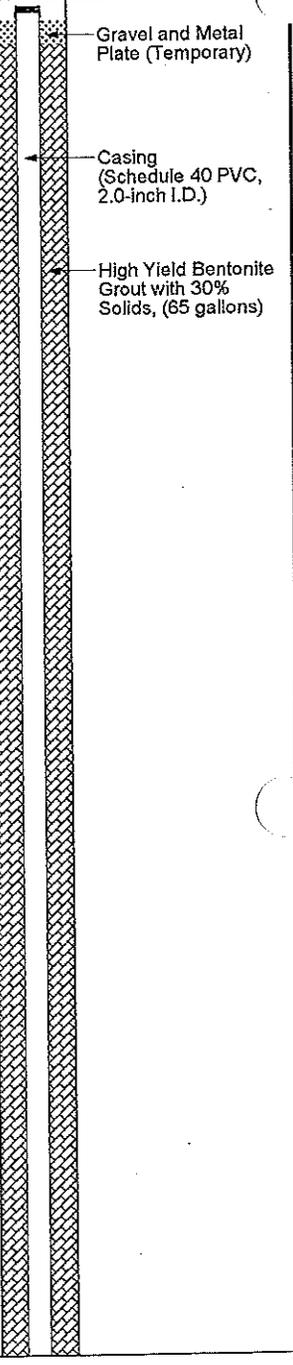
ENVR+WELL BORING REV2 10195D.GPJ AMEC PORTLAND JUNE03.GDT 10/30/03

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LOG OF BORING
AS-38

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Grass.						 <p>Flush-Mount Monument with Locking Cap</p> <p>Gravel and Metal Plate (Temporary)</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>High Yield Bentonite Grout with 30% Solids, (65 gallons)</p>
5									
10									
15									
20									
25									
30									

ENVR+WELL BORING REV2 10135D.GPJ AMEC PORTLAND JUNE03.SDT 10/30/03

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63796/AHS289

LOGGED BY: B. Lary, S. Bourcy **DRILLING DATES:** 6/25/2003 - 6/25/2003

REMARKS:
 Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-39

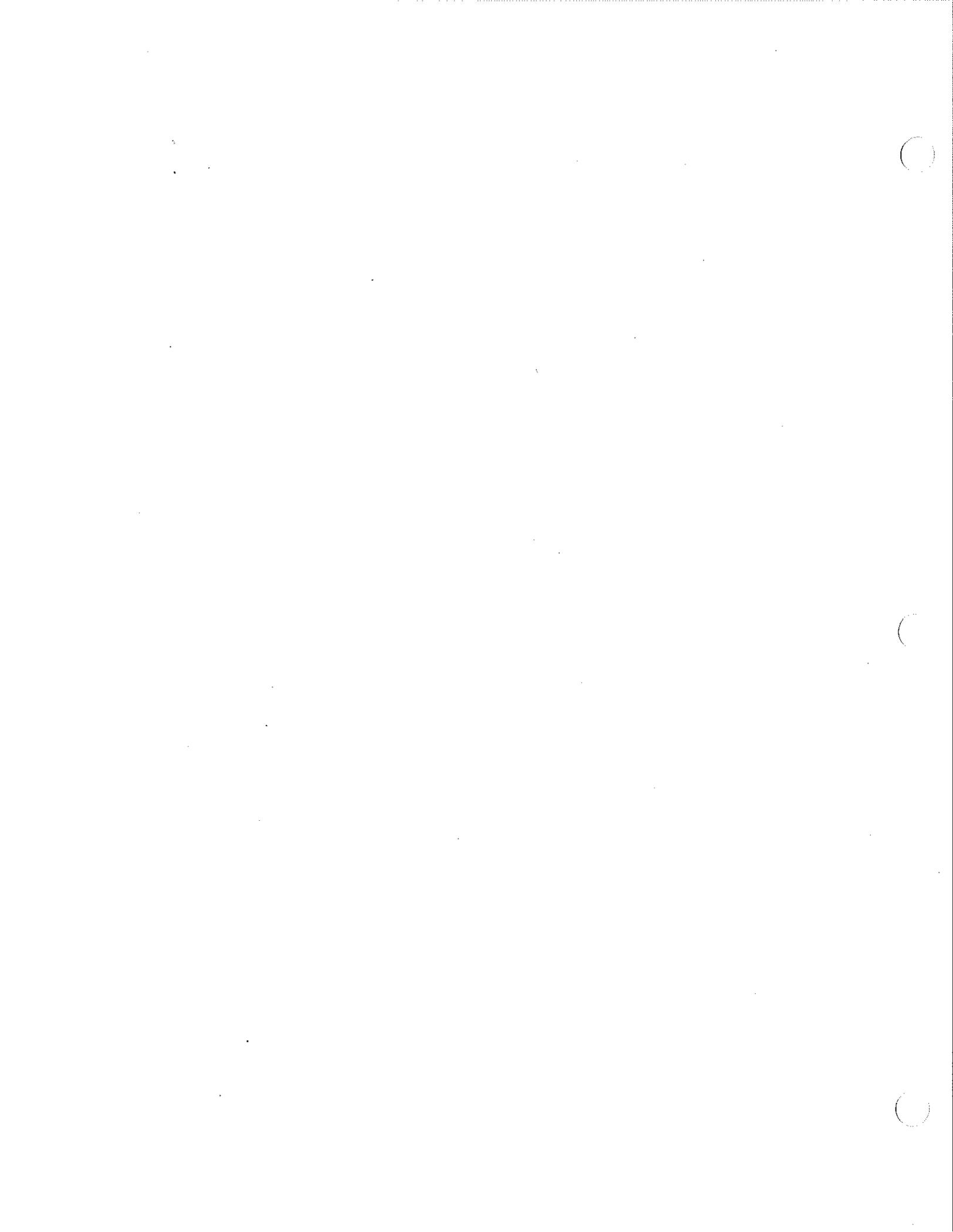
 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			Encountered GRAVEL during drilling.						<p>Labels in Well Schematic: - Casing (Schedule 40 PVC, 2.0-inch I.D.) - High Yield Bentonite Grout with 30% Solids, (65 gallons) - 20-40 Colorado Silica Sand Transition Layer - Rubber Shale Trap/Grout Barrier - Natural Formation - Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) - Cone-shaped End Cap</p>
			Large cobble/boulder.						
35									
40			Very slow drilling from 40.0-50.0 feet below ground surface.						
45									
50			Total depth = 50.5 feet below ground surface.						
55									
60									

ENVR+WELL BORING REV2_10135D.GPJ AMEC PORTLAND_JUNE03.GDT 11/6/03

BORING METHOD: 4-inch Casing Advancer BOREHOLE DIAMETER: 5.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary, S. Bourcy	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63796/AHS289 DRILLING DATES: 6/25/2003 - 6/25/2003	REMARKS: Drilled at 45 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Gray, fine to medium, subangular to angular SILTY GRAVEL FILL; damp. Brown SILT, trace fine sand; moist.						Flush-Mount Steel Monument with Locking Cap
5			Sand content increases to some.						Pea Gravel (3/8-inch)
10			Becomes SANDY SILT.						Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium)
15			Brown, fine SAND, trace silt; moist.						Bentonite Grout Quick Gel, (40 gal water, 80 gallons)
20			Becomes wet. GRAVEL. No soil cuttings return.				▽		Bentonite Chips (3/4-inch, Sodium)
25									
30									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.5 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT826
DRILLING DATES: 6/23/2003 - 6/24/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORING
AS-40
 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: Mobile B59 **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT826
LOGGED BY: K. Schleh **DRILLING DATES:** 6/23/2003 - 6/24/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
 AS-40

PAGE 2 OF 2

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND.JUNE03.GDT 12/5/03

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Gray, fine to medium, subangular to angular SILTY GRAVEL FILL; damp. Brown SILT, trace fine sand; moist.						Flush-Mount Steel Monument with Locking Cap
5			Sand content increases to some.						Pea Gravel (3/8-inch)
10			Becomes SANDY SILT.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15			Brown, fine SAND, trace silt; moist.						Bentonite Chips (3/4-inch, Sodium)
20			Becomes wet. GRAVEL. No soil cuttings return.						Bentonite Grout Quick Gel, (40 gal water, 80 gallons)
25									Bentonite Chips (3/4-inch, Sodium)
30									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.5 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63797/AHT826 DRILLING DATES: 6/23/2003 - 6/24/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND_JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.5 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: K. Schleh

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT826
DRILLING DATES: 6/23/2003 - 6/24/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-40

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) with vapor barrier. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with Locking Cap
0-5									Pea Gravel (3/8-inch)
5-10			Becomes SANDY SILT.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
10-15									Bentonite Chips (3/4-inch, Sodium)
15-20							▽		
20-25			Brown, fine to medium SAND, trace silt; wet.						
25-30			GRAVEL.						

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS248
LOGGED BY: K. Schleh **DRILLING DATES:** 6/27/2003 - 6/27/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap Hole Collapsed </p>
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS248
LOGGED BY: K. Schleh **DRILLING DATES:** 6/27/2003 - 6/27/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
 AS-41

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) with vapor barrier. Brown SILT, trace fine sand; moist.						Flush-Mount Steel Monument with Locking Cap
									Pea Gravel (3/8-inch)
			Becomes SANDY SILT.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
			Brown, fine SILTY SAND lense; moist.						Bentonite Chips (3/4-inch, Sodium)
10			Brown SILT, trace fine sand; moist.						
			Brown, fine to medium SAND trace silt; moist.						
15			Becomes wet.						
20									
25			GRAVEL.						
30									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.5 (in) DRILL RIG: IR 8200 (Indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS249 DRILLING DATES: 6/27/2003 - 6/27/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									

ENVY-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND.JUNE03.GDT 12/5/03

<p>BORING METHOD: Hollow Stem Auger</p> <p>BOREHOLE DIAMETER: 8.5 (in)</p> <p>DRILL RIG: IR 8200 (Indoors)</p> <p>CONTRACTOR: Geo-Tech Explorations</p> <p>LOGGED BY: K. Schleh</p>	<p>ELEVATION REFERENCE:</p> <p>GROUND SURFACE ELEVATION:</p> <p>CASING ELEVATION:</p> <p>START CARD/TAG ID: R63795/AHS249</p> <p>DRILLING DATES: 6/27/2003 - 6/27/2003</p>	<p>REMARKS:</p> <p>No discrete soil samples collected. Lithology logged by drilling character/resistance.</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) with vapor barrier. Brown, medium SAND FILL, some silt; damp. Brown SILT, trace fine sand (FILL); moist.						Flush-Mount Monument with Locking Cap
			Concrete (Slurry/wash out). Brown SILT, trace fine sand; moist.						Pea Gravel (3/8-inch)
5			Harder drilling at 7.0-8.0 feet below ground surface. Brown, fine SANDY SILT; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
10			Brown, fine to medium SAND, trace silt; moist.						Bentonite Chips (3/4-inch, Sodium)
15									
20			Becomes wet.				▽		
25			GRAVEL. No soil cuttings return.						
30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE08.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (Indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS250
LOGGED BY: K. Schleh **DRILLING DATES:** 6/27/2003 - 6/27/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch, Sodium)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 8.5 (In)	GROUND SURFACE ELEVATION:
DRILL RIG: IR 8200 (Indoors)	CASING ELEVATION:
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63795/AHS250
LOGGED BY: K. Schleh	DRILLING DATES: 6/27/2003 - 6/27/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (3.75-inch layer). Medium stiff, medium dark brown, fine SANDY SILT; moist.						Flush-Mount Monument with Locking Cap
5									Concrete
10									Casing (Schedule 40 PVC, 2.0-inch I.D.)
15			Becomes gray-brown. Grades to fine SILTY SAND; saturated.						Bentonite Chips (3/8-inch)
20									
25			Grades to SANDY GRAVEL with some silt.						
30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.75 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**

CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** R62205/AKS115

LOGGED BY: R. Vannier **DRILLING DATES:** 6/28/2003 - 6/28/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.75 (in)
DRILL RIG: CME 75 Limited Access
CONTRACTOR: Cascade Drilling
LOGGED BY: R. Vannier

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R62205/AKS115
DRILLING DATES: 6/28/2003 - 6/28/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (approximately 6.0-inch, pre-cut). Soft, medium red-brown SILT to SANDY SILT; dry.						<p>Flush-Mount Monument with Locking Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p>
5									
10			SILT to SANDY SILT, some to trace gravel.						
15									
20			Very fine to fine SILTY SAND; wet.						
25									
30			GRAVEL. Harder drilling.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.25 (in) DRILL RIG: IR 8200 (Indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: C. Bartlett				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS251 DRILLING DATES: 6/21/2003 - 6/21/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			GRAVEL. Consistent drilling, grinding. Medium brown-gray SILTY SAND (cuttings).						<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap Native Formation </p>
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.25 (in)
DRILL RIG: IR 8200 (indoors)
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: C. Bartlett

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63795/AHS251
DRILLING DATES: 6/21/2003 - 6/21/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (6.0-inch, pre-cut).						Flush-Mount Monument with Locking Cap
0 - 13			Medium red-brown SILT; dry. Relatively easy drilling.						Concrete
13 - 17			Medium gray-brown to brown-gray SILTY SAND to SAND; wet.				▽		Casing (Schedule 40 PVC, 2.0-inch I.D.)
17 - 22			Relatively easy, smooth drilling.						Bentonite Chips (3/4-inch)
22 - 27			GRAVEL. Harder drilling, grinding noise.						
27 - 30			GRAVEL. Hard, consistent drilling. SILTY SAND to SAND; wet (cuttings).						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS252

LOGGED BY: C. Bartlett **DRILLING DATES:** 6/21/2003 - 6/21/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS252
LOGGED BY: C. Bartlett **DRILLING DATES:** 6/21/2003 - 6/21/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-46
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (6.0-inch, pre-cut).						Flush-Mount Monument with Locking Cap
0 - 15			Medium red-brown to gray-brown SILT, some gravel; dry. SILT. Drilling smoothly and consistently.						Concrete Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch)
15			Very fine to fine SANDY SILT; wet.				▽		
20 - 30			Gray-brown SILTY SAND to SANDY SILT; wet. Drilling very smoothly, consistently. GRAVEL. Harder drilling, grinding.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.25 (in) DRILL RIG: IR 8200 (Indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: C. Bartlett				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS253 DRILLING DATES: 6/22/2003 - 6/22/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			SILTY SAND, some gravel. Consistent, hard drilling, grinding.						<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap Native Formation </p>
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.25 (in)
DRILL RIG: IR 8200 (Indoors)
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: C. Bartlett

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63795/AHS253
DRILLING DATES: 6/22/2003 - 6/22/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-47

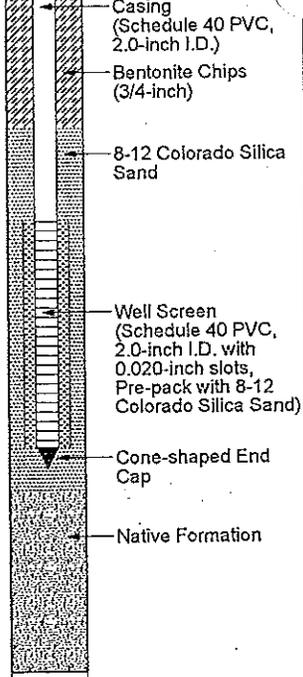
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC	
0			Concrete (6.0-inch slab, pre-cut).							
0 - 25			Medium red-brown SILT, some gravel; dry.							
25 - 28			SILT with occasional gravel.							
28 - 30			Medium brown-gray SILT to SANDY SILT/SILTY SAND; wet. Easy, smooth drilling.							
30 - 31			GRAVEL. Harder drilling, grinding.							
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.25 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: C. Bartlett				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS254 DRILLING DATES: 6/22/2003 - 6/22/2003				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENV-R-WELL BORING REV/2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND.JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									 <p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap Native Formation </p>
45			Total depth = 45.0 feet below ground surface.						

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS254
LOGGED BY: C. Bartlett **DRILLING DATES:** 6/22/2003 - 6/22/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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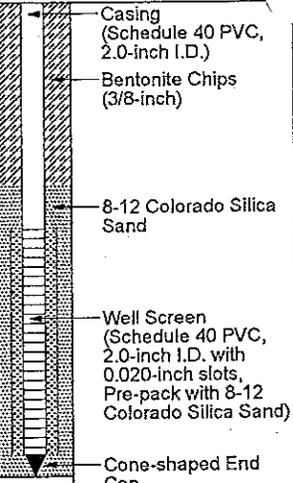
ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer). Medium stiff, medium brown, fine SANDY SILT; moist.					Flush-Mount Monument with Locking Cap	
5								Cement	
10								Casing (Schedule 40 PVC, 2.0-inch I.D.)	
15								Bentonite Chips (3/8-inch)	
20			Grades to fine SAND with some silt. Becomes saturated.				▽		
25									
30			Grades to SANDY GRAVEL with trace silt.						

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
BOREHOLE DIAMETER: 8.75 (in)	GROUND SURFACE ELEVATION:	
DRILL RIG: CME 75 Limited Access	CASING ELEVATION:	
CONTRACTOR: Cascade Drilling	START CARD/TAG ID: R62205/AKS121	
LOGGED BY: R. Vannier	DRILLING DATES: 6/28/2003 - 6/28/2003	

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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									 <p>Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap</p>
35			Total depth = 40.5 feet below ground surface.						
40									
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.75 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**
CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** R62205/AKS121
LOGGED BY: R. Vannier **DRILLING DATES:** 6/28/2003 - 6/28/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (3.75-inch layer). Medium stiff, medium brown SILT with some fine sand; moist.						
5									
10									
15									
20			Grades to fine to medium SAND with some silt; saturated.				▽		
25									
30			Grades to SANDY GRAVEL with trace silt.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.75 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**
CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** R62205/AKS120
LOGGED BY: R. Vannier **DRILLING DATES:** 6/28/2003 - 6/28/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.75 (in)
DRILL RIG: CME 75 Limited Access
CONTRACTOR: Cascade Drilling
LOGGED BY: R. Vannler

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R62205/AKS120
DRILLING DATES: 6/28/2003 - 6/28/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing
 3-61M-10135-D T4

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LOG OF BORIN
AS-50
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) with vapor barrier. Brown, medium SAND; moist. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with PVC Slip Cap
5									Concrete
10									Casing (Schedule 40 PVC, 2.0-inch I.D.)
15			Brown, fine to medium SILTY SAND; moist. Encountered sand lense at 14.0-15.0 feet below ground surface. Silt content decreases to trace. Becomes wet.						Bentonite Chips (3/4-inch, Sodium)
20									
25			GRAVEL. No soil cuttings return.						
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.5 (in) DRILL RIG: IR 8200 (Indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS255 DRILLING DATES: 6/30/2003 - 6/30/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORING
AS-51

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<ul style="list-style-type: none"> ← Casing (Schedule 40 PVC, 2.0-inch I.D.) ← Bentonite Chips (3/4-inch, Sodium) ← 8-12 Colorado Silica Sand ← Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) ← Cone-shaped End Cap ← Hole Collapsed
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									

ENVR+WELL BORING REVZ 3-61M-10135-D-T4.GPJ AMEC-PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: IR 8200 (Indoors) **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS255

LOGGED BY: K. Schleh **DRILLING DATES:** 6/30/2003 - 6/30/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-51

PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (4.0-inch layer) with vapor barrier. Brown SILT, trace fine sand; moist.						Flush-Mount Monument with PVC Slip Cap
5			Becomes SANDY SILT.						Concrete
15			Brown, fine SILTY SAND; moist. Becomes wet.				▽		Casing (Schedule 40 PVC, 2.0-inch I.D.)
25			GRAVEL. No soil cuttings return.						Bentonite Chips (3/4-inch, Sodium)
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.5 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS256 DRILLING DATES: 6/27/2003 - 6/27/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ, AMEC PORTLAND JUNE03.GDT 12/9/03

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.5 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: K. Schleh				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS256 DRILLING DATES: 6/27/2003 - 6/27/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORIN
 AS-52

PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete slab (4.0-inch) underlain by coarse GRAVEL FILL (base course). Medium dense, medium brown to dark brown, fine SILTY SAND; moist.						Flush-Mount Monument with Slip Cap Concrete Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch)
5			Becomes gray-brown.						
10			Becomes saturated.						
15							∇		
20			Grades to coarse SANDY GRAVEL with trace silt.						
25									
30									

ENVR+WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.75 (In) **GROUND SURFACE ELEVATION:**
DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**
CONTRACTOR: Cascade Drilling
LOGGED BY: R. Vannier **DRILLING DATES:** 6/27/2003 - 6/27/2003

START CARD/TAG ID: R62205/AKS119
REMARKS:

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LOG OF BORING
AS-53
 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.75 (in)
DRILL RIG: CME 75 Limited Access
CONTRACTOR: Cascade Drilling
LOGGED BY: R. Vannier

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R62205/AKS119
DRILLING DATES: 6/27/2003 - 6/27/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
 AS-53

PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Loose, medium brown, fine to medium SAND with some silt; damp.						Flush-Mount Monument with Slip Cap
5			Loose, medium to dark brown, fine to medium SILTY SAND with occasional gravel; moist. Becomes medium dense to dense.						Concrete Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch)
10			Grades to fine SILTY SAND.						
15			Becomes wet to saturated.				▽		
20			Grades to SILTY GRAVELLY SAND.						
25									
30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 10.0 (in)	GROUND SURFACE ELEVATION:
DRILL RIG: IR 8200 (Indoors)	CASING ELEVATION:
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63795/AHS257
LOGGED BY: R. Vannier	DRILLING DATES: 6/20/2003 - 6/20/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-54

PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60	BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: R. Vannier			ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS257 DRILLING DATES: 6/20/2003 - 6/20/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR+WELL BORING REV2 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (approximately 4.0-inch layer).						<p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p>
5									
10									
15									
20									
25									
30			Encountered GRAVEL during drilling.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/6/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION:
DRILL RIG: CME 75 Limited Access	CASING ELEVATION:
CONTRACTOR: Cascade Drilling	START CARD/TAG ID: R62204/AKS114
LOGGED BY: B. Lary	DRILLING DATES: 6/21/2003 - 6/21/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-55

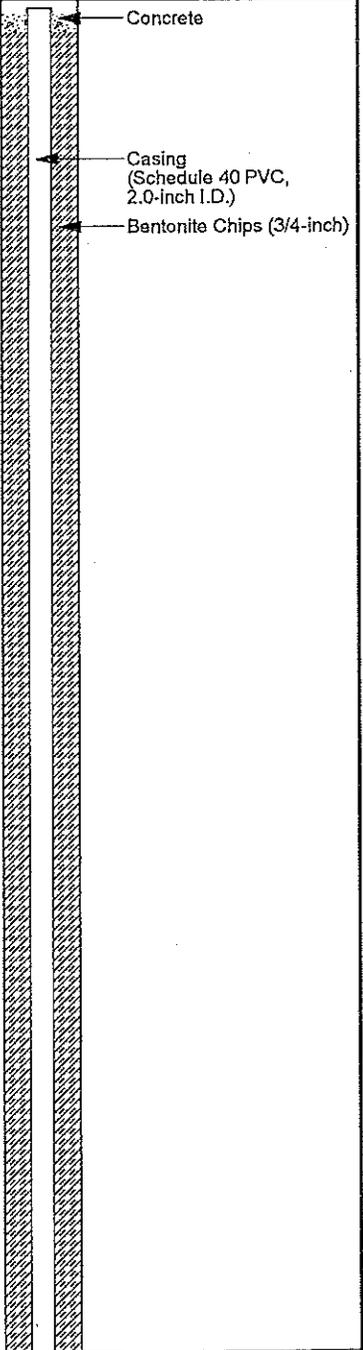
PAGE 1 OF 2

ENVR+WELL BORING REV2 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Flat End Cap</p>
35									
40									
45									
			Total depth = 41.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: CME 75 Limited Access CONTRACTOR: Cascade Drilling LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R62204/AKS114 DRILLING DATES: 6/21/2003 - 6/21/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete (approximately 4.0-inch layer) underlain by SAND FILL (base course).						 <p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p>
0 - 5			Brown CLAYEY SILT with minor fine sand; dry.						
5 - 9									
9 - 10			Becomes moist at 9.0-10.0 feet below ground surface.						
10 - 13									
13 - 15			Becomes wet at 13.0 feet below ground surface.						
15 - 22									
22 - 30			GRAVEL.						

ENVR+WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	START CARD/TAG ID: R63795/AHS258
BOREHOLE DIAMETER: 10.25 (in)	GROUND SURFACE ELEVATION:	REMARKS:
DRILL RIG: IR 8200 (Indoors)	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	DRILLING DATES: 6/14/2003 - 6/14/2003	
LOGGED BY: D. Hetherington		

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ENVR+WELL BORING REVZ 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
35									
40			Heavy COBBLES at 38.0 feet below ground surface. Hard drilling.						
45									
50									
55									
60			Total depth = 46.0 feet below ground surface.						

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (Indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS258
LOGGED BY: D. Hetherington **DRILLING DATES:** 6/14/2003 - 6/14/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-56

 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (approximately 4.0-inch layer) underlain by GRAVEL FILL (base course).						<p>Flush-Mount Monument with Slip Cap and Metal Plate</p> <ul style="list-style-type: none"> Gravel (Dry) 8-12 Colorado Silica Sand Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch)
0 - 5			Brown SANDY SILT; dry.						
5 - 10			GRAVEL lens.						
10 - 20			GRAVEL (briefly).						
20 - 25			GRAVEL (intermittent).						
25 - 30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 10.25 (in)	GROUND SURFACE ELEVATION:
DRILL RIG: IR 8200 (indoors)	CASING ELEVATION:
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R63795/AHS259
LOGGED BY: B. Lary	DRILLING DATES: 6/13/2003 - 6/13/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-57
PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35			GRAVEL (very intermittent). Soft drilling.						
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

ENVIR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.25 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS259 DRILLING DATES: 6/13/2003 - 6/13/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (5.0-inch) underlain by coarse GRAVEL FILL (base course). Soft, medium brown, fine SANDY SILT; dry.						Flush-Mount Monument with Slip Cap Concrete
5			Becomes medium stiff to stiff.						Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch)
10			Becomes moist.						
15			Becomes wet.						
20			Becomes saturated.				▽		
25			Grades to SILTY SAND with trace gravel.						
30			Grades to coarse SANDY GRAVEL with some silt.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: CME 75 Limited Access CONTRACTOR: Cascade Drilling LOGGED BY: R. Vannier				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R62205/AKS118 DRILLING DATES: 6/27/2003 - 6/27/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.		

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.0 (In) **GROUND SURFACE ELEVATION:**

DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**

CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** R62205/AKS118

LOGGED BY: R. Vannier **DRILLING DATES:** 6/27/2003 - 6/27/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing

3-61M-10135-D T4

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LOG OF BORIN
AS-58

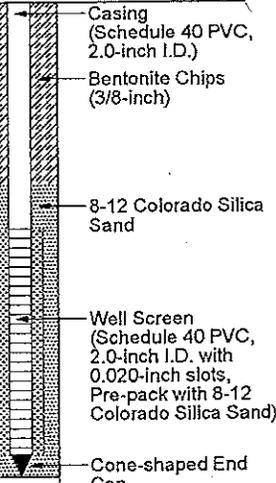
PAGE 2 OF 2

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (5.0-inch) underlain by coarse GRAVEL FILL (base course).						<p>Flush-Mount Monument with Locking Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p>
0-5			Soft, medium to dark brown, fine SANDY SILT; moist.						
5-10			Becomes medium stiff.						
10-20			Becomes saturated.						
20-25			Grades to fine SILTY SAND.						
25-30			Grades to coarse SANDY GRAVEL with some silt.						

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.75 (in) DRILL RIG: CME 75 Limited Access CONTRACTOR: Cascade Drilling LOGGED BY: R. Vannier	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R62205/AKS116 DRILLING DATES: 6/27/2003 - 6/27/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									 <p>Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap</p>
35			Total depth = 40.5 feet below ground surface.						
40									
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.75 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**
CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** R62205/AKS116
LOGGED BY: R. Vannier **DRILLING DATES:** 6/27/2003 - 6/27/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENV+R+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND_JUNE03.GDT 12/5/03

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LOG OF BORING
AS-59

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Coarse GRAVEL FILL.						
0-5			Loose, medium to dark brown, fine SILTY SAND; moist.						
5-10			Becomes medium dense.						
10-15			Becomes wet. Becomes saturated.				▽		
15-20									
20-25			Grades to fine SILTY GRAVELLY SAND.						
25-30									

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 10.0 (in) DRILL RIG: IR 8200 (Indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: R. Vannier	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R63795/AHS260 DRILLING DATES: 6/20/2003 - 6/20/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS260
LOGGED BY: R. Vannier **DRILLING DATES:** 6/20/2003 - 6/20/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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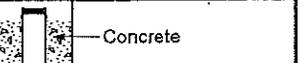
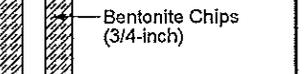
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LOG OF BORIN
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete (approximately 4.0-inch layer) underlain by coarse GRAVEL FILL (base course).						
5			Brown CLAYEY SILT with fine sand; dry.						
10			Becomes moist at approximately 10.0-11.0 feet below ground surface.						
15			Sand content increases.						
20									
25			Encountered GRAVEL at approximately 22.0 feet below ground surface. Gravel is fairly intermittent according to drill character.						
30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS261
LOGGED BY: D. Hetherington **DRILLING DATES:** 6/14/2003 - 6/14/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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ENVR+WELL BORING REV2 3-81M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Flat End Cap </p>
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: IR 8200 (indoors) **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS261
LOGGED BY: D. Hetherington **DRILLING DATES:** 6/14/2003 - 6/14/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete (approximately 4.0-inch layer) underlain by coarse GRAVEL FILL (base course).						Flush-Mount Monument with Slip Cap
0 - 4									Concrete
4 - 23			Brown CLAYEY SILT with minor fine sand; dry. Becomes moist at 10.0-11.0 feet below ground surface. Becomes wet.						Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch)
23 - 24			Encountered GRAVEL.						
24 - 30									

ENVR+WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.25 (in)
DRILL RIG: IR 8200 (Indoors)
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
DRILLING DATES: 6/14/2003 - 6/14/2003

START CARD/TAG ID: R63795/AHS262
REMARKS:

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Flat End Cap </p>
35									
40									
45									
45.5			Total depth = 45.5 feet below ground surface.						

ENV/R+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.25 (in)
DRILL RIG: IR 8200 (Indoors)
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: D. Hetherington

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63795/AHS262
DRILLING DATES: 6/14/2003 - 6/14/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-62
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Coarse GRAVEL FILL.						<p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch, Sodium)</p>
5			Soft, medium to dark brown, fine SANDY SILT; damp.						
10			Becomes stiff.						
15			Becomes wet to saturated.				▽		
20			Becomes SILTY GRAVELLY SAND.						
25			GRAVEL. No soil cuttings return.						
30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.5 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: IR 8200 (Indoors) **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS263

LOGGED BY: R. Vannier **DRILLING DATES:** 6/20/2003 - 6/20/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45			Total depth = 45.0 feet below ground surface.						
50									
55									
60									

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 8.5 (in)
 DRILL RIG: IR 8200 (indoors)
 CONTRACTOR: Geo-Tech Explorations
 LOGGED BY: R. Vannier

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION:
 CASING ELEVATION:
 START CARD/TAG ID: R63795/AHS263
 DRILLING DATES: 6/20/2003 - 6/20/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND_JUNE03.GDT 12/5/03

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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (approximately 5.0-inch, pre-cut).						Flush-Mount Monument with Locking Cap
0-5			Red-brown SILT; dry.						Concrete
5-10			Dark gray-brown SILTY GRAVEL to GRAVELLY SILT with some fine sand; damp.						Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch)
10-15									
15-20			Medium dense, medium gray-brown, very fine to fine SAND to SILTY SAND; damp to wet.						▽
20-25			Relatively smooth drilling to 20.0 feet below ground surface. Relatively smooth, slow, consistent drilling at 20.0-40.0 feet below ground surface. SILTY SAND and GRAVEL; moist to wet. Harder drilling, grinding.						
25-30			Very hard drilling at 25.0-26.0 feet below ground surface.						

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 10.25 (in)
DRILL RIG: IR 8200 (indoors)
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: C. Bartlett

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63795/AHS264
DRILLING DATES: 6/21/2003 - 6/21/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			GRAVEL. Hard drilling but advancing consistently.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Flat End Cap</p> <p>Hole Caved with Native Sand</p>
35			Very hard, slower drilling at 37.0-39.0 feet below ground surface.						
40			Medium dense, dark gray-brown SILTY SAND, fine SAND, and GRAVEL; wet. Slow, hard, consistent drilling.						
45									
50			Total depth = 50.0 feet below ground surface.						
55									
60									

ENVR+WELL BORING REVZ 3-61M-10135-D-T4.GPJ AMEC-PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 10.25 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: IR 8200 (Indoors) **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63795/AHS264

LOGGED BY: C. Bartlett **DRILLING DATES:** 6/21/2003 - 6/21/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-64

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (4.0-inch) underlain by coarse GRAVEL FILL (base course).						Flush-Mount Monument with Locking Cap
			Soft, medium brown, fine SANDY SILT; moist.						Concrete
5			Becomes medium stiff.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
			Grades to fine SILTY SAND.						Bentonite Chips (3/8-inch)
10									
15									
			Becomes saturated.				▽		
20									
25									
			Grades to GRAVELLY SAND with some silt.						
30									

BORING METHOD: Hollow Stem Auger

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 8.75 (in)

GROUND SURFACE ELEVATION:

DRILL RIG: CME 75 Limited Access

CASING ELEVATION:

CONTRACTOR: Cascade Drilling

START CARD/TAG ID: R62205/AKS117

LOGGED BY: R. Vannier

DRILLING DATES: 6/27/2003 - 6/27/2003

REMARKS:

No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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LOG OF BORING
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3-61M-10135-D T4

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40			Total depth = 40.5 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.75 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**
CONTRACTOR: Cascade Drilling **START CARD/TAG ID:** R62205/AKS117
LOGGED BY: R. Vannier **DRILLING DATES:** 6/27/2003 - 6/27/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Sandy crushed rock FILL (3/4-inch minus, base course).						Flush-Mount Monument with Locking Cap
		ML	Medium stiff, reddish brown, oxidized CLAYEY SILT with trace very fine sand; moist.						Concrete
5									Casing (Schedule 40 PVC, 2.0-inch I.D.)
10									High Yield Bentonite Grout Slurry with 30% Solids, (50 lbs grout : 15 gal water, average mud weight = 10.0 lbs/gal, 60 gallons)
15									
20		SP-SM	Grades to SAND to SILTY SAND.						
25		GW-SW	Red-brown, approximately 75% return circulation from 2.0-24.0 feet below ground surface. Very dense, gray-brown, medium to coarse, well-graded, alluvial SANDY GRAVEL to GRAVELLY SAND. Gray, approximately 40-50% return circulation from 24.0-45.0 feet below ground surface.						
30									

ENVR+WELL BORING REV2 3-81M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: 4-inch Casing Advancer
BOREHOLE DIAMETER: 5.0 (in)
DRILL RIG: Mobile B59 Track Rig
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R63797/AHT827
DRILLING DATES: 6/26/2003 - 6/26/2003

REMARKS:
 Drilled at 26 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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LOG OF BORING
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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	Finer GRAVEL encountered at 37.0-40.0 feet below ground surface.						<ul style="list-style-type: none"> → Casing (Schedule 40 PVC, 2.0-inch I.D.) → High Yield Bentonite Grout Slurry with 30% Solids, (50 lbs grout : 15 gal water, average mud weight = 10.0 lbs/gal, 60 gallons) → 20-40 Colorado Silica Sand Transition Layer → Rubber Shale Trap/Grout Barrier → Natural Formation → Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) → Cone-shaped End Cap
35									
40									
45			Total depth = 45.5 feet below ground surface.						
50									
55									
60									

BORING METHOD: 4-Inch Casing Advancer **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 5.0 (In) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 Track Rig **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797/AHT827

LOGGED BY: S. Bourcy **DRILLING DATES:** 6/26/2003 - 6/26/2003

REMARKS:
 Drilled at 26 degree angle. Depths are reported along drill direction and do not represent vertical measurements. No discrete soil samples. Lithology logged by drilling character/resistance.

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ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC-PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (approximately 4.0-inch) underlain by soil (1.0-inch to 2.0-inch layer) and buried concrete slab.						<p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p>
5									
10									
15									
20									
25									
30			Encountered GRAVEL during drilling.						

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: CME 75 Limited Access CONTRACTOR: Cascade Drilling LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R62204/AKS113 DRILLING DATES: 6/21/2003 - 6/21/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.
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Cadet Manufacturing 3-61M-10135-D T4	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING AS-67 PAGE 1 OF 2
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35									
40									
45									
50									
55									
60									

Total depth = 41.0 feet below ground surface.

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: CME 75 Limited Access
CONTRACTOR: Cascade Drilling
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R62204/AKS113
DRILLING DATES: 6/21/2003 - 6/21/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC.PORLAND.JUNE03.GDT 12/5/03

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LOG OF BORING
AS-67

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete slab (approximately 4.0-inch) underlain by second concrete slab (5.0-inch to 7.0-inch) with wire mesh.						<p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p>
5									
10									
15									
20									
25									
30									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION:
DRILL RIG: CME 75 Limited Access	CASING ELEVATION:
CONTRACTOR: Cascade Drilling	START CARD/TAG ID: R62204/AKS112
LOGGED BY: B. Lary	DRILLING DATES: 6/21/2003 - 6/21/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-68
PAGE 1 OF 2

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35			Occasional gravel.						
40									
			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 8.0 (In)
 DRILL RIG: CME 75 Limited Access
 CONTRACTOR: Cascade Drilling
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION:
 CASING ELEVATION:
 START CARD/TAG ID: R62204/AKS112
 DRILLING DATES: 6/21/2003 - 6/21/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
 AS-68

PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Concrete core (approximately 4.0-inch).						
5									
10									
15			Groundwater encountered between 15.0 and 20.0 feet below ground surface.						
20									
25									
30			GRAVEL.						

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: CME 75 Limited Access
CONTRACTOR: Cascade Drilling
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R62204/AKS111
DRILLING DATES: 6/20/2003 - 6/20/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
AS-69
 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Flat End Cap</p>
35									
40			Total depth = 41.0 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: CME 75 Limited Access
CONTRACTOR: Cascade Drilling
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R62204/AKS111
DRILLING DATES: 6/20/2003 - 6/20/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORIN
AS-69
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete (approximately 4.0-inch layer).						<p>Flush-Mount Monument with Locking Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p>
5									
10									
15			Groundwater encountered between 15.0 and 20.0 feet below ground surface.				▽		
20									
25									
30			GRAVEL encountered during drilling.						

ENVR+WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION:
DRILL RIG: CME 75 Limited Access	CASING ELEVATION:
CONTRACTOR: Cascade Drilling	
LOGGED BY: B. Lary	DRILLING DATES: 6/20/2003 - 6/20/2003

START CARD/TAG ID: R62204/AKS110

REMARKS:

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LOG OF BORING
 AS-70

PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Flat End Cap </p>
35			Larger GRAVEL encountered during drilling.						
40									
45									
50									
55									
60									

Total depth = 41.0 feet below ground surface.

ENVR+WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: CME 75 Limited Access **CASING ELEVATION:**
CONTRACTOR: Cascade Drilling
LOGGED BY: B. Lary **DRILLING DATES:** 6/20/2003 - 6/20/2003

START CARD/TAG ID: R62204/AKS110
REMARKS:

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LOG OF BORIN
AS-70
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete (3.0-inch to 4.0-inch layer). SAND.						
5									
10									
15									
20			SAND; moist.				▽		
25			GRAVEL encountered during drilling.						
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 11.0 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: DRILLING DATES: 6/7/2003 - 6/8/2003			START CARD/TAG ID: R63795/AHS265 REMARKS:		

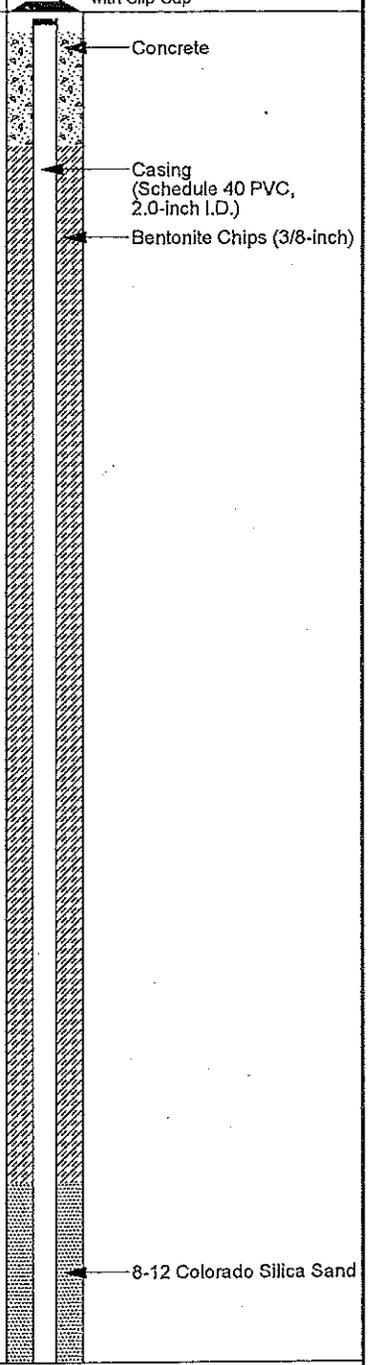
ENVR+WELL BORING REV1 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

<p>Cadet Manufacturing</p> <p>3-61M-10135-D T4</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p> 	<p>LOG OF BORING AS-71</p> <p>PAGE 1 OF 2</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
30			SAND with occasional large gravel/cobbles.						<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap </p>
			GRAVEL/COBBLES.						
35			Large COBBLES/GRAVEL.						
40									
45			Total depth = 43.0 feet below ground surface.						
50									
55									
60									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 11.0 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: DRILLING DATES: 6/7/2003 - 6/8/2003			START CARD/TAG ID: R63795/AHS265 REMARKS:		

ENVR-HWELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

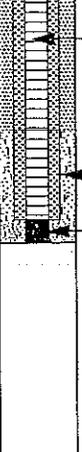
Cadet Manufacturing 3-61M-10135-D T4	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING AS-71 PAGE 2 OF 2
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete (approximately 4.0-inch layer) underlain by coarse GRAVEL FILL (base course) with concrete chunks and buried concrete pad (approximately 3.0-4.0 inches thick).						 <p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8-12 Colorado Silica Sand</p>
5									
10									
15									
20			SILT and SAND.						
25									
25			GRAVEL (1.5 feet).						
30			SAND. Easier drilling. GRAVELLY.						

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: IR 8200 (indoors) CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: DRILLING DATES: 6/6/2003 - 6/6/2003	START CARD/TAG ID: R63795/AHS266 REMARKS:
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ENVRWELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
30									 <p data-bbox="1299 262 1567 714">Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Native Material Flat End Cap</p>
35			Occasional large gravel/cobbles encountered during drilling.						
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	START CARD/TAG ID: R63795/AHS266
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION:	REMARKS:
DRILL RIG: IR 8200 (Indoors)	CASING ELEVATION:	
CONTRACTOR: Geo-Tech Explorations	DRILLING DATES: 6/6/2003 - 6/6/2003	
LOGGED BY: B. Lary		

<p data-bbox="154 1869 381 1900">Cadet Manufacturing</p> <p data-bbox="154 1942 349 1974">3-61M-10135-D T4</p>	<p data-bbox="609 1848 966 1995">AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p data-bbox="1307 1858 1534 1921">LOG OF BORIN AS-72</p> <p data-bbox="1364 1953 1502 1984">PAGE 2 OF 2</p>
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
0			Concrete (4.0-inch layer) underlain by GRAVEL FILL (base course).						<p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch)</p>
5									
10									
15			Groundwater encountered between 15.0 and 20.0 feet below ground surface.				▽		
20									
25			GRAVEL encountered during drilling.						
30									

ENVR+WELL BORING REV1 3-61M-10135-D T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	START CARD/TAG ID: R62204/AKS109
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION:	REMARKS:
DRILL RIG: CME 75 Limited Access	CASING ELEVATION:	
CONTRACTOR: Cascade Drilling	DRILLING DATES: 6/20/2003 - 6/20/2003	
LOGGED BY: B. Lary		

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3-61M-10135-D T4

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Fax +1 (503) 620-7892



LOG OF BORING
AS-73
PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD TESTING	WELL SCHEMATIC AND LABORATORY DATA
30									<p> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Flat End Cap </p>
35			Larger GRAVEL.						
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									

ENVIR-WELL BORING REV1 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: CME 75 Limited Access CONTRACTOR: Cascade Drilling LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: DRILLING DATES: 6/20/2003 - 6/20/2003	START CARD/TAG ID: R62204/AKS109 REMARKS:
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FRUIT VALLEY BORINGS

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Fine, sandy SILT.						
10	Damp, brown, silty, fine-grained, micaceous SAND.		FV-5/12-14		0.0		
15	Coarser SAND.		FV-5/16-18				
20	Moist with interbedded silt layers.				0.0		
25	Collected groundwater sample FV-5/GW29 from screened interval at 25.0-29.0 feet.					WD	
30	Total depth = 29.0 feet.						

8260

8260

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater level at time of drilling

-  Groundwater Analysis (Test Method Shown)
-  Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/11/99

Drilling Completed: 10/11/99

Logged By: B. Lary

a:10135\FV5.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt underlain by base course GRAVEL						 Hole was backfilled with bentonite chips which were hydrated after placement.
5							
10	Damp, brown, sandy SILT.						
12	Damp, brown, silty, micaceous, fine-grained SAND.		FV-6/12-14				
14			FV-6/14-16		0.0		
16			FV-6/16-18		0.0		8260
20						WD	8260
25	Collected groundwater sample FV-6/GW28 from screened interval at 24.0-28.0 feet.						
28	Total depth = 28.0 feet.						

PROJECT NUMBER: 9-61M-10135-0

LEGEND

 2.0-Inch O.D. Geoprobe soil core sample with % recovered	 Groundwater Analysis (Test Method Shown)
 Groundwater level at time of drilling	8015 Soil Analysis (Test Method Shown)
	8240 Soil Analysis (Test Method Shown)

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/12/99

Drilling Completed: 10/12/99

Logged By: B. Lary

a:\10135\FV6.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt underlain by base course GRAVEL.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
6							
10							
15	Damp, brown, fine- to medium-grained, silty SAND.		FV-7/12-14				
	Interbedded, sandy SILT layers.		FV-7/14-16		1.6		8260
	Silty SAND.		FV-7/16-18				
20	Moist, brown, medium- grained, silty, micaceous SAND grades to medium-grained, silty SAND with interbedded silts at 22.0 feet.		FV-7/18-20		2.5		
			FV-7/20-22				
			FV-7/22-24		0.0		
25	Collected groundwater sample FV-7/GW29 from screened interval at 25.0-29.0 feet.					WD	8260
30	Total depth = 29.0 feet.						

LEGEND

 2.0-Inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (Test Method Shown)

 Groundwater level at time of drilling

 8015
8240 Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/12/99

Drilling Completed: 10/12/99

Logged By: B. Lary

a:\10135\FV7.DRW

Elevation Reference: NA
 Relative Ground Surface Elevation: NA
 Well Completed: NA
 Relative Casing Elevation: NA
 Boring Method: Geoprobe
 Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Asphalt underlain by base course GRAVEL CAVITY.						Hole was backfilled with bentonite chips which were hydrated after placement.	
5								
10	Damp, brown, very fine-grained, silty, micaceous SAND.		FV-8/10-12		0.0			
15	Slightly coarser SAND near 16.0 feet.		FV-8/12-14		0.0			
20	Damp, dark brown, silty, medium-grained, micaceous SAND.		FV-8/14-16		0.0			8260
25			FV-8/16-18		0.0			
28.0	Collected groundwater sample FV-8/GW28 from screened interval at 24.0-28.0 feet. Total depth = 28.0 feet.		FV-8/18-20		8.3	WD		8260

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater level at time of drilling
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
 Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/12/99

Drilling Completed: 10/12/99

Logged By: B. Lary

E:\10135\FV8.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water
0	Grass.					
5	Dry, brown, fine sandy SILT.		FV9/ 4-6	↓	100	
10	Collected vapor sample FV9/V8 in tedlar bag and summa canister. Dry to damp, brown, interbedded micaceous, fine-grained SAND with silts.	16	FV9/ 8-10	↓	252	HVOCs
15	Mostly SAND.		FV9/ 12-14	↓	221	
20	Damp to moist, gray, medium-grained SAND with some silt.		FV9/ 16-18	↓	106	
20	Collected groundwater sample FV9/GW18-22 from screened interval at 18.0-22.0 feet.					WD
22	Total depth = 22.0 feet.					
30	<p>LEGEND</p> <ul style="list-style-type: none"> 2.0-inch O.D. Geoprobe soil core sample with % recovered Encountered groundwater level WD while drilling Groundwater Analysis (HVOCs by 8260) Soil Analysis (HVOCs by 8260) Soil Vapor Analysis (VOCs by TO-14A) <p>PROJECT NUMBER: 0-81M-10135-1</p> <p>Cadet Manufacturing Vancouver, Washington</p> <p>AGRA EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223-8025 Phone (503) 639-3400 FAX (503) 620-7892</p>					

Drilling Started: 6/6/00

Drilling Completed: 6/6/00

Logged By: E. Lary

110135FV9.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Grass.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5	Dry to damp, brown, silty, micaceous, fine-grained SAND.		FV10/ 4-6		32		
8	Collected vapor sample in tedlar bag.	8	FV10/ 8-10		81		
10	Dry, brown, micaceous, fine-grained SAND with some silt.		FV10/ 12-14		62		
15	Interbedded fine- to medium-grained SAND layers.		FV10/ 16-18		194		
20	Damp, gray-brown, medium-grained SAND with little silt.				106		
20	Collected groundwater sample FV10/GW18-22 from screened interval at 18.0-22.0 feet.					WD	
	Total depth = 22.0 feet.						
25							
30							

LEGEND

 2.0-Inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/6/00

Drilling Completed: 6/8/00

Logged By: B. Lary

110135\FV10.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0				
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Grass.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
6	Collected vapor sample FV11/V4' in tedlar bag and summa canister. Damp, brown, fine, micaceous, sandy SILT with minor scattered rust spots.	14	FV11/4-6	↓	90			HVOCs
10	Collected vapor sample FV11/V8' in tedlar bag and summa canister. Interbedded damp SILTS with sandy silts to silty sands.	18	FV11/8-10	↓	87			HVOCs
15	Silty, very fine-grained SAND.		FV11/12-14	↓	86			
20	Damp, fine sandy SILT with rootlets. Moist in silt layer.		FV11/16-18	↓	66			
20	Collected groundwater sample FV11/GW18-22 from screened interval at 18.0-22.0 feet.					WD		
	Total depth = 22.0 feet.							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)
-  HVOCs Soil Analysis (HVOCs by 8260)
-  Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-1
 Cadet Manufacturing
 Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/6/00

Drilling Completed: 6/6/00

Logged By: B. Lary

110135\FV11.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Rotohammer/Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Grass.						<p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
5	Damp, brown, fine sandy SILT with organics (roots).		FV12/4-6	↓	25			
10	Collected vapor sample in tedlar bag. Slightly sandier.	17	FV12/8-10	↓	26			HVOCs
15	Damp, dark brown, sandy SILT.		FV12/12-14	↓	48			
20	Interbedded SILTS and SANDS.		FV12/16-18	↓	54			
20	Collected groundwater sample FV12/GW18-22 from screened interval at 18.0-22.0 feet.					▼ WD		
25	Total depth = 22.0 feet.							
30								

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Encountered groundwater level while drilling
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/8/00

Drilling Completed: 8/8/00

Logged By: B. Lary

110135FV12.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Rotohammer/Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Grass.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
5	Too soft - no recovery.		FV13/4-6	NR				
10	Collected vapor sample FV13/V8 in tedlar bag and summa canister. Damp, brown, silty, micaceous, fine-grained SAND.	4.4	FV13/8-10		198			
15			FV13/12-14		235			HVOCs
20	Moist, dark gray and black, medium-grained SAND with silt layers.		FV13/18-18		102	WD		
20	Collected groundwater sample FV13/GW18-22 from screened interval at 18.0-22.0 feet.							
25	Total depth = 22.0 feet.							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  NR No sample recovery
-  WD Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)
-  HVOCs Soil Analysis (HVOCs by 8260)
-  Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 539-3400 FAX (503) 620-7892

Drilling Started: 8/8/00 Drilling Completed: 8/8/00 Logged By: B. Lary 10135FV13.DRW

GB & C BORINGS - WELLS

ENV. DIRECT PUSH BORING 10135GP 1898.GPJ ENVIRONMENTAL BORING.GDT 2/9/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-1
									TESTING AND LABORATORY DATA
0		SM	Loose, medium yellow-brown, silty, fine-grained SAND; moist.		1.3				GP1-120 pH
5			Loose to medium dense, medium brown, silty, fine-grained SAND with some clay; moist to wet. Small wet layer of fine-grained SAND at 6.0 feet.		0.1				
10			Loose to medium dense, medium brown, silty, fine-grained SAND; moist to wet. Interval has layers of dryer silty sand and wetter layers of mostly sand.		2.0				
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement and capped with asphalt.						GP1-120 B2805 for HVOcs & pH
60	BORING METHOD: Direct Push		ELEVATION REFERENCE: NA		REMARKS:				
	BOREHOLE DIAMETER: 1.5 (in)		GROUND SURFACE ELEVATION: NA						
	LOGGED BY: MLP								
	DRILLING STARTED: 3/10/1999								
	DRILLING COMPLETED: 3/10/1999								
Cadet Manufacturing			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-1	
9-61M-10135-0									

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-2	
									TESTING AND LABORATORY DATA	
0		SM	Loose, medium yellow-brown, silty, fine-grained SAND; damp.		6.1					GP298-12 HVOCs by #260
5			Loose, medium brown, fine- to medium-grained SAND; damp.		9.4					
10			Loose to dense, medium brown, fine- to medium-grained SAND and fine-grained SAND with silt; wet. Distinct layers with fine- to medium-grained sand (up to 6.0 inches) and fine-grained sand (up to 1.0-2.0 feet).		29					
15			Loose to dense, medium brown, fine- to medium-grained SAND; wet. Interval of fine-grained SAND (last 4.0 inches).		15					
20	Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement and capped with asphalt.									
30	BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS:				
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-2		

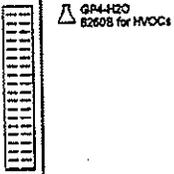
ENV DIRECT PUSH BORING 10135GP, 1999.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-3	
									TESTING AND LABORATORY DATA	
0		SM	Loose to dense, medium brown, silty, fine-grained SAND with trace clay; damp.		21					
5			Loose to medium dense, medium brown, fine-grained SAND with some silt; damp. Percent of silt is variable throughout interval.		23					
10			Medium brown, fine-grained SAND with some silt; damp to moist.		21					
15			Medium brown, fine- to medium-grained SAND; wet. Finer towards bottom of interval.		48				□ GP3@12-18 HVOCs by 8260 & NVTPH-HCID	
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement.						△ GP3-H2O 8260B for HVOCs, NVTPH-HCID, PAHs by 8270	
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS:					
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-3		

ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-4	
									TESTING AND LABORATORY DATA	
0		ML	Medium stiff to very stiff, medium brown, fine, sandy SILT with trace clay; damp.		11					
5		SM	Loose to medium dense, medium brown, fine-grained SAND and fine-grained SAND with some silt layering; damp.		2.6					
10			Loose, medium brown, fine- to medium-grained SAND; moist to wet.		6.7					
15			Loose to very dense, medium gray-brown, fine-grained SAND; wet. Interval 15.0-16.0 feet of fine- to medium-grained SAND.		6.3					
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement.							
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Purged 1/2 quart of water during groundwater sample collection. Boring is dry.				
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-4		

ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

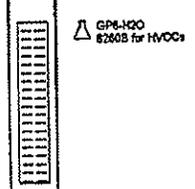


ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-5	
									TESTING AND LABORATORY DATA	
0		SM	Medium dense to very dense, medium brown, fine-grained SAND with some silt; damp.						 GPS-120 82808 for HVOCs & pH	
5			Medium dense, medium brown, fine-grained SAND to fine-grained, silty SAND; damp.		3.8					
10			Medium dense, medium brown, fine-grained SAND with some silt; damp to wet.		2.2					
15			Medium dense to very dense, medium brown, fine- to medium-grained SAND with trace silt; wet.		2.9					
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement and capped with asphalt.		4.3					
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS:				
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-5 PAGE 1 OF 1		

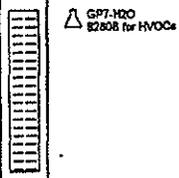
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-6	
									TESTING AND LABORATORY DATA	
0		SM	Medium dense to very dense, medium brown, silty, fine-grained SAND; damp.		0.0					
5			Medium dense to dense, medium brown, silty, fine-grained SAND; damp.		0.0					
10			Medium dense, medium brown, silty, fine-grained SAND; moist to wet.		0.0					
15			Medium dense, medium brown, fine- to medium-grained SAND; wet.		0.0					
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement and capped with asphalt.							
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS:					
Cadet Manufacturing 9-81M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-6 PAGE 1 OF 1	

ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-7	
									TESTING AND LABORATORY DATA	
0		SM	Medium dense to very dense, medium brown, fine-grained, SAND with some silt; damp.		0.0					
5										
10										
15										
20										
25										
30										
BORING METHOD: Direct Push			ELEVATION REFERENCE: NA			REMARKS:				
BOREHOLE DIAMETER: 1.5 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: MLP										
DRILLING STARTED: 3/10/1999										
DRILLING COMPLETED: 3/10/1999										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.							
9-61M-10135-0			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
						GP-7				
						PAGE 1 OF 1				

ENV. DIRECT PUSH BORING 10135GP-1899.GPJ ENVIRONMENTAL BORING GDT 2/8/03



DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-8	
									TESTING AND LABORATORY DATA	
0		ML	Very stiff, medium yellow-brown SILT with some fine-grained sand and clay; damp. Slight odor and gray discoloration.						☒ PGHQ-2 MWTPH-CID	
0			Same as above but no apparent odor or discoloration.		4.3					
0.0					0.0					
5		SM	Dense to medium dense, medium brown, silty, fine-grained SAND; moist to wet.							
0.0					0.0					
10		ML	Stiff, medium brown, fine, sandy SILT; moist to wet.							
0.0					0.0					
15		SM	Dense, medium brown to gray-brown, fine- to medium-grained SAND; wet.							
0.0					0.0					
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement and capped with concrete.						△ GP8-H2O 62608 for MVOCs, MWTPH-CID, MWTPH-Dx, PAHs by IZ710	
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS:				
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-8		PAGE 1 OF 1

ENV. DIRECT PUSH BORING 10135GP. 1999.GPJ ENVIRONMENTAL BORING.GDT. 2/8/03

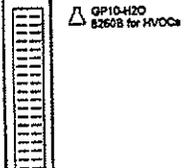
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-9	
									TESTING AND LABORATORY DATA	
0		SM	Soft, medium brown, fine, sandy SILT to loose, silty, fine-grained SAND; moist.		0.0					
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement.							
30	BORING METHOD: Direct Push ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.5 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			REMARKS:						
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-9 PAGE 1 OF 1		

ENV. DIRECT PUSH BORING 10135GP 1899.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

GP9-H2O
#2608 for HVOCs

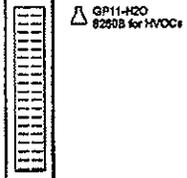
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-10		
									TESTING AND LABORATORY DATA		
0		ML	Stiff, medium yellow-brown SILT with some fine-grained sand; damp.		0.0						
5		SM	Dense, medium brown, fine-grained SAND with some medium-grained sand and some silt; damp to moist.								
10			Dense, medium to dark brown, fine- to medium-grained SAND; wet.		0.0						
15											
20											
25											
30											
35											
40											
45											
50											
55											
60											
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS:					
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-10		PAGE 1 OF 1	

ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2803



DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-11	
									TESTING AND LABORATORY DATA	
0		ML	Stiff, medium brown, fine-grained, sandy SILT; damp.		0.0					
5										
10										
15										
20										
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/10/1999 DRILLING COMPLETED: 3/10/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS:					
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-11 PAGE 1 OF 1	

ENV DIRECT PUSH BORING 10135GP 1868.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



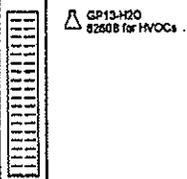
DEPTH (ft. (pgs))	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-12	
									TESTING AND LABORATORY DATA	
0		ML	Very stiff, medium yellow-brown, fine, sandy SILT; dry to damp.		0.2					
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
BORING METHOD: Direct Push			ELEVATION REFERENCE: NA			REMARKS:				
BOREHOLE DIAMETER: 1.5 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: MLP										
DRILLING STARTED: 3/11/1999										
DRILLING COMPLETED: 3/11/1999										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.							
9-61M-10135-0			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
						GP-12				
						PAGE 1 OF 1				

ENV. DIRECT PUSH BORING 10135GP 18688.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

 GP12-H2O
82608 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-13	
									TESTING AND LABORATORY DATA	
0		SM	Soft, medium yellow-brown, fine, sandy SILT to dense, silty, fine-grained SAND; damp.		0.1					
5										
10										
15										
20										
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/11/1999 DRILLING COMPLETED: 3/11/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS:				
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-13 PAGE 1 OF 1		

ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-14	
									TESTING AND LABORATORY DATA	
0		SM	Soft, medium brown SILT with some fine-grained sand; damp to moist. One large chunk of wood noted at approximately 3.5 feet.		0.1					
5										
10										
15										
20										
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/11/1999 DRILLING COMPLETED: 3/11/1999			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS:				
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-14 PAGE 1 OF 1		

ENV DIRECT PUSH BORING 10135GP_1999.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

GP14-RD
42605 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-15	
									TESTING AND LABORATORY DATA	
0		ML	Soft, medium red-brown, fine, sandy SILT; damp.		0.1					
5										
10										
15										
20										
25										
30										
BORING METHOD: Direct Push			ELEVATION REFERENCE: NA			REMARKS:				
BOREHOLE DIAMETER: 1.5 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: MLP										
DRILLING STARTED: 3/11/1999										
DRILLING COMPLETED: 3/11/1999										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.						GP-15	
9-61M-10135-0			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
PAGE 1 OF 1										

ENV. DIRECT PUSH BORING 10135GP 1998.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



DEPTH (ft logs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-16	
									TESTING AND LABORATORY DATA	
0		SM	Dense, medium brown, fine-grained SAND with some silt; damp.		0.0					
20			Total depth = 20.0 feet below ground surface. Boring was backfilled with bentonite chips which were hydrated after placement.							
25										
30										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: MLP DRILLING STARTED: 3/11/1999 DRILLING COMPLETED: 3/11/1999						ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS:		
Cadet Manufacturing 9-61M-10135-0			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-16 PAGE 1 OF 1	

ENV DIRECT PUSH BORING 10135GP 1999.GPJ ENVIRONMENTAL BORING.GDT 2/9/03

GP16-H2O
82598 for HVOCs

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water
0	Asphalt over base course gravel FILL.					
	Damp, medium brown, silty, fine-grained SAND grading to fine- to medium-grained SAND in last 4.0 inches.		GP17/ 3-4		72	
5	Interbedded SILTS and SAND.					
	Collected vapor sample in tedlar bag. Medium-grained SAND last 10.0-12.0 inches.	58	GP17/ 7-8		193	
10			GP17/ 11-12		135	
15	Moist to wet, dark brown, medium- to fine-grained SAND with silt.		GP17/ 15-16		28	
	Saturated, brown and gray, medium-grained SAND with some silt. Collected groundwater sample GP17/GW16-20 from screened interval at 16.0-20.0 feet.		GP17/ 19-20		414	WD
20	Total depth = 20.0 feet.					
25						
30						

Hole was backfilled with bentonite chips which were hydrated after placement.

HVOCs

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level, WD while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/5/00

Drilling Completed: 6/6/00

Logged By: B. Lary

110135GP17.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0				
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Asphalt over base course gravel FILL.							
0-5	Dry, brown, silty, micaceous, fine-grained SAND or sandy SILT.		GP18/3-4		200			HVOCs
5-10	Damp, gray-brown, silty, fine-grained SAND. Collected vapor sample in tedlar bag.	36	GP18/7-8		79			
10-15	Damp, gray-brown, interbedded micaceous, fine-grained SAND with silt layers.		GP18/11-12		101			
15-20	Damp to moist, brown to gray, fine- to medium-grained SAND with silt and SILT layers.		GP18/15-16		36			
20	Collected groundwater sample GP18/GW16-20 from screened interval at 16.0-20.0 feet.					WD		
20	Total depth = 20.0 feet.							
25								
30								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/5/00

Drilling Completed: 6/5/00

Logged By: B. Lary

110135/GP18.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt.						Hole was backfilled with bentonite chips which were hydrated after placement.
	Dry, brown, sandy gravel FILL.				24		
5	Damp to moist, brown, interbedded SILT and silty, micaceous, fine-grained SAND.						HVOCs
	Collected vapor sample in tedlar bag.	5.5	GP19/ 7-8		22		
	1.0-inch layer of black, sandy GRAVEL.						
10	Rootlet.						
			GP19/ 11-12		7.5		
15	Moist, gray-brown, micaceous, medium-grained SAND.						
			GP19/ 15-16		25		
						WD	
20	Collected groundwater sample GP19/GW16-20 from screened interval at 16.0-20.0 feet.						
	Total depth = 20.0 feet.						

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level; WD while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/5/00

Drilling Completed: 6/5/00

Logged By: B. Lary

10135GP19.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Asphalt. Dry, brown and black, sandy gravel FILL and asphalt.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	<div style="border: 1px solid black; padding: 2px;">HVOCs</div>
5	Moist, brown, interbedded sandy SILT and silty, micaceous SAND.		GP20/ 4-5					
6.5	Collected vapor sample in tedlar bag.	6.5	GP20/ 7-8		31			
10	Moist to wet at 11.0 feet.		GP20/ 11-12		17			
15	Interbedded moist and wet, brown, silty SANDS and sandy SILTS.		GP20/ 15-16		23			
16.0-20.0	1.0-inch layer of brown and black, sandy GRAVEL. Collected groundwater sample GP20/GW16-20 from screened interval at 16.0-20.0 feet.					WD		
20	Total depth = 20.0 feet.							

LEGEND

 2.0-Inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
 Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

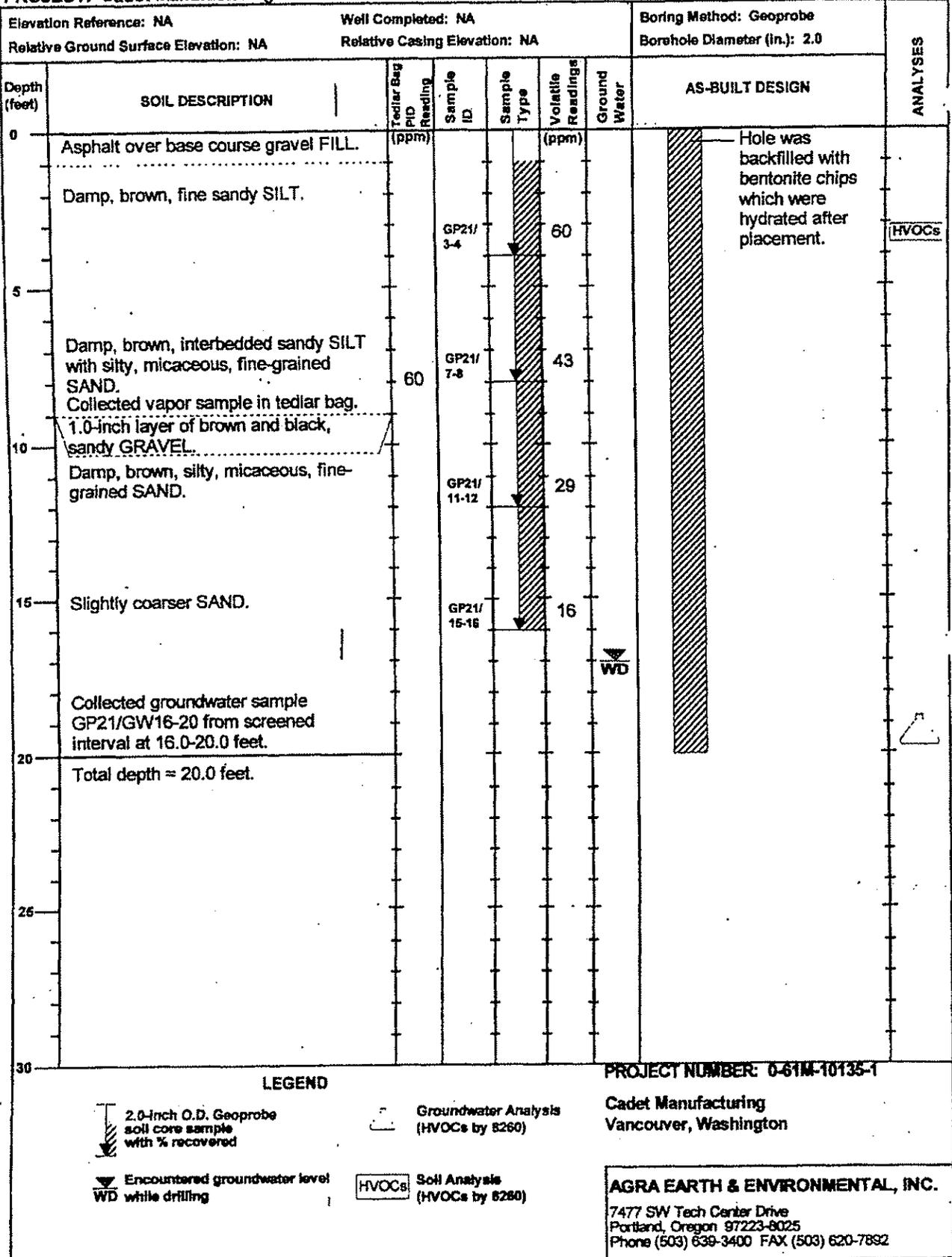
7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/5/00

Drilling Completed: 6/5/00

Logged By: B. Lary

110135/GP20.DRW



LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
Vancouver, Washington

 Encountered groundwater level WD while drilling

HVOCs

 Soil Analysis (HVOCs by 8260)

AGRA EARTH & ENVIRONMENTAL, INC.

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/5/00

Drilling Completed: 6/5/00

Logged By: B. Lary

110139GP21.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0				
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Asphalt over dry, brown, base course gravel FILL.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
	Dry, brown, micaceous, fine sandy SILT.		GP22/ 3-4		50			<div style="border: 1px solid black; padding: 2px;">HVOCs.</div>
5	Interbedded SAND and SILT.							
	Collected vapor sample in tedlar bag.	33	GP22/ 7-8		34			
	1.0-inch layer of black and brown, sandy GRAVEL.							
10	Slightly coarser SAND.		GP22/ 11-12		27			
15	Moist.		GP22/ 15-16		11			

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface and vegetation.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium brown SILT with organics.				0.0		
10							
15							
20	Collected groundwater sample GP24/GW20-24 from screened interval at 20.0-24.0 feet.					WD	
25	Total depth = 24.0 feet.						
30							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater Analysis (HVOCs by 8260)
-  Encountered groundwater level while drilling
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01 Drilling Completed: 3/15/01 Logged By: J. Menken 110135/GP24.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface and vegetation.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown SILT.				0.0		
10	SILT grading to SAND at bottom.						
20						WD	
25	Collected groundwater sample GP25/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level WD while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

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Portland, Oregon 97223
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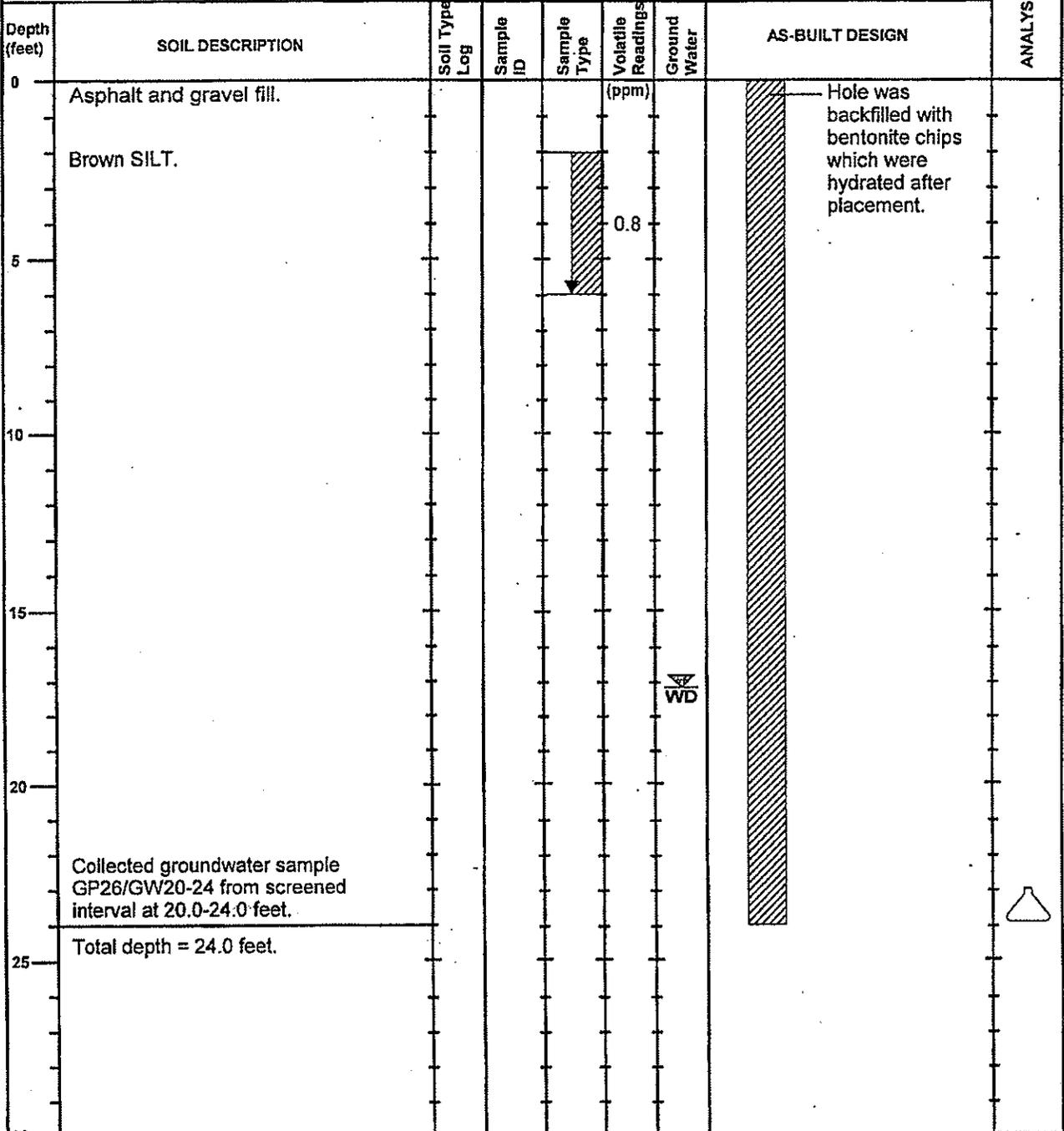
Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

110135GP25.DRW

Elevation Reference: NA	Well Completed: NA	Boring Method: Geoprobe
Relative Ground Surface Elevation: NA	Relative Casing Elevation: NA	Borehole Diameter (in.): 2.0



LEGEND		PROJECT NUMBER: 0-61M-10135-5 T4	
2.0-inch O.D. Geoprobe soil core sample with % recovered.	Groundwater Analysis (HVOCs by 8260)	Cadet Manufacturing Vancouver, Washington	
Encountered groundwater level while drilling	Soil Analysis (HVOCs by 8260)		
		AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892	

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135GP26.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Concrete.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5	Brown, sandy SILT. SAND.						
10							
15						WD	
20							
25	Collected groundwater sample GP27/GW20-24 from screened interval at 20.0-24.0 feet.						
	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Encountered groundwater level
WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

110135/GP27.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, slightly micaceous SILT. SAND.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP28/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Encountered groundwater level WD while drilling
- HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

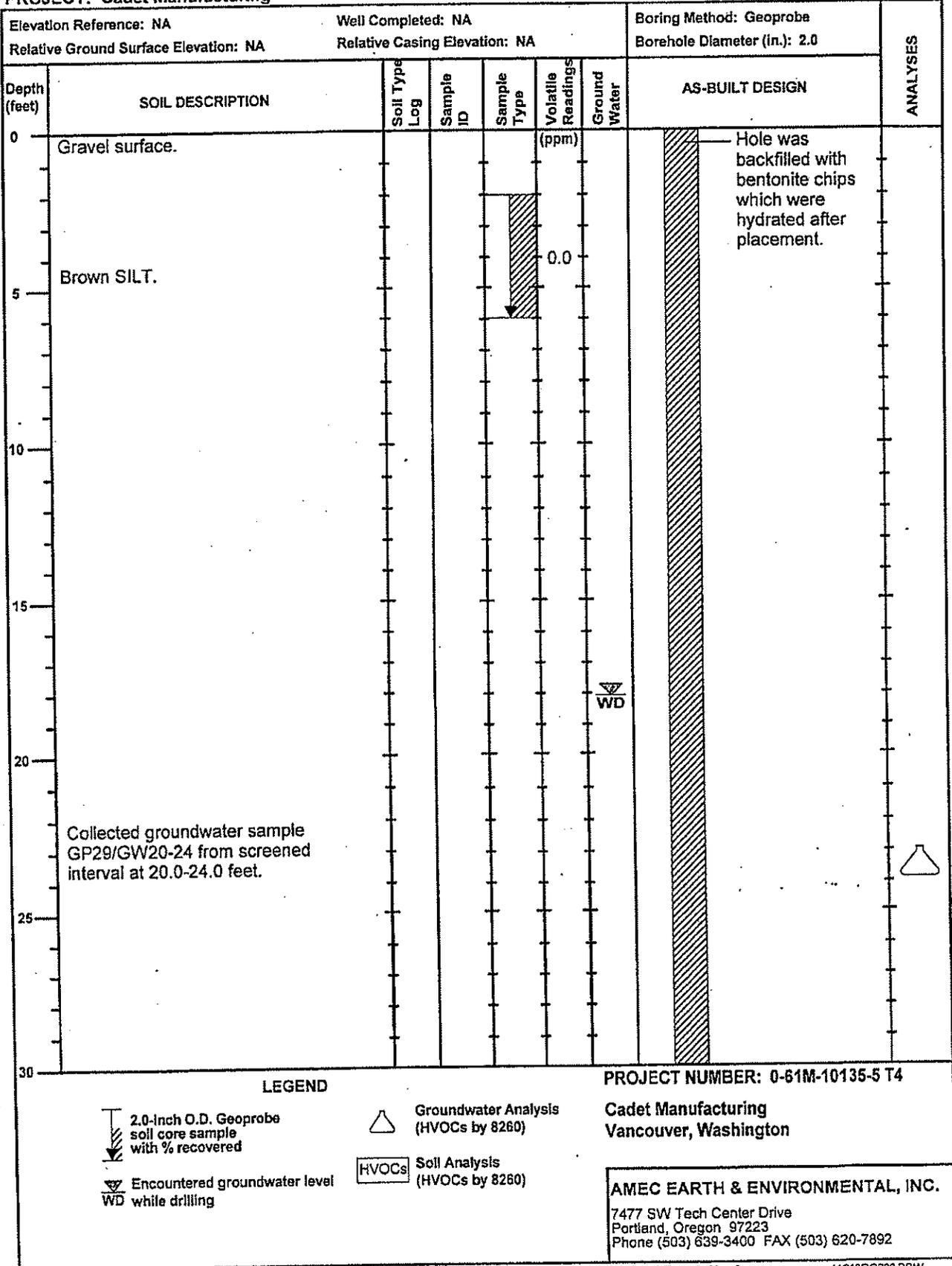
AMEC EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 638-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

M0135GP28.DRW



LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135GP29.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
35							
40							
45	<p>Collected groundwater sample GP29/GW40-44 from screened interval at 40.0-44.0 feet.</p> <p>Total depth = 44.0 feet.</p>						
50							
55							
60							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 539-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Manken

V0135/GP29P/G2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
0 - 5	Brown with gray staining in upper 2.0 inches, medium-grained, silty SAND.				0.0		
5					0.0		
10							
15						WD	
20							
20.0 - 24.0	Collected groundwater sample GP30/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135GP30.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	SILT grading into SAND.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP31/GW20-24 from screened interval at 20.0-24.0 feet.						
30							

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)
- Encountered groundwater level WD while drilling

PROJECT NUMBER: 0-81M-10135-5 T4

**Cadet Manufacturing
Vancouver, Washington**

AMEC EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

10135GP31.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
35							
40	Collected groundwater sample GP31/GW40-44 from screened interval at 40.0-44.0 feet.						
45	Total depth = 44.0 feet.						
50							
55							
60							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

110135GP31PG2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5	Brown SILT.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP32/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater Analysis (HVOCs by 8260)
-  Encountered groundwater level WD while drilling
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

10135GP32.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, micaceous, clayey SILT.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP33/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level WD while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

10135/GP33.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, clayey SILT.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP34/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND		PROJECT NUMBER: 0-61M-10135-5 T4	
	2.0-inch O.D. Geoprobe soil core sample with % recovered		Groundwater Analysis (HVOCs by 8260)
	Encountered groundwater level WD while drilling		HVOCs Soil Analysis (HVOCs by 8260)
		Cadet Manufacturing Vancouver, Washington	
		AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892	

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

V10135/GP34.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, slightly micaceous, clayey SILT.				0.0		
10							
15						WD	
20							
25	Collected groundwater sample GP35/GW20-24 from screened interval at 20.0-24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
Vancouver, Washington

 Encountered groundwater level while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
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Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

110135/GP35.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
30							 Hole was backfilled with bentonite chips which were hydrated after placement.		
35									
40	Collected groundwater sample GP35/GW40-44 from screened interval at 40.0-44.0 feet.								
45	Total depth = 44.0 feet.								
50									
55									
60									

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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7477 SW Tech Center Drive
Portland, Oregon 97223
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Drilling Started: 3/14/01 Drilling Completed: 3/14/01 Logged By: J. Menken 110135/GP35PG2 DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5	Medium stiff, damp, medium brown SILT with low plasticity.				0.4		
10							
15							
20	Collected groundwater sample GP36/GW22 from screened interval at 18.0-22.0 feet.					 WD	
25	Total depth = 22.0 feet.						
30							

LEGEND

 2.0-Inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135IGP36.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, damp, medium brown SILT with low plasticity.				1.5		
10							
15							
20	Collected groundwater sample GP37/GW22 from screened interval at 18.0-22.0 feet.					WD	
25							
30							

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Encountered groundwater level WD while drilling
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135/GP37.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
35							
40	<p>Collected groundwater sample GP37/GW40 from screened interval at 36.0-40.0 feet in separate boring within approximately 1.0 foot of boring GP37.</p> <p>Total depth = 40.0 feet.</p>						
45							
50							
55							
60							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

10135GP37PG2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	6.0-inch layer of concrete.						Hole was backfilled with bentonite chips which were hydrated after placement.
0 - 24.0	Brown, sandy SILT.						
20.0 - 24.0	Collected groundwater sample GP38/GW20-24 and duplicate from screened interval at 20.0-24.0 feet.						
24.0	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

 Encountered groundwater level WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

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7477 SW Tech Center Drive
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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: J. Menken

V0135/GP38.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, micaceous SILT.				0.0		
10							
15						WD	
20	Collected groundwater sample GP39/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135IGP39.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Gravel surface.						 Hole was backfilled with bentonite chips which were hydrated after placement.	
5	Brown, micaceous SILT.				0.0			
10								
15						WD		
20								
25	Collected groundwater sample GP40/GW20-24 from screened interval at 20.0-24.0 feet.							
25	Total depth = 24.0 feet.							
30								

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135/GP40.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Stains on gravel surface near furnace area. Brown SILT.				0.0		Hole was backfilled with bentonite chips which were hydrated after placement.
5							
10							
15							
20						WD	
25	Collected groundwater sample GP41/GW20-24 from screened interval at 20.0-24.0 feet.						
30							
<p>LEGEND</p> <p> 2.0-inch O.D. Geoprobe soil core sample with % recovered</p> <p> Encountered groundwater level WD while drilling</p> <p> Groundwater Analysis (HVOCs by 8260)</p> <p> Soil Analysis (HVOCs by 8260)</p>				<p>PROJECT NUMBER: 0-61M-10135-5 T4</p> <p>Cadet Manufacturing Vancouver, Washington</p> <p>AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892</p>			

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

V0135/GP41.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (In.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 Hole was backfilled with bentonite chips which were hydrated after placement.	
35								
40	Collected groundwater sample GP41/GW40-44 from screened interval at 40.0-44.0 feet.							
45	Total depth = 44.0 feet.							
50								
55								
60								

LEGEND		PROJECT NUMBER: 0-61M-10135-5 T4	
 2.0-inch O.D. Geoprobe soil core sample with % recovered	 Groundwater Analysis (HVOCs by 8260)	Cadet Manufacturing Vancouver, Washington	
 Encountered groundwater level while drilling	 Soil Analysis (HVOCs by 8260)		
		AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892	

Drilling Started: 3/15/01 Drilling Completed: 3/15/01 Logged By: J. Menken V0135/GP41PG2.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Asphalt and gravel FILL.						Hole was backfilled with bentonite chips which were hydrated after placement.	
0 - 5	Medium stiff, moist, medium brown, sandy SILT.				0.0			
5 - 20								
20.0 - 24.0	Collected groundwater sample GP42/GW24 from screened interval at 20.0-24.0 feet.					WD		
24.0 - 25.0	Total depth = 24.0 feet.							
25 - 30								

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)
- Encountered groundwater level WD while drilling

PROJECT NUMBER: 0-61M-10135-5 T4

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 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01 Drilling Completed: 3/15/01 Logged By: K. Finucane V10135GP42.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						 Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, damp, medium brown SILT with low plasticity.				0.0		
10							
15							
20	Collected groundwater sample GP43/GW22 from screened interval at 18.0-22.0 feet.						
25	Total depth = 22.0 feet.						
30							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater Analysis (HVOCs by 8260)
-  Encountered groundwater level while drilling
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/14/01 Drilling Completed: 3/14/01 Logged By: K. Finucane 110135GP43.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, damp, medium brown SILT with low plasticity. Organics (wood) at 4.0 feet.				0.0		
10							
15							
20	Collected groundwater sample GP44/GW22 from screened interval at 18.0-22.0 feet.					WD	
25	Total depth = 22.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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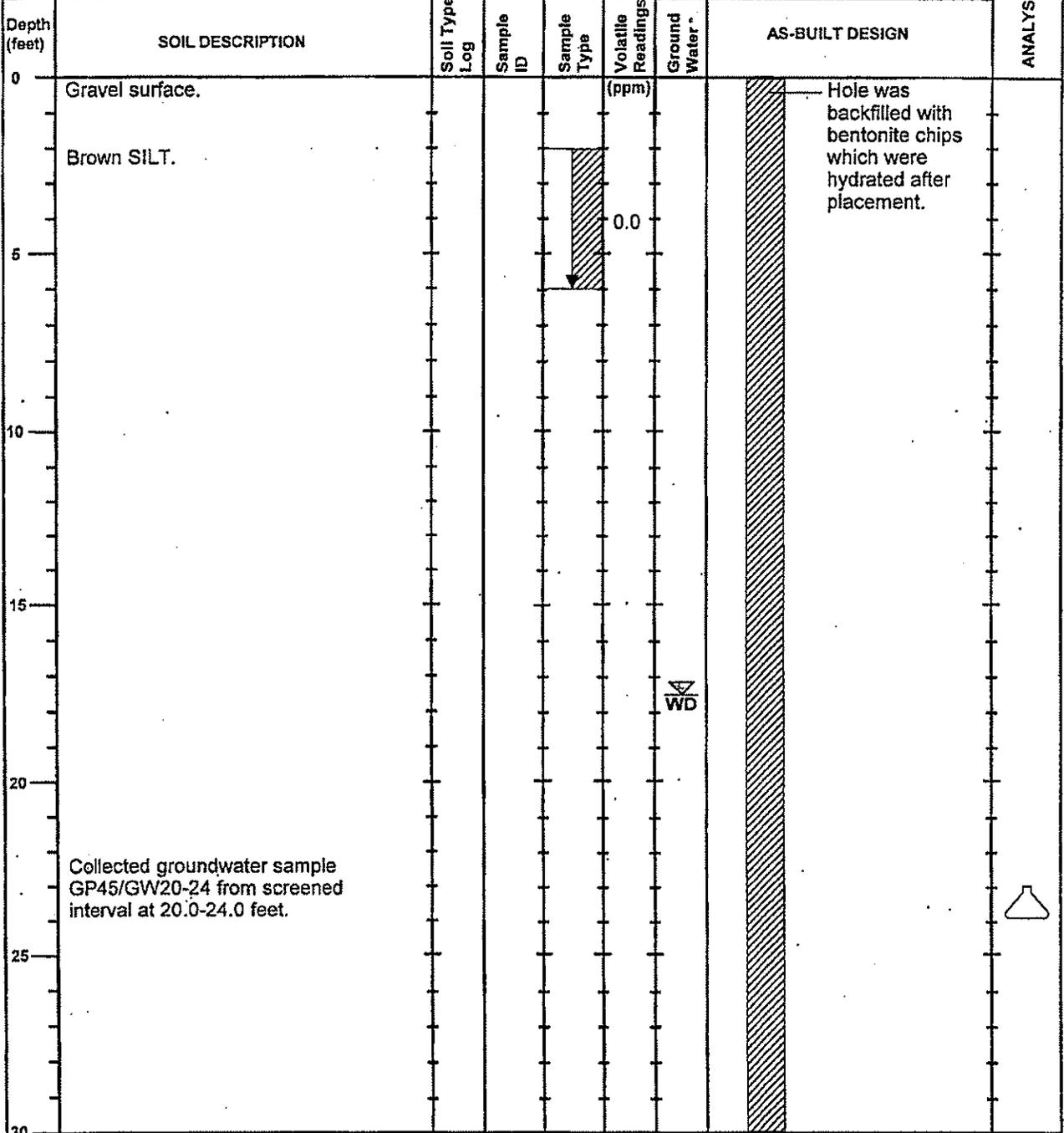
Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135/GP44 DRW

Elevation Reference: NA	Well Completed: NA	Boring Method: Geoprobe
Relative Ground Surface Elevation: NA	Relative Casing Elevation: NA	Borehole Diameter (in.): 2.0



LEGEND		PROJECT NUMBER: 0-61M-10135-5 T4
 2.0-inch O.D. Geoprobe soil core sample with % recovered  Encountered groundwater level WD while drilling	 Groundwater Analysis (HVOCs by 8260)  Soil Analysis (HVOCs by 8260)	Cadet Manufacturing Vancouver, Washington AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892
Drilling Started: 3/15/01	Drilling Completed: 3/15/01	Logged By: J. Menken 110135GP45.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 Hole was backfilled with bentonite chips which were hydrated after placement.	
35								
40								
45	Collected groundwater sample GP45/GW40-44 from screened interval at 40.0-44.0 feet. Total depth = 44.0 feet.							
50								
55								
60								

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level while drilling

-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Portland, Oregon 97223
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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135GP45PG2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, slightly micaceous SILT.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP46/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington**

AMEC EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135GP46.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, moist, medium brown, sandy SILT.						
10							
15							
20	Collected groundwater sample GP47/GW22 from screened interval at 18.0-22.0 feet.					WD	
25	Total depth = 22.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

10135/GP47.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, very fine-grained, sandy SILT.				1.5		
10							
15							
20						WD	
25	Collected groundwater sample GP48/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135/GP48.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown SILT grading to sandy SILT at 5.0-6.0 feet.				1.2		
10							
15							
20						WD	
25	Collected groundwater sample GP49/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level WD while drilling
-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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7477 SW Tech Center Drive
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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

10135/GP49.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, micaceous, sandy SILT.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP50/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
Vancouver, Washington

 Encountered groundwater level WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: J. Menken

110135/GP50.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Soft, damp, medium brown, sandy SILT.				0.0		
10							
15							
20	Collected groundwater sample GP51/GW22 from screened interval at 18.0-22.0 feet.					WD	
	Total depth = 22.0 feet.						
25							
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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Portland, Oregon 97223
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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135/GP51.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Soft, damp, medium brown, sandy SILT.				0.0		
10							
15							
20	Collected groundwater sample GP52/GW22 from screened interval at 18.0-22.0 feet.					WD	
	Total depth = 22.0 feet.						
25							
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

 Encountered groundwater level WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135GP52.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Very soft/very loose, medium brown, sandy SILT/silty SAND.				0.0		
10							
15							
20	Collected groundwater sample GP53/GW22 from screened interval at 18.0-22.0 feet.					WD	
	Total depth = 22.0 feet.						
25							
30							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level while drilling

-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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Portland, Oregon 97223
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Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135/GP53.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5	Loose, damp, medium brown, fine-grained, silty SAND.						
10							
15							
20	Collected groundwater sample GP54/GW22 from screened interval at 18.0-22.0 feet.					WD	
	Total depth = 22.0 feet.						
25							
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Encountered groundwater level WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

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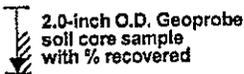
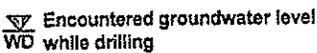
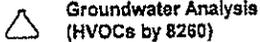
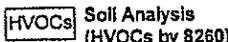
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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

110135/GP54.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Soft, medium brown, sandy SILT.				0.6		
10							
15							
20	Collected groundwater sample GP55/GW22 from screened interval at 18.0-22.0 feet.						
	Total depth = 22.0 feet.						
25							
30							
LEGEND  2.0-inch O.D. Geoprobe soil core sample with % recovered  Encountered groundwater level WD while drilling  Groundwater Analysis (HVOCs by 8260)  Soil Analysis (HVOCs by 8260)				PROJECT NUMBER: 0-61M-10135-5 T4 Cadet Manufacturing Vancouver, Washington AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892			

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

10135/GP55.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Loose, damp, medium brown, silty SAND.				0.2		
10							
15							
20	Collected groundwater sample GP56/GW22 from screened interval at 18.0-22.0 feet.					WD	
25							
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

V10135/GP56.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
35								
40	<p>Collected groundwater sample GP56/GW40 from screened interval at 36.0-40.0 feet in separate boring within approximately 1.0 foot of boring GP56.</p> <p>Total depth = 40.0 feet.</p>							
45								
50								
55								
60								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

110135/GP56PG2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium dense, moist, medium brown, fine-grained, silty SAND.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP57/GW24 from screened interval at 20.0-24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Encountered groundwater level WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

110135GP57.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 Hole was backfilled with bentonite chips which were hydrated after placement.	
35								
40	Collected groundwater sample GP57/GW40 and duplicate from screened interval at 36.0-40.0 feet in separate boring within approximately 1.0 foot of boring GP57. Total depth = 40.0 feet.							
45								
50								
55								
60								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

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Vancouver, Washington

 Encountered groundwater level WD while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

V10135/GP57PG2.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Soil and vegetation at surface.						 Hole was backfilled with bentonite chips which were hydrated after placement.	
0-5	Loose, damp, medium brown, silty SAND.				0.2			
20	Collected groundwater sample GP58/GW22 from screened interval at 18.0-22.0 feet.					 WD		
	Total depth = 22.0 feet.							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level WD while drilling
-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

Cadet Manufacturing
 Vancouver, Washington

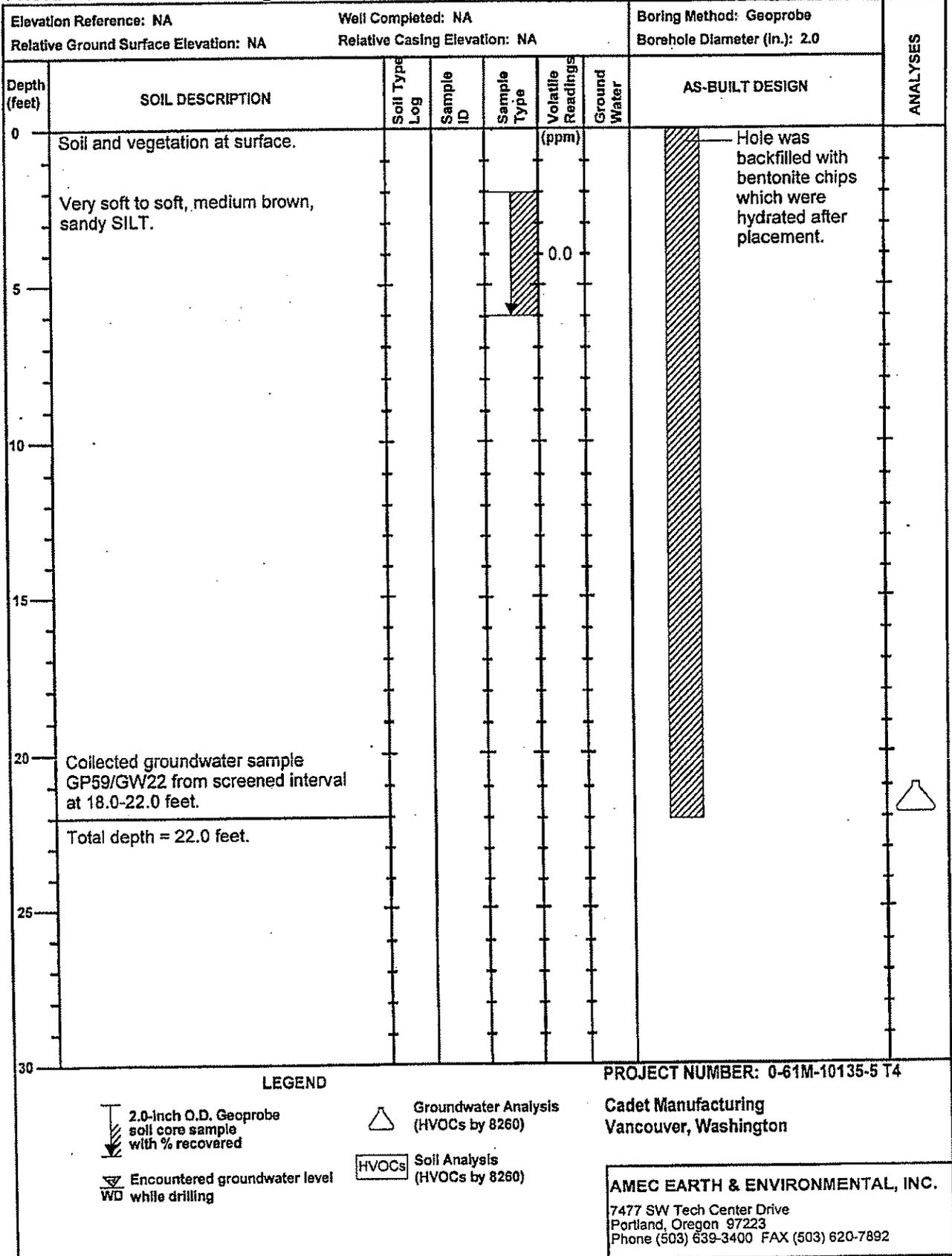
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 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

V10135GP58.DRW



LEGEND	PROJECT NUMBER: 0-61M-10135-5 T4
 2.0-inch O.D. Geoprobe soil core sample with % recovered  Encountered groundwater level while drilling	 Groundwater Analysis (HVOCs by 8260)  Soil Analysis (HVOCs by 8260)
Cadet Manufacturing Vancouver, Washington <hr/> AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892	

Drilling Started: 3/14/01

Drilling Completed: 3/14/01

Logged By: K. Finucane

110135GP59.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Soil and vegetation at surface.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5	Medium dense, moist, medium brown, silty SAND.				0.0		
10							
15							
20						WD	
25	<p>Collected groundwater sample GP60/GW24 from screened interval at 20.0-24.0 feet.</p> <p>Total depth = 24.0 feet.</p>						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

110135GP60.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
4.0-6.0	Brown SILT grading to sandy SILT at 4.0-6.0 feet.				1.3		
20.0-24.0	Collected groundwater sample GP61/GW20-24 from screened interval at 20.0-24.0 feet.					WD	
24.0	Total depth = 24.0 feet.						

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level WD while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135/GP61.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
	Brown SILT.						
5	Grades to very fine-grained SAND at 4.0-6.0 feet.				1.0		
10							
15							
20						WD	
25	Collected groundwater sample GP63/GW20-24 from screened interval at 20.0-24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Encountered groundwater level while drilling

 HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Vancouver, Washington

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

10135/GP63.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
35								
40	Collected groundwater sample GP63/GW40-44 from screened interval at 40.0-44.0 feet.							
45	Total depth = 44.0 feet.							
50								
55								
60								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135GP63PG2.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Asphalt and gravel fill.						 Hole was backfilled with bentonite chips which were hydrated after placement.	
5	Brown SILT.				0.8			
6.0	Grades to very fine-grained SAND at 6.0 feet.							
10								
15								
20						WD		
20.0-24.0	Collected groundwater sample GP64/GW20-24 from screened interval at 20.0-24.0 feet.							
24.0	Total depth = 24.0 feet.							
30								

PROJECT NUMBER: 0-61M-10135-5 T4

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LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater Analysis (HVOCs by 8260)
-  Encountered groundwater level WD while drilling
-  Soil Analysis (HVOCs by 8260)

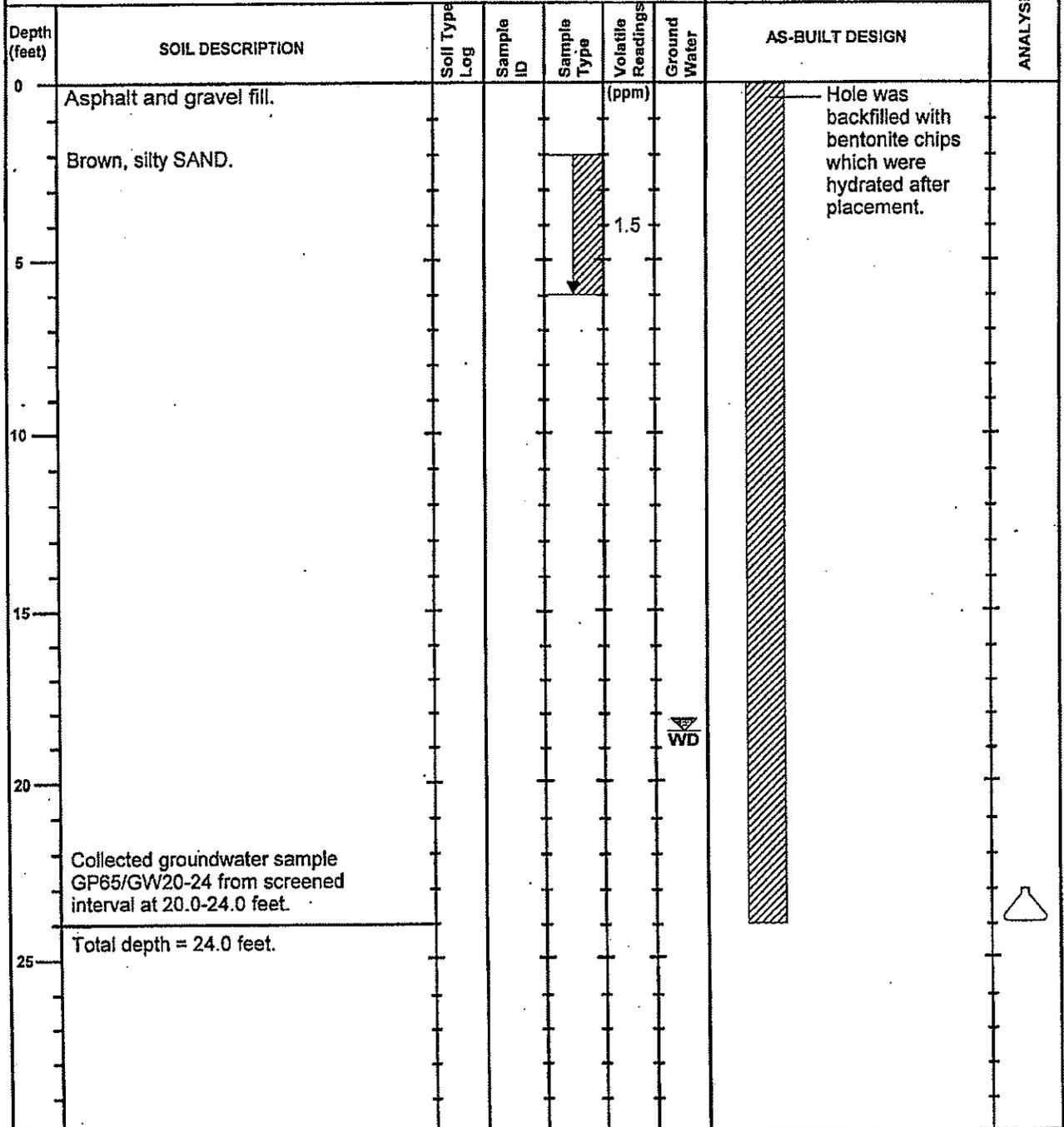
Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135/GP64.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0



LEGEND

- 2.0-Inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Encountered groundwater level while drilling
- HVOCs Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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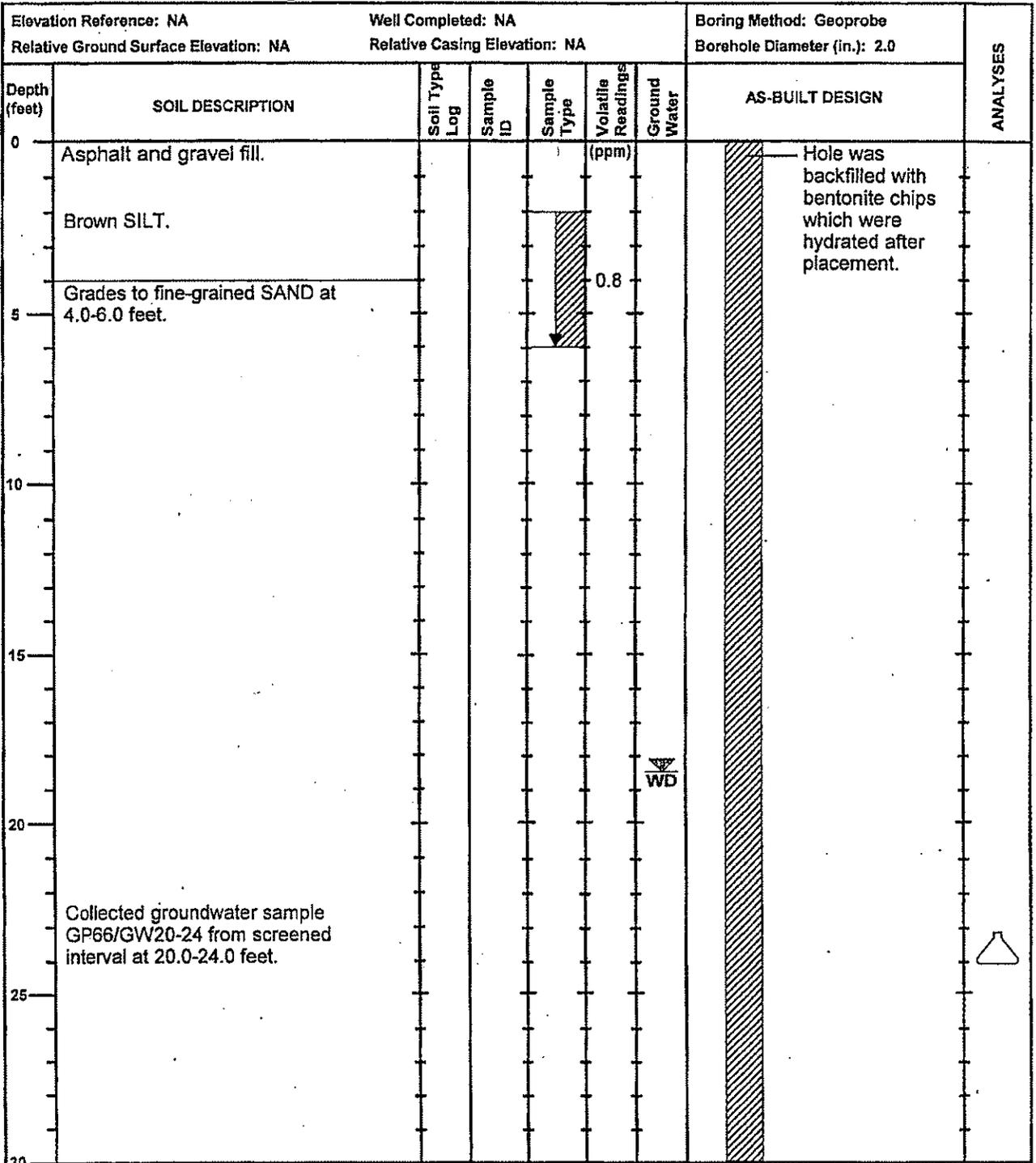
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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135/GP65.DRW



LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)
- Encountered groundwater level WD while drilling

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Drilling Started: 3/16/01 Drilling Completed: 3/16/01 Logged By: J. Menken 110135/GP66.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
35								
40	Collected groundwater sample GP66/GW40-44 from screened interval at 40.0-44.0 feet.							
45	Total depth = 44.0 feet.							
50								
55								
60								

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level while drilling

-  Groundwater Analysis (HVOCs by 8260)
-  HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135GP66PG2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Brown, silty SAND. Coarsening downward from very fine- to fine-grained.				1.8		
10							
15							
20						WD	
25	Collected groundwater sample GP67/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

	2.0-inch O.D. Geoprobe soil core sample with % recovered		Groundwater Analysis (HVOCs by 8260)
	Encountered groundwater level WD while drilling		Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

110135/GP67.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt and gravel fill.						Hole was backfilled with bentonite chips which were hydrated after placement.
	Brown, sandy SILT. Sand content increases with depth.				1.3		
5	Brown, fine-grained SAND.						
10							
15							
20						WD	
	Collected groundwater sample GP68/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Encountered groundwater level WD while drilling

 Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Monken

110135GP68.DRW

Elevation Reference: NA	Well Completed: NA	Boring Method: Geoprobe
Relative Ground Surface Elevation: NA	Relative Casing Elevation: NA	Borehole Diameter (In.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Asphalt and gravel fill.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
	Brown SILT.							
5	Brown, fine- to medium-grained SAND.				1.4			
20.0-24.0	Collected groundwater sample GP69/GW20-24 from screened interval at 20.0-24.0 feet.							
24.0	Total depth = 24.0 feet.							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater Analysis (HVOCs by 8260)
-  Encountered groundwater level WD while drilling
-  Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: J. Menken

W0135GP69.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt and gravel FILL.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, moist, medium brown, sandy SILT.				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP70/GW24 from screened interval at 20.0-24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

10135/GP70.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
35								
40	<p>GRAVEL (difficult drilling). Collected groundwater sample GP70/GW40 from screened interval at 36.0-40.0 feet in separate boring within approximately 1.0 foot of boring GP70.</p> <p>Total depth = 40.0 feet.</p>							
45								
50								
55								
60								

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level WD while drilling
-  Groundwater Analysis (HVOCs by 8280)
-  Soil Analysis (HVOCs by 8280)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

W0135/GP70/G2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt and gravel FILL.						Hole was backfilled with bentonite chips which were hydrated after placement.
0 - 5	Medium stiff, moist, medium brown SILT.				0.6		
18.0 - 22.0	Collected groundwater sample GP71/GW22 from screened interval at 18.0-22.0 feet.					WD	
Total depth = 22.0 feet.							

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level WD while drilling

Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

10135/GP71.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Asphalt and gravel FILL.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
0 - 5	Medium stiff, damp, medium brown SILT.		GP72/2-6		4.4			
5 - 10	Medium dense, moist, medium brown, fine-grained, silty SAND.		GP72/8-10		8.6			
10 - 15	Loose, moist, medium brown, medium-grained SAND.		GP72/10-14		17			
15 - 18			GP72/14-18		58			
18.0 - 22.0	Collected groundwater sample GP72/GW22 from screened interval at 18.0-22.0 feet.							
22.0	Total depth = 22.0 feet.							

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  Encountered groundwater level WD while drilling
-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01 Drilling Completed: 3/16/01 Logged By: K. Finucane 10135/GP72.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt and gravel FILL.						Hole was backfilled with bentonite chips which were hydrated after placement.
	Brown SILT.				1.5		
5	Sandy SILT at 5.0-6.0 feet.						
10							
15							
20						WD	
	Collected groundwater sample GP73/GW20-24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

110135/GP73.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt and gravel FILL.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, damp, medium brown SILT.				0.0		
10							
15							
20	Collected groundwater sample GP74/GW22 from screened interval at 18.0-22.0 feet.					WD	
25							
30							

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Encountered groundwater level WD while drilling
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/16/01 Drilling Completed: 3/16/01 Logged By: K. Finucane 110135GP74.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (in.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30							 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>	
35								
40	<p>Collected groundwater sample GP74/GW40 from screened interval at 36.0-40.0 feet in separate boring within approximately 1.0 foot of boring GP74.</p> <p>Total depth = 40.0 feet.</p>							
45								
50								
65								
60								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/16/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

110135/GP74PG2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt and gravel FILL						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
6	Medium stiff, damp, medium brown SILT.				0.0		
10							
15							
20						 WD	
25	Collected groundwater sample GP75/GW24 from screened interval at 20.0-24.0 feet. Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level WD while drilling

 Groundwater Analysis (HVOCs by 8280)

 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/18/01

Drilling Completed: 3/16/01

Logged By: K. Finucane

110135/GP75.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Vegetated surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium dense, damp, medium brown, silty SAND with organics (roots).				0.0		
10							
15							
20						WD	
25	Collected groundwater sample GP76/GW24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

10135/GP76.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Vegetated surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
	Medium stiff, damp, medium brown, sandy SILT.				0.0		
5	Medium dense, damp, medium brown, very fine-grained SAND.						
10							
15							
20						WD	
	Collected groundwater sample GP77/GW24 from screened interval at 20.0-24.0 feet.						
25	Total depth = 24.0 feet.						
30							

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Encountered groundwater level WD while drilling
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T4

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

10135/GP77.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Vegetated surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Medium stiff, damp, medium brown, sandy SILT.				0.0		
5	Grades to medium dense, damp, medium brown, fine-grained SAND at 5.0 feet.						
10							
15							
20						WD	
25	Collected groundwater sample GP78/GW26 from screened interval at 22.0-26.0 feet.						
26.0	Total depth = 26.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

110135GP78.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Vegetated surface.						Hole was backfilled with bentonite chips which were hydrated after placement.
5	Loose/soft, dry, medium brown, silty SAND/sandy SILT with some organics (roots).				0.0		
10							
15							
20	Collected groundwater sample GP79/GW22 from screened interval at 18.0-22.0 feet.					WD	
	Total depth = 22.0 feet.						
25							
30							
<p>LEGEND</p> <p> 2.0-inch O.D. Geoprobe soil core sample with % recovered</p> <p> Encountered groundwater level WD while drilling</p> <p> Groundwater Analysis (HVOCs by 8260)</p> <p> Soil Analysis (HVOCs by 8260)</p>				<p>PROJECT NUMBER: 0-61M-10135-5 T4</p> <p>Cadet Manufacturing Vancouver, Washington</p> <p>AMEC EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223 Phone (503) 639-3400 FAX (503) 620-7892</p>			

Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

110135GP79.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Gravel and vegetation at surface.						
5	Loose, dry to slightly moist, medium brown, silty SAND with abundant roots.				0.0		
10							
15							
20	Collected groundwater sample GP80/GW22 from screened interval at 18.0-22.0 feet.					WD	
25	Total depth = 22.0 feet.						
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 HVOCs Soil Analysis (HVOCs by 8260)

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Drilling Started: 3/15/01

Drilling Completed: 3/15/01

Logged By: K. Finucane

110135/GP80.DRW

ENV. DIRECT. PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-81		
									TESTING AND LABORATORY DATA		
0			No soil sampling. Discrete groundwater sampling only.								
5											
10											
15											
20											
25											
30											
35											
40											
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							GP-81 PAGE 1 OF 2	

GP81/GW45
625B for TVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-81	
									TESTING AND LABORATORY DATA	
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-81 PAGE 2 OF 2	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 28/03



△ GP81/GW80
62806 for HVOCs

Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING GDT 2/003

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-82	
									TESTING AND LABORATORY DATA	
0		SM	ASPHALT							
0-20			Brown, fine-grained, silty SAND, grades to medium-grained, micaceous SAND with little silt; moist.		0.3					
20-25		GM/GP	Dense, black, mostly subrounded to subangular, sandy GRAVEL, (0.5-foot and less with occasional 1.0-inch plus), with little silt; wet. (Approximately 30% sand, 70% gravel).							
25-35			Increase in 1.0-inch plus GRAVEL (5-10%). Average gravel size is larger (3/4-inch plus), with very little silt.							
35-40		GM	Very Dense, dark brown, subrounded to rounded, silty, sandy GRAVEL (3/4-inch to 1.0-inch), with coarse-grained sand and some silt (approximately 5%); wet.							
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: B. Lary DRILLING STARTED: 6/25/2002 DRILLING COMPLETED: 6/25/2002						REMARKS: Contacts are approximate based on limited sampling and drilling characteristics.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7882					GP-82		PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-82	
									TESTING AND LABORATORY DATA	
0		GM	Very Dense, dark brown, subrounded to rounded, silty, sandy GRAVEL (3/4-inch to 1.0-inch), with coarse-grained sand and some silt (approximately 5%); wet.							
4			More SAND with occasional large gravel.							
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600			ELEVATION REFERENCE: NA			REMARKS: Contacts are approximate based on limited sampling and drilling characteristics.				
BOREHOLE DIAMETER: 1.8 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: B. Lary										
DRILLING STARTED: 6/25/2002										
DRILLING COMPLETED: 6/25/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.							
2-61M-10135			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
						GP-82				

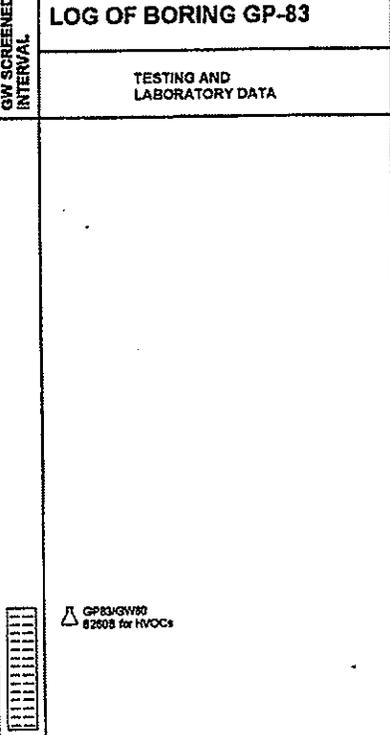
ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2003

GP82/GWB
E260B for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-83	
									TESTING AND LABORATORY DATA	
0		SC	ASPHALT							
0-3.0			Medium brown, silty, fine-grained SAND; moist.		2.1					
3.0-15.0			Loose, dark brown, medium-grained, micaceous SAND, with lithic clasts; wet. Grain-size increases.		3.0					
15.0-24.0			Loose, dark brown, coarse-grained, well-sorted SAND, with abundant lithics (quartz, mica); wet.							
24.0-29.0		GM	Green, red, brown, light gray (multi-colored), subrounded to subangular, clean (no silt or sand) GRAVEL (mostly 1/8-inch to 1/4-inch), with abundant cobbles (3/4-inch to 1.5-inch); wet.		0.5					
29.0-40.0			GRAVEL, with increased medium brownish gray silt.							
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/28/2002 DRILLING COMPLETED: 6/28/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS:				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-83 PAGE 1 OF 2		

ENV. DIRECT. PUSH BORING. 10135.GPJ ENVIRONMENTAL BORING.GDT. 2/9/03

GP83GM40
B2808 for HVOCs

DEPTH (ft logs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-83	
									TESTING AND LABORATORY DATA	
40		GM	Green, red, brown, light gray (multi-colored), subrounded to subangular, clean (no silt or sand) GRAVEL (mostly 1/8-inch to 1/4-inch), with abundant cobbles (3/4-inch to 1.5-inch); wet.							
45			Loose GRAVEL, with coarse-grained sand, some silt. Grain-size is smaller than above (pebbles up to 1.0 inch).							
50			Loose GRAVEL and very coarse-grained SAND, with no silt. (Gravel (20%) up to 1.5-inch, sand (80%) 1/8-inch to 1/4-inch.)							
55			GRAVEL to very coarse-grained SAND.							
60			Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.							
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600			ELEVATION REFERENCE: NA			REMARKS:				
BOREHOLE DIAMETER: 4.6 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: K. Finucane										
DRILLING STARTED: 6/28/2002										
DRILLING COMPLETED: 6/28/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-83		
2-61M-10135								PAGE 2 OF 2		

ENV. DIRECT PULSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/9/03

ENV. DIRECT. PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT. 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-85
									TESTING AND LABORATORY DATA
0			<p>CONCRETE No soil sampling. Discrete groundwater sampling only.</p>						
5									
10									
15									
20							▽		
25									
30									
35									
40									
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002						REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-85 PAGE 1 OF 2	

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-85		
									TESTING AND LABORATORY DATA		
0											
5											
10											
15											
20											
25											
30											
35											
40											
45											
50											
55											
60											
65											
70											
75											
80											
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-85		PAGE 2 OF 2

ENV. DIRECT. PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

△ GP85/GH80
62608 for HVOCs

Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with concrete.

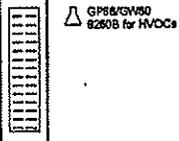
ENV. DIRECT. PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/9/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-86
									TESTING AND LABORATORY DATA
0			Grassy field.						
0			No soil sampling. Discrete groundwater sampling only.						
5									
10									
15							▽		
20									
25									
30									
35									
40									
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002						REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-86 <small>PAGE 1 OF 2</small>	

△ GP86/GW40
62603 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-86		
									TESTING AND LABORATORY DATA		
5											
10											
15											
20											
25											
30											
35											
40											
45											
50											
55											
60											
65											
70											
75											
80											
BORING METHOD: Geoprobe 8600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002				REMARKS: No discrete soil samples were collected.							
Cadet Manufacturing 2-61M-10135				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-86		PAGE 2 OF 2

ENV DIRECT PUSH BORING 18155.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

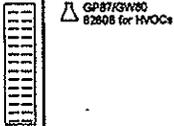
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-87	
									TESTING AND LABORATORY DATA	
0			Grassy field. No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002			REMARKS: No discrete soil samples were collected.							
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-87		



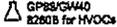
GP87/GH40
62806 for TVOCs

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-87	
									TESTING AND LABORATORY DATA	
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6800 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-87		



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-88
									TESTING AND LABORATORY DATA
0			Grassy field. No soil sampling. Discrete groundwater sampling only.						
5									
10									
15									
20									
25									
30									
35									
40									
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 8/27/2002 DRILLING COMPLETED: 6/27/2002			REMARKS: No discrete soil samples were collected.						
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-88 PAGE 1 OF 2	

ENV. DIRECT PUSH BORING 10195.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-88	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/27/2002 DRILLING COMPLETED: 6/27/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-88 PAGE 2 OF 2		

ENV. DIRECT. PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

△ GP88/GW00
#2509 for HVOc

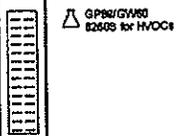
Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-89	
									TESTING AND LABORATORY DATA	
0			Grassy field. No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Flinucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002							REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-89 PAGE 1 OF 2	

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-89
									TESTING AND LABORATORY DATA
0									
5									
10									
15									
20									
25									
30									
35									
40									
45									
50									
55									
60									
65									
70									
75									
80									
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/26/2002				ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-89	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/6/03



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-90
									TESTING AND LABORATORY DATA
0			Grassy field. No soil sampling. Discrete groundwater sampling only.						
5									
10									
15									
20									
25									
30									
35									
40									
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/27/2002 DRILLING COMPLETED: 6/27/2002				REMARKS:		No discrete soil samples were collected.			
Cadet Manufacturing 2-81M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-90 PAGE 1 OF 2	

△ GP90/GW20
6280B for HVOCs

△ GP90/GW40
6280B for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-90	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/27/2002 DRILLING COMPLETED: 6/27/2002									REMARKS: No discrete soil samples were collected.	
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-90 PAGE 2 OF 2	

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

△ GP90/GW80
8200B for HVOCs

Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV. DIRECT. PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

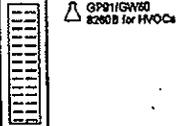
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-91	
									TESTING AND LABORATORY DATA	
0			Grassy field. No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6500 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/27/2002 DRILLING COMPLETED: 6/27/2002							REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-91 PAGE 1 OF 2	

△ GP91/GW20
82008 for HVOCs

△ GP91/GW40
82008 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-91	
									TESTING AND LABORATORY DATA	
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/27/2002 DRILLING COMPLETED: 6/27/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-91 PAGE 2 OF 2		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-92	
									TESTING AND LABORATORY DATA	
0		SM	ASPHALT							
5										
10			Medium dense, brown, fine- to medium-grained, micaceous, silty SAND; damp to moist.		0.1					
15			No additional soil sampling. Discrete groundwater sampling only.							
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: B. Lary DRILLING STARTED: 6/25/2002 DRILLING COMPLETED: 6/25/2002				REMARKS: Contacts are approximate based on limited sampling and drilling characteristics.						
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-92		

GP92/GH40
82606 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-92		
									TESTING AND LABORATORY DATA		
0											
5											
10											
15											
20											
25											
30											
35											
40											
45											
50											
55											
60											
65											
70											
75											
80											
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: B. Lary DRILLING STARTED: 6/26/2002 DRILLING COMPLETED: 6/25/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Contacts are approximate based on limited sampling and drilling characteristics.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-92		PAGE 2 OF 2	

ENV DIRECT PUSH BORING 10135 GFL ENVIRONMENTAL BORING GDT 2/003

△ GP92/GW00
#2625 for HYOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-93	
									TESTING AND LABORATORY DATA	
0		SM	ASPHALT							
5			Medium dense, brown, fine- grading to medium-grained, micaceous, silty SAND; damp to slightly moist. Silt decreases with depth.							
10										
15			No additional soil sampling. Discrete groundwater sampling only.							
20										
25		GM	Sandy GRAVEL (based on drilling character).							
30										
35										
40										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: B. Lary DRILLING STARTED: 6/25/2002 DRILLING COMPLETED: 6/25/2002				REMARKS: Actual lithology and contacts are approximate. Some lithology logged by drilling characteristics and resistance.						
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-93 PAGE 1 OF 2		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDI 2/8/03

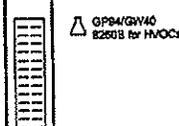
△ GP93/GW40
#2603 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-93	
									TESTING AND LABORATORY DATA	
0		GM	Sandy GRAVEL (based on drilling character).							
60			Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.							
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: B. Lary DRILLING STARTED: 6/25/2002 DRILLING COMPLETED: 6/25/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS: Actual lithology and contacts are approximate. Some lithology logged by drilling characteristics and resistance.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-93 PAGE 2 OF 2		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/00/03

GP93/GM90
 82806 for HVOCs

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-94	
									TESTING AND LABORATORY DATA	
0		ML								
5										
10			Medium brown SILT; moist.	▨	3.8		▽			
12.5			Dark brown, medium-grained SAND layer at 12.5 feet.							
15			No additional soil sampling. Discrete groundwater sampling only.							
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002				REMARKS: Actual lithology and contacts are approximate.						
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-94 <small>PAGE 1 OF 2</small>		

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppmv)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-94	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Actual lithology and contacts are approximate.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-94		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

△ GP94/GWB0
62608 for HVOCs

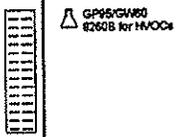
ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-95		
									TESTING AND LABORATORY DATA		
0		ML									
5											
10			Medium stiff, brown, sandy SILT; wet.	▨	0.0		▽				
15			No additional soil sampling. Discrete groundwater sampling only.								
20											
25											
30											
35											
40											
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Actual lithology and contacts are approximate.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-95		PAGE 1 OF 2

△ GP95/GW40
62008 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-95	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Actual lithology and contacts are approximate.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-95		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.LDT 2/2003



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-96	
									TESTING AND LABORATORY DATA	
0										
5										
10		ML	Medium stiff, medium brown SILT; wet.		2.1					
15			No additional soil sampling. Discrete groundwater sampling only.							
20										
25		GM	Dense GRAVEL layer (based on drilling characteristics).							
30										
35										
40										
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002										REMARKS: Actual lithology and contacts are approximate.
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-96	

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING GDT 28003

GP96/GY140
#2608 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppt)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-96	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 6/24/2002 DRILLING COMPLETED: 6/24/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Actual lithology and contacts are approximate.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-96		

ENV. DIRECT. PUSH. BORING. 10135.GPJ ENVIRONMENTAL BORING.GDT. 2/003

△ GP96/GW80
8260B for HVOCl

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-97	
									TESTING AND LABORATORY DATA	
0			ASPHALT No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6606 BOREHOLE DIAMETER: 1.6 (In) LOGGED BY: K. Finucane DRILLING STARTED: 7/9/2002 DRILLING COMPLETED: 7/8/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-97	

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

△ GP97/GW25
8535 Total HVOCs, 82508 for HVOCs

△ GP97/GW40
8535 Total HVOCs, 82508 for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-97
									TESTING AND LABORATORY DATA
40									
45									
50									
55									
60									
65									
70									
75									
80									
BORING METHOD: Geoprobe 6600			ELEVATION REFERENCE: NA			REMARKS: No discrete soil samples were collected.			
BOREHOLE DIAMETER: 1.6 (in)			GROUND SURFACE ELEVATION: NA						
LOGGED BY: K. Finucane									
DRILLING STARTED: 7/9/2002									
DRILLING COMPLETED: 7/9/2002									
Cadat Manufacturing			AMEC Earth & Environmental, Inc.					GP-97	
2-61M-10135			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

GP97/GWRG
B535 Total HVOCL, B2808 for HVOCL

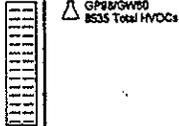
Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with asphalt.

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-98	
									TESTING AND LABORATORY DATA	
0			GRAVEL/ASPHALT No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
85										
90										
BORING METHOD: Geoprobe 6600			ELEVATION REFERENCE: NA			REMARKS: No discrete soil samples were collected.				
BOREHOLE DIAMETER: 1.6 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: K. Finucane										
DRILLING STARTED: 7/9/2002										
DRILLING COMPLETED: 7/9/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.						GP-98	
2-51M-10135			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
PAGE 1 OF 2										

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING GDT 2/9/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-98	
									TESTING AND LABORATORY DATA	
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/9/2002 DRILLING COMPLETED: 7/9/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-98 PAGE 2 OF 2		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with asphalt.

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-99	
									TESTING AND LABORATORY DATA	
0			ASPHALT No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Flucane DRILLING STARTED: 7/9/2002 DRILLING COMPLETED: 7/9/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-99	

△ GP99/GW25
8535 Total HVOCs

△ GP99/GW40
8535 Total HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-99	
									TESTING AND LABORATORY DATA	
55										
60										
65										
70										
75										
80										
			Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with asphalt.							
BORING METHOD: Geoprobe 6600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 7/9/2002 DRILLING COMPLETED: 7/9/2002				REMARKS: No discrete soil samples were collected.						
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-99 PAGE 2 OF 2	

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

 GP99GW60
 8535 Total HVOCs

DEPTH (ft logs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-100	
									TESTING AND LABORATORY DATA	
0			Grass. No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600			ELEVATION REFERENCE: NA			REMARKS: No discrete soil samples were collected.				
BOREHOLE DIAMETER: 1.6 (In)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: K. Finucane										
DRILLING STARTED: 7/10/2002										
DRILLING COMPLETED: 7/10/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-100	
2-61M-10135										

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/6/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-100		
									TESTING AND LABORATORY DATA		
0											
45											
60											
65											
60											
65											
70											
75											
80											
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/10/2002 DRILLING COMPLETED: 7/10/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-100		PAGE 2 OF 2

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/2003


 GP100/GW60
 8535 Total HVOCs

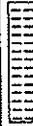
Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

ENV. DIRECT PUSH BORING 101SS.GPJ ENVIRONMENTAL BORING.GBT 2803

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-101	
									TESTING AND LABORATORY DATA	
0			ASPHALT No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 5600 ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (In) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 7/10/2002 DRILLING COMPLETED: 7/10/2002				REMARKS: No discrete soil samples were collected.						
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-101		PAGE 1 OF 2

△ GP101/GW25
8535 Total HVOCs, 8250B for HVOCs

△ GP101/GW40
8535 Total HVOCs, 8250B for HVOCs

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-101		
									TESTING AND LABORATORY DATA		
40											
45											
50											
55											
60											
65											
70											
75											
80											
			Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.								
										 <p>△ GP101/GM60 8535 Total HVOCS, 8280B for HVOCS</p>	
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/10/2002 DRILLING COMPLETED: 7/10/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.					
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-101		PAGE 2 OF 2	

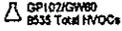
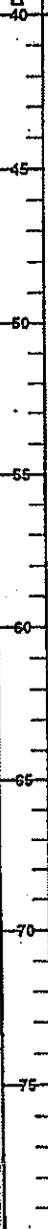
ENV. DIRECT. PUSH BORING. 10135.GPJ. ENVIRONMENTAL BORING.GDT. 2/9/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-102	
									TESTING AND LABORATORY DATA	
0			No soil sampling. Discrete groundwater sampling only.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/10/2002 DRILLING COMPLETED: 7/10/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-81M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					GP-102		

ENV. DIRECT. PULSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 28003

△ GP102/GW25
8535 Total HVOCs

△ GP102/GW40
8535 Total HVOCs

DEPTH (ft bgs)	GRAPHIC LOG USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING GP-102	
								TESTING AND LABORATORY DATA	
0									
5									
10									
15									
20									
25									
30									
35									
40									
45									
50									
55									
60									
65									
70									
75									
80									
		Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.							
									
									
BORING METHOD: Geoprobe 6600 BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Plucane DRILLING STARTED: 7/10/2002 DRILLING COMPLETED: 7/10/2002		ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS: No discrete soil samples were collected.					
Cadet Manufacturing 2-61M-10135		AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						GP-102 PAGE 2 OF 2	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/8/03

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 1.5			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	5.0-inch layer of concrete underlain by GRAVEL.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
	Damp to moist, brown, clayey SILT.		C-1/0.5-2.0	↓	8.7		
	Damp, brown, clayey, fine-grained, micaceous SAND.		C-1/2-4	↓	9.2		
5			C-1/4-6	↓	15		
	Moist.		C-1/6-8	↓	11		
	Slightly sandier.		C-1/8-10	↓	11		
	Fine-grained, silty SAND.		C-1/10-12	↓	6.6		
10			C-1/14-16	↓	5.4		
	Damp, brown, fine- to medium-grained, micaceous SAND with some silt.						
	Damp, brown, interbedded, micaceous, sandy SILT and silty, fine-grained SAND.						
15							8260
20	Collected groundwater sample C-1/GW21 from screened interval at 17.0-21.0 feet.					WD	8260
	Total depth = 21.0 feet due to refusal.						
25							
30							

PROJECT NUMBER: 9-61M-10135-0

LEGEND

	1.5-inch O.D. Geoprobe soil core sample with % recovered		Groundwater Analysis (Test Method Shown)
	Groundwater level at time of drilling		8015 Soil Analysis (Test Method Shown) 8240

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Vancouver, Washington

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Portland, Oregon 97223-8025
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Drilling Started: 10/15/99 Drilling Completed: 10/15/99 Logged By: B. Lary #A10135C1.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 1.5			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	5.0-inch layer of concrete underlain by GRAVEL and coarse-grained SAND.		C-2/0.5-2.0				 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
	Dry, dark gray to brown, clayey, micaceous SILT. Less clay.		C-2/2.4		10		
	Damp, brown, fine, micaceous SILT.		C-2/4.6		8.2		
6			C-2/6.8		10		
	Damp, brown, silty, micaceous SAND.		C-2/8.8		13		
			C-2/8-10		12		
10	Interbedded, moist, medium-grained SAND lenses.		C-2/10-12		11		
	Damp to moist, brown, medium-grained, micaceous SAND.		C-2/17-19		3.8		
20	Collected groundwater sample C-2/GW21.5 from screened interval at 17.5-21.5 feet.					WD	
	Total depth = 21.5 feet due to refusal.						
25							
30							

LEGEND

-  1.5-inch O.D. Geoprobe soil core sample with % recovered
-  Groundwater Analysis (Test Method Shown)
-  Groundwater level at time of drilling
-  Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

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Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/16/99

Drilling Completed: 10/15/99

Logged By: B. Lery

10135C2.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 1.5			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Concrete underlain by GRAVEL and coarse-grained SAND. Dry to damp, brown, fine, sandy, micaceous SILT.						 <p>Hole was backfilled with bentonite chips which were hydrated after placement.</p>
5			C-3/4-6	↓	11		
10	Dry to damp, brown, silty, micaceous SAND.		C-3/8-10	↓	24		
15	Damp, brown, interbedded, sandy SILT and silty SAND.		C-3/12-14	↓	14 91		
20	Collected groundwater sample C-3/GW22 from screened interval at 18.0-22.0 feet.						8260
25	Total depth = 22.0 feet due to refusal.						 8260
30							

LEGEND

 1.5-inch O.D. Geoprobe soil core sample with % recovered

 Groundwater Analysis (Test Method Shown)

 Groundwater level at time of drilling

 8015
8240 Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

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Drilling Started: 10/16/99

Drilling Completed: 10/15/99

Logged By: B. Lary

6110135C3.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Rotohammer/Geoprobe
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borshole Diameter (in.): 1.5

Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	3.5-inch layer of concrete.						Concrete Cap	
0-8	Dry, orangish brown, silty, micaceous SAND.		C4/ 4-6	Soil	12		Hole was backfilled with bentonite chips which were hydrated after placement.	
8-10	Collected vapor sample in tedlar bag.	500	C4/ 8-10	Vapor	148			HVOCs
10-15	Grades to damp.		C4/ 12-14	Soil	61			
15-20	Damp, brown, silty SAND grading to medium-grained SAND.		C4/ 16-18	Soil	13	WD		
20-22	Collected groundwater sample C4/GW-18-22 from screened interval at 18.0-22.0 feet.							
22-22.0	Total depth = 22.0 feet.							

LEGEND

1.5-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level WD while drilling

Groundwater Analysis (HVOCs by 8280)

HVOCs Soil Analysis (HVOCs by 8280)

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/9/00

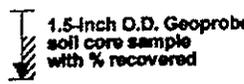
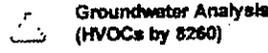
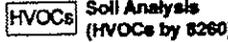
Drilling Completed: 6/9/00

Logged By: L. Wozell

110135C4.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 1.5			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	3.5-inch layer of concrete.....						Concrete Cap
5	Dry, orangish brown, silty, micaceous SAND.		C5/ 4-6	↓	531		Hole was backfilled with bentonite chips which were hydrated after placement.
	Collected vapor sample in tedlar bag.	>2,500	C5/ 8-10	↓	450		
10	Damp, orangish brown, silty SAND.		C5/ 12-14	↓	414		
15	Dry, brownish, fine-grained SAND grading to silty SAND near base.		C5/ 16-18	↓	513		
20	Damp, orangish brown, silty, fine-grained SAND.						
	Collected groundwater sample C5/GW-16-20 from screened interval at 16.0-20.0 feet.						
20	Total depth = 20.0 feet.						
25							
30							

LEGEND

 1.5-inch O.D. Geoprobe soil core sample with % recovered
 Groundwater Analysis (HVOCs by 8260)
 Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 8/9/00 Drilling Completed: 6/9/00 Logged By: L. Woxell 110135C5.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 1.5				
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	3.5-inch layer of concrete.						Concrete Cap	
5	Dry, orangish brown, silty, micaceous SAND.		C6/ 4-6	↓	525		Hole was backfilled with bentonite chips which were hydrated after placement.	HVOCs
10	Collected vapor sample in tedlar bag. Could smell odor. Grades to brown.	>2,500	C6/ 8-10	↓	161			HVOCs
15	Damp, brown, silty, micaceous SAND grading to damp, brown, medium-grained SAND.		C6/ 12-14	↓	243			HVOCs
20	Damp, brown, silty SAND with interlayered medium-grained SAND.		C6/ 16-18	↓	523			HVOCs
25	Collected groundwater sample C6/GW-18-22 from screened interval at 18.0-22.0 feet.							
30	Total depth = 22.0 feet.							

LEGEND

1.5-inch O.D. Geoprobe soil core sample with % recovered

Groundwater Analysis (HVOCs by 8280)

HVOCs Soil Analysis (HVOCs by 8280)

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/9/00

Drilling Completed: 6/9/00

Logged By: L. Wexell

110135C6.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	3.0-inch layer of concrete.						Concrete Cap
6	Collected vapor sample in tedlar bag. Dry, rusty brown, silty, fine-grained SAND.	840	C7/ 4-6	↓	578		Hole was backfilled with bentonite chips which were hydrated after placement.
	Slightly coarser SAND.		C7/ 8-10	↓	110		
	Wet, brown, fine sandy SILT.		C7/ 12-14	↓	213		
	Moist, brown, silty, micaceous, fine-grained SAND.		C7/ 16-18	↓	264		
15	Saturated, dark brown, fine- to medium-grained SAND with some silt.						
20	Collected groundwater sample C7/GW16-20 from screened interval at 16.0-20.0 feet.						
	Total depth = 20.0 feet.						

LEGEND

- 2.0-Inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/9/00

Drilling Completed: 6/9/00

Logged By: B. Lary

W0136C7.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Approximately 3.0-inch layer of concrete.						Concrete Cap
5	Collected vapor sample C8/V4 in tedlar bag and summa canister. Dry, rusty brown, silty, fine-grained SAND.	180	C8/4-8		213		Hole was backfilled with bentonite chips which were hydrated after placement.
10	Sandier.		C8/8-10		165		
16	Moist, fine sandy SILT (1.0 inch), grading to dry, brown, medium-grained SAND.		C8/12-14		153		
20	Wet to moist, brown, silty, fine-grained SAND to sandy SILT. Damp, brown, medium-grained SAND. Collected groundwater sample C8/GW16-20 from screened interval at 16.0-20.0 feet.		C8/16-18		190		
20	Total depth = 20.0 feet.						

LEGEND

- 2.0-inch O.D. Geoprobe soil core sample with % recovered
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)
- Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-1

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Portland, Oregon 97223-8025
Phone (503) 539-3400 FAX (503) 620-7892

Drilling Started: 6/8/00

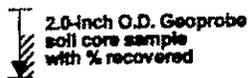
Drilling Completed: 6/9/00

Logged By: B. Lary

110135C8.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatiles Readings	Ground Water	AS-BUILT DESIGN
0	Approximately 3.0-inch layer of concrete.						Concrete Cap
5	Dry, brown, fine sandy SILT over silty SAND. Collected vapor sample C9/V4' in tedlar bag and summa canister	703	C9/ 4-6	94			Hole was backfilled with bentonite chips which were hydrated after placement.
10	Dry, brown, silty, micaceous, fine-grained SAND.		C9/ 8-10	134			
15	Interbedded SILTS and SANDS.		C9/ 12-14	69			
20	Saturated, brown, silty, fine-grained SAND. Collected groundwater sample C9/GW16-20 from screened interval at 16.0-20.0 feet.		C9/ 16-18	643			
20	Total depth = 20.0 feet.						

LEGEND



Groundwater Analysis (HVOCs by 8260)

HVOCs Soil Analysis (HVOCs by 8260)

Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/9/00

Drilling Completed: 6/18/00

Logged By: B. Lary

110135C9.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0				
Depth (feet)	SOIL DESCRIPTION	PID Reading (ppm)	Sample ID	Sample Type	Volatle Readings	Ground Water	AS-BUILT DESIGN	
0							Concrete Cap	
5	Collected vapor sample C10/V4' in summa canister.	58			1.8		Hole was backfilled with bentonite chips which were hydrated after placement.	
10	Medium dense, dry, brown, silty SAND.		C10/ 8-10		2.7			
15	Grades to moist.		C10/ 12-14		1.2			
20	Collected groundwater sample C10/GW22 from screened interval at 18.0-22.0 feet.		C10/ 15-18		3.5			 
25	Total depth = 22.0 feet.							
30								

LEGEND

-  2.0-inch O.D. Geoprobe soil core sample with % recovered
-  No sample recovery
-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)
-  Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-3

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7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/3/00 Drilling Completed: 11/3/00 Logged By: D. Hetherington 110135C10.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatle Readings	Ground Water	AS-BUILT DESIGN
0	Approximately 3.0-inch layer of concrete.						Concrete Cap
5	Collected vapor sample C11/V4' in summa canister. Damp, brown, fine, micaceous, sandy SILT.		C11/ 4-6	29			Hole was backfilled with bentonite chips which were hydrated after placement.
10	Dry, brown, interbedded, fine, micaceous, silty SAND and sandy SILT.		C11/ 8-10	20			
15	Slightly coarser sand.		C11/ 12-14	17			
20	Dry, brown, medium-grained SAND with some silt.		C11/ 16-18	25			
20	Collected groundwater sample C11/GW22 from screened interval at 18.0-22.0 feet.						HVOCs
20	Total depth = 22.0 feet.						
25							
30							

LEGEND

 2.0-Inch O.D. Geoprobe soil core sample with % recovered

* No sample recovery

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

 Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-3

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Vancouver, Washington

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/3/00

Drilling Completed: 11/3/00

Logged By: B. Lary

110135C11.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0				
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN	ANALYSES
0							Concrete Cap	
5	Collected vapor sample C12/V4' in summa canister. Medium stiff, dry, brown, sandy SILT.		C12/4-8	↓	2.3		Hole was backfilled with bentonite chips which were hydrated after placement.	☐
10	Medium dense, dry to damp, brown, silty SAND with silt at 9.5 feet and 10.0 feet (each layer is approximately 1.0 inch thick).		C12/8-10	↓	2.3			
15	Medium dense, damp, brown, silty SAND.		C12/12-14	↓	0.6			
20	Moist to wet, brown, interbedded, sandy SILTS and silty SANDS.		C12/16-18	↓	2.5			HVOCs
20	Collected groundwater sample C12/GW22 from screened interval at 18.0-22.0 feet.							△
25	Total depth = 22.0 feet.							
30								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

• No sample recovery

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

 Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-3

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Drilling Started: 11/3/00

Drilling Completed: 11/10/00

Logged By: D. Hetherington/B. Lary

V10135C12.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES		
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0				
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN	
0							Concrete Cap	
0 - 5	Collected vapor sample C13/V4' in summa canister.						Hole was backfilled with bentonite chips which were hydrated after placement.	
5 - 10	Dry, brown, fine-grained, silty SAND.		C13/ 8-10		30			
10 - 15	Dry, brown, silty SAND.		C13/ 12-14		0.0			
15 - 20	Damp to moist, fine-grained, silty SAND.		C13/ 16-18		0.0			
20 - 22.0	Collected groundwater sample C13/GW22 from screened interval at 18.0-22.0 feet.							
22.0 - 25	Total depth = 22.0 feet.							
25 - 30								

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

• No sample recovery

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs by 8260)

 Soil Vapor Analysis (VOCs by TO-14A)

PROJECT NUMBER: 0-61M-10135-3

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Drilling Started: 11/3/00

Drilling Completed: 11/10/00

Logged By: D. Hetherington

110135/C13.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	Concrete.						Concrete Cap
0-5	Damp, brown, micaceous, fine, sandy SILT.						Hole was backfilled with bentonite chips which were hydrated after placement.
5			C-14/ 4-8'		9.1		HVOCs
10	Damp to dry, brown, micaceous, medium-grained SAND.						
10-15			C-14/ 12-14'		12		HVOCs
20	Collected groundwater sample C-14/GW17.5-21.5' from screened interval at 17.5-21.5 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
20-21.5	Total depth = 21.5 feet.						

PROJECT NUMBER: 0-61M-10135-5

Cadet Manufacturing
Vancouver, Washington

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LEGEND

-  2.0-Inch O.D. Direct Push soil core sample with % recovered
-  Groundwater Analysis (HVOCs by 8260)
-  Groundwater level at time of drilling
-  Soil Analysis (HVOCs by 8260)

Drilling Started: 2/24/01 Drilling Completed: 2/24/01 Logged By: B. Lary I10135/C14.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Vegetation Readings	Ground Water	AS-BUILT DESIGN
0	2.5-inch layer of concrete.						Concrete Cap
0-5	Damp, brown, micaceous, fine, sandy SILT.		C-15/4-6'		2.2		Hole was backfilled with bentonite chips which were hydrated after placement.
5-10	Damp, brown, medium- to fine-grained SAND interbedded with fine sandy SILT.		C-15/12-14'		3.1		
10-22	Collected groundwater sample C-15/GW18-22' from screened interval at 18.0-22.0 feet. Water is turbid but cleaned up slightly. Purged with peristaltic, sampled using inertial pumping.					WD	
22-30	Total depth = 22.0 feet.						

LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Groundwater level at time of drilling

PROJECT NUMBER: 0-61M-10135-5

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Vancouver, Washington

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Drilling Started: 2/24/01

Drilling Completed: 2/24/01

Logged By: B. Lary

110135C15.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	3.0-inch layer of concrete.						Concrete Cap
0 - 5	Damp, brown, micaceous, fine, sandy SILT.		C-16/ 4-6'		19		Hole was backfilled with bentonite chips which were hydrated after placement.
5 - 10							
10	Dry, brown, micaceous, fine- to medium-grained SAND.		C-16/ 12-14'		40		
10 - 20							
20	Collected groundwater sample C-16/GW19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
20 - 23	Total depth = 23.0 feet.						
23 - 30							

LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
Vancouver, Washington

 Soil Analysis (HVOCs by 8260)

 Groundwater level at time of drilling

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Drilling Started: 2/24/01

Drilling Completed: 2/24/01

Logged By: B. Lary

110135/C16.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	Multiple layers of concrete (8.0-10.0 inches). No sample recovery due to concrete caught near bottom of sampler.						Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.
5					0.0		
10	Dry, brown, medium-grained SAND with interbedded sandy SILT.						
15			C-17/12-14'		0.0		
20	Collected groundwater sample C-17/GW19-23' from screened interval at 19.0-23.0 feet. Water is very turbid. Kept drying out during sampling. Purged with peristaltic, sampled using inertial pumping.						
25	Total depth = 23.0 feet.						
30							

LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260, TPH-HCID)

Cadet Manufacturing
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* No sample recovery

 Groundwater level at time of drilling

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Drilling Started: 2/24/01

Drilling Completed: 2/25/01

Logged By: B. Lary

110135IC17.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Direct Push
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Void Ratio Readings	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Approximately 6.0-inch layer of concrete. Damp, brown, micaceous, fine, sandy SILT.						Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.	
5					0.0			
10	Dry, brown, micaceous, medium-grained SAND with some silt.				1.4			
15								
20	Collected groundwater sample C-18/GW19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD		
25	Total depth = 23.0 feet.							
30								

LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Groundwater level at time of drilling
- Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5

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Drilling Started: 2/24/01 Drilling Completed: 2/24/01 Logged By: B. Lary 10135C18.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	Approximately 3.0-inch layer of concrete. Near C-11. No soil sampling. Trying to get groundwater sample.						Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.
6							
10							
15							
20	Collected groundwater sample C-19/GW18-22' from screened interval at 18.6-22.6 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
	Total depth = 22.6 feet.						
25							
30							

LEGEND

WD Groundwater level at time of drilling

△ Groundwater Analysis (HVOCs by 8280)

PROJECT NUMBER: 0-61M-10135-5

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Drilling Started: 2/24/01

Drilling Completed: 2/24/01

Logged By: B. Lary

V0135C19.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatlie Readings	Ground Water	AS-BUILT DESIGN
0	Approximately 3.0-inch layer of concrete. Damp, brown, micaceous, fine, sandy SILT.						Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.
5			C-20/ 4-6'		28		
10	Dry, brown, micaceous, fine- to medium-grained SAND with some silt.						
15			C-20/ 12-14'		15		
20	Collected groundwater sample C-20/GW18-22' from screened interval at 18.0-22.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
25	Total depth = 22.0 feet.						
30							

LEGEND

-  2.0-inch O.D. Direct Push soil core sample with % recovered
-  Groundwater level at time of drilling

-  Groundwater Analysis (HVOCs by 8260)
-  Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-51M-10135-5

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Drilling Started: 2/24/01

Drilling Completed: 2/24/01

Logged By: B. Lary

V10135C20.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	Concrete.						Concrete Cap
0-5	Damp, brown, micaceous, fine, sandy SILT.						Hole was backfilled with bentonite chips which were hydrated after placement.
5					13		
10							
10-15							
15					25		
15-20							
20	Collected groundwater sample C-21/GW19-23' from screened interval at 19.0-23.0 feet. Purged water until began to clear, plenty of water. Purged with peristaltic, sampled using inertial pumping.					WD	
20-25	Total depth = 23.0 feet.						
25							
30							

LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Groundwater level at time of drilling
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5

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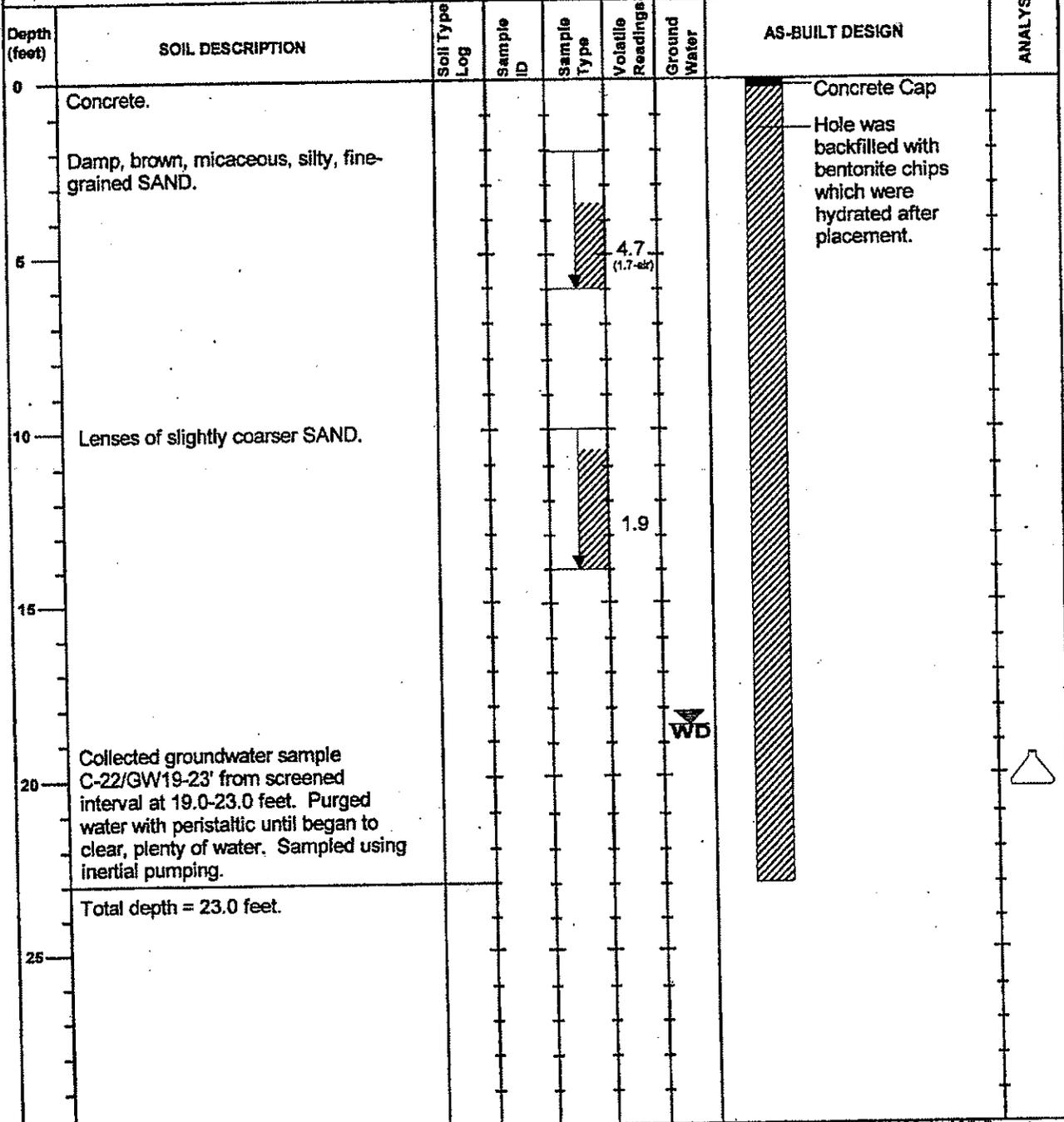
Drilling Started: 2/24/01

Drilling Completed: 2/24/01

Logged By: B. Lary

110135/C21.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Direct Push
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0



LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Groundwater level at time of drilling
- Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5
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Drilling Started: 2/25/01 Drilling Completed: 2/25/01 Logged By: E. Lary V10135/C22.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	Concrete.						Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.
5	Damp, brown, fine, sandy SILT.				0.0		
10	Dry, brown, interbedded sandy SILT and micaceous, medium-grained SAND.				0.0		
15							
20	Collected groundwater sample C-23/GW18.5-22.5' from screened interval at 18.5-22.5 feet. Purged water until it began to clear. Plenty of water. Purged with peristaltic, sampled using inertial pumping.					WD	
25	Total depth = 22.5 feet.						
30							

LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

 Groundwater level at time of drilling

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5

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Drilling Started: 2/24/01

Drilling Completed: 2/24/01

Logged By: B. Lary

V10135/C23.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Direct Push
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (In.): 2.0

Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN	ANALYSES
0	Concrete.						Concrete Cap	
0-5	Damp, brown, micaceous, fine, sandy SILT.		C-24/4-6'		0.8		Hole was backfilled with bentonite chips which were hydrated after placement.	HVOCs
5-10	Dry, brown, micaceous, fine- to medium-grained SAND with interbedded sandy SILT lenses.				0.9			
10-20	Collected groundwater sample C-24/GW19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD		
20-23	Total depth = 23.0 feet.							

LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Groundwater level at time of drilling
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-81M-10135-5

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Drilling Started: 2/25/01

Drilling Completed: 2/25/01

Logged By: B. Lary

H0135C24.DRW

Elevation Reference: NA		Well Completed: NA				Boring Method: Direct Push		ANALYSES
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA				Borehole Diameter (In.): 2.0		
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatle Readings	Ground Water	AS-BUILT DESIGN	
0	Approximately 5.0-inch layer of concrete.						 Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.	
5	Damp, brown, micaceous, fine-grained, silty SAND with organics (grass).			0.9				
10	Slightly coarser SAND.			1.2				
20	Collected groundwater sample C-25/GW19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD		
25	Total depth = 23.0 feet.							
30								

LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Groundwater level at time of drilling

PROJECT NUMBER: 0-61M-10135-5

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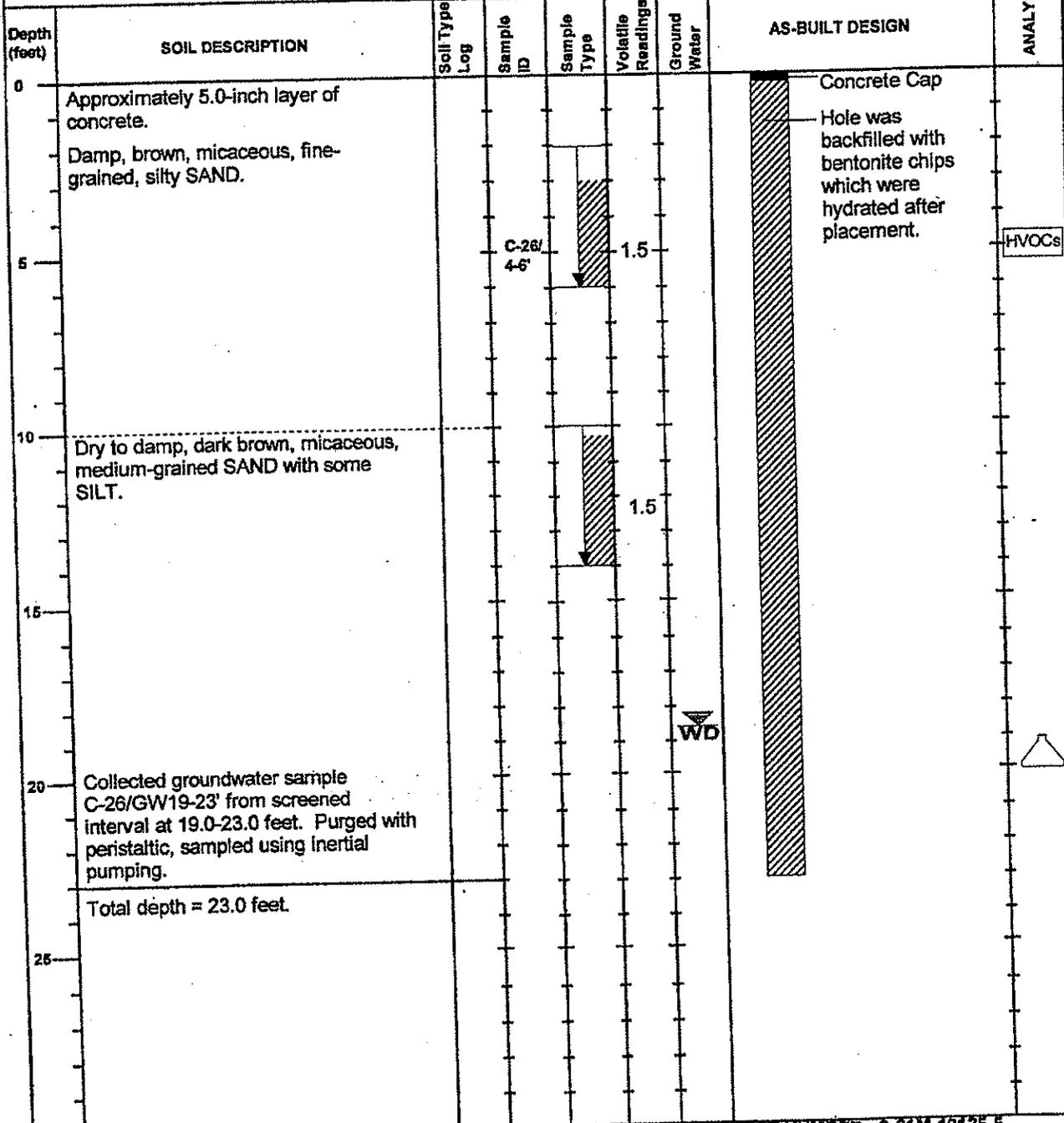
Drilling Started: 2/25/01

Drilling Completed: 2/25/01

Logged By: B. Lary

110135C25.DRW

Elevation Reference: NA Well Completed: NA Boring Method: Direct Push
 Relative Ground Surface Elevation: NA Relative Casing Elevation: NA Borehole Diameter (in.): 2.0



LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Groundwater level at time of drilling
- Groundwater Analysis (HVOCs by 8260)
- Soil Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5

Cadet Manufacturing
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Drilling Started: 2/25/01

Drilling Completed: 2/25/01

Logged By: B. Lary

110135/C26.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatle Readings	Ground Water	AS-BUILT DESIGN
0	Approximately 5.0-inch layer of concrete.						Concrete Cap
5	Dry, brown, micaceous, fine-grained, silty SAND.				1.6		Hole was backfilled with bentonite chips which were hydrated after placement.
10	Slightly coarser SAND.				1.8		
15							
20	Collected groundwater sample C-27/GW'19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
25	Total depth = 23.0 feet.						
30							

PROJECT NUMBER: 0-61M-10135-5

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Drilling Started: 2/25/01 Drilling Completed: 2/25/01 Logged By: B. Lary 110135/C27.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (In.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatile Readings	Ground Water	AS-BUILT DESIGN
0	Concrete.						Concrete Cap
0 - 5	Damp, brown, micaceous, fine-grained, silty SAND.				1.3		Hole was backfilled with bentonite chips which were hydrated after placement.
5 - 10							
10 - 15	Darker brown and coarser SAND.				0.8		
15 - 20							
20 - 23	Collected groundwater sample C-28/GW19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
23 - 25	Total depth = 23.0 feet.						
25 - 30							

LEGEND

 2.0-Inch O.D. Direct Push soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 Groundwater level at time of drilling

PROJECT NUMBER: 0-61M-10135-5

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Drilling Started: 2/25/01

Drilling Completed: 2/25/01

Logged By: B. Lary

110135/C28.DRW

Elevation Reference: NA		Well Completed: NA		Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 2.0			
Depth (feet)	SOIL DESCRIPTION	Soil Type Log	Sample ID	Sample Type	Volatiles Readings	Ground Water	AS-BUILT DESIGN
0	Approximately 3.0-inch layer of concrete.						Concrete Cap Hole was backfilled with bentonite chips which were hydrated after placement.
5	Damp, brown, micaceous, fine, sandy SILT.				0.0		
10	Dry, brown, micaceous, medium-grained, silty SAND.				0.1		
20	Collected groundwater sample C-29/GW19-23' from screened interval at 19.0-23.0 feet. Purged with peristaltic, sampled using inertial pumping.					WD	
25	Total depth = 23.0 feet.						
30							

LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

 Groundwater Analysis (HVOCs by 8260, TPH-HCID)

Cadet Manufacturing
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 Groundwater level at time of drilling

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Drilling Started: 2/25/01

Drilling Completed: 2/25/01

Logged By: B. Lary

110135/C29.DRW

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-30	
									TESTING AND LABORATORY DATA	
0		ML	Stiff, medium brown, micaceous SILT, with trace sand; dry to moist.							
5										
10										
15			SILT; wet.		46					
20										
25										
30		GP	Coarse, angular GRAVEL in coarse-grained sand matrix, cobbles (up to 1.5 feet).							
35										
40										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/11/2002 DRILLING COMPLETED: 7/11/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Drilling gets harder at 20.0 feet below ground surface.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-30 PAGE 1 OF 2		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

△ C13/GW40
62606 for HVOC

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-30	
									TESTING AND LABORATORY DATA	
0-20		GP	Coarse, angular GRAVEL in coarse-grained sand matrix, cobbles (up to 1.5 feet).							
20-60			Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.							
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/11/2002 DRILLING COMPLETED: 7/11/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: Drilling gets harder at 20.0 feet below ground surface.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-30 PAGE 2 OF 2	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

COU/GW60
82808 for HVOC

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-32
									TESTING AND LABORATORY DATA
0		ML	CONCRETE floor SILT; moist						
5									
10									
15			Fine-grained SAND; wet		86				
20									
25									
30									
35									
40									
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/13/2002 DRILLING COMPLETED: 7/13/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA		REMARKS:				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-32 PAGE 1 OF 2	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 25/03

△ C32/GW/40
6260B for HVOC

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-32	
									TESTING AND LABORATORY DATA	
40			Fine-grained SAND; wet							
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Direct Push			ELEVATION REFERENCE: NA			REMARKS:				
BOREHOLE DIAMETER: 1.8 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: K. Finucane										
DRILLING STARTED: 7/13/2002										
DRILLING COMPLETED: 7/13/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.						C-32	
2-61M-10135			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
PAGE 2 OF 2										

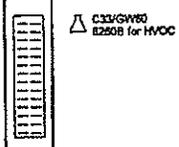


DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-33	
									TESTING AND LABORATORY DATA	
0		ML	CONCRETE floor. Medium stiff, brown SILT; wet.							
5										
10										
15					1.4					
20			Fine-grained SAND.							
25										
30										
35										
40										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/13/2002 DRILLING COMPLETED: 7/13/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No visible NAPL.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-33 PAGE 1 OF 2	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-33	
									TESTING AND LABORATORY DATA	
0			Fine-grained SAND.							
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Direct Push			ELEVATION REFERENCE: NA			REMARKS: No visible NAPL.				
BOREHOLE DIAMETER: 1.6 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: K. Finucane										
DRILLING STARTED: 7/13/2002										
DRILLING COMPLETED: 7/13/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.							
2-61M-10135			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							
						C-33				
						PAGE 2 OF 2				

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING GDT 2/5/03



DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-34	
									TESTING AND LABORATORY DATA	
0			CONCRETE floor							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-34 PAGE 1 OF 2		

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 25/03

 C34/GW40
 62603 for HVOC

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-34	
									TESTING AND LABORATORY DATA	
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Direct Push			ELEVATION REFERENCE: NA			REMARKS: No discrete soil samples were collected.				
BOREHOLE DIAMETER: 1.6 (in)			GROUND SURFACE ELEVATION: NA							
LOGGED BY: K. Finucane										
DRILLING STARTED: 7/12/2002										
DRILLING COMPLETED: 7/12/2002										
Cadet Manufacturing			AMEC Earth & Environmental, Inc.						C-34	
2-61M-10135			7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892							

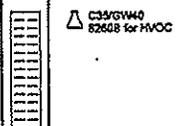
ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with concrete.

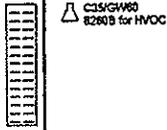
ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-35	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Flaucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-35		



ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 25/03

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-35
									TESTING AND LABORATORY DATA
5									
15									
25									
35									
45									
55									
60									
65									
70									
75									
80									
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-35 PAGE 2 OF 2	



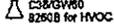
Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout.

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-36
									TESTING AND LABORATORY DATA
0			CONCRETE floor						
5									
10									
15									
20									
25									
30									
35									
40									
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.			
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-36

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

△ C36/GW40
#2606 for HVOC

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 25403

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-36	
									TESTING AND LABORATORY DATA	
40										
45										
50										
55										
60										
65										
70										
75										
80										
			Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with concrete.							 CS&GW80 8250B for HVOC
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.5 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-36 PAGE 2 OF 2		

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-37	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15			SILT.	15						
20										
25										
30										
35							▽			
40										
BORING METHOD: Direct Push ELEVATION REFERENCE: NA BOREHOLE DIAMETER: 1.6 (in) GROUND SURFACE ELEVATION: NA LOGGED BY: K. Finucane DRILLING STARTED: 7/13/2002 DRILLING COMPLETED: 7/13/2002									REMARKS:	
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-37 PAGE 1 OF 2	

ENV DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

△ C37/GW40
62805 for HVOC

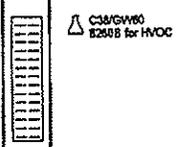
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-38	
									TESTING AND LABORATORY DATA	
0			CONCRETE floor.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-38 PAGE 1 OF 2	

ENV. DIRECT PUSH BORING 10135.GPJ ENVIRONMENTAL BORING.GDT 2/5/03

△ C18/KH40
E2008 for HVOC

ENV. DIRECT PUSH BORING 10135 CPJ ENVIRONMENTAL BORING GDT 2/5/03

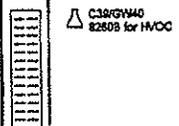
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-38	
									TESTING AND LABORATORY DATA	
0										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-38 PAGE 2 OF 2	



Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with concrete.

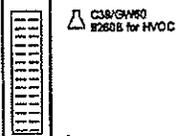
DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-39	
									TESTING AND LABORATORY DATA	
0			CONCRETE floor.							
5										
10										
15										
20										
25										
30										
35										
40										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.8 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					C-39 PAGE 1 OF 2		

ENV DIRECT PUSH BORING 10135 GFL ENVIRONMENTAL BORING SGT 2503



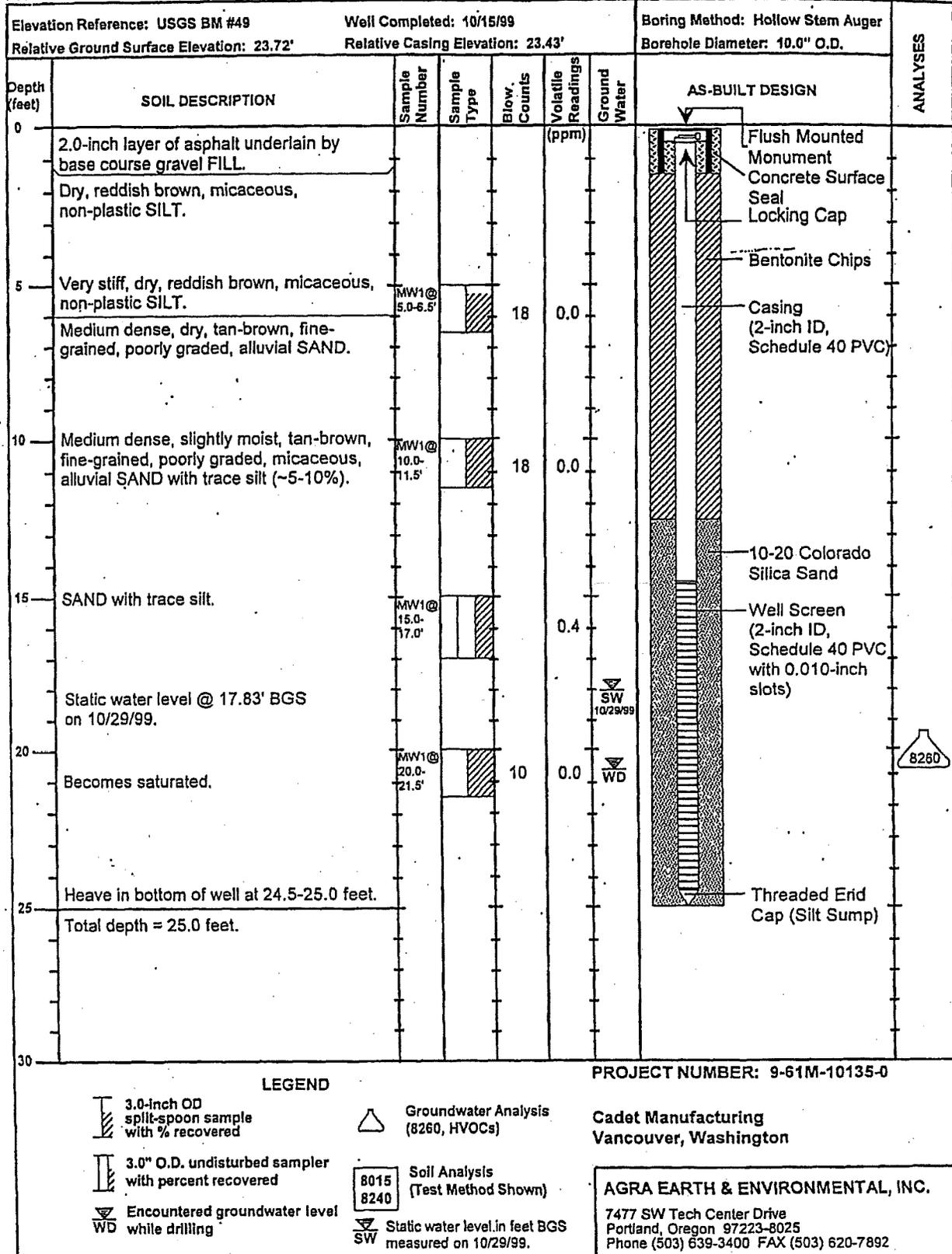
ENV. DIRECT PUSH BORING 10135 GPJ ENVIRONMENTAL BORING GDT 20503

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	VOLATILE READING (ppm)	FIELD TESTING	GROUNDWATER	GW SCREENED INTERVAL	LOG OF BORING C-39	
									TESTING AND LABORATORY DATA	
0										
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70										
75										
80										
BORING METHOD: Direct Push BOREHOLE DIAMETER: 1.6 (in) LOGGED BY: K. Finucane DRILLING STARTED: 7/12/2002 DRILLING COMPLETED: 7/12/2002			ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA			REMARKS: No discrete soil samples were collected.				
Cadet Manufacturing 2-61M-10135			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						C-39 PAGE 2 OF 2	

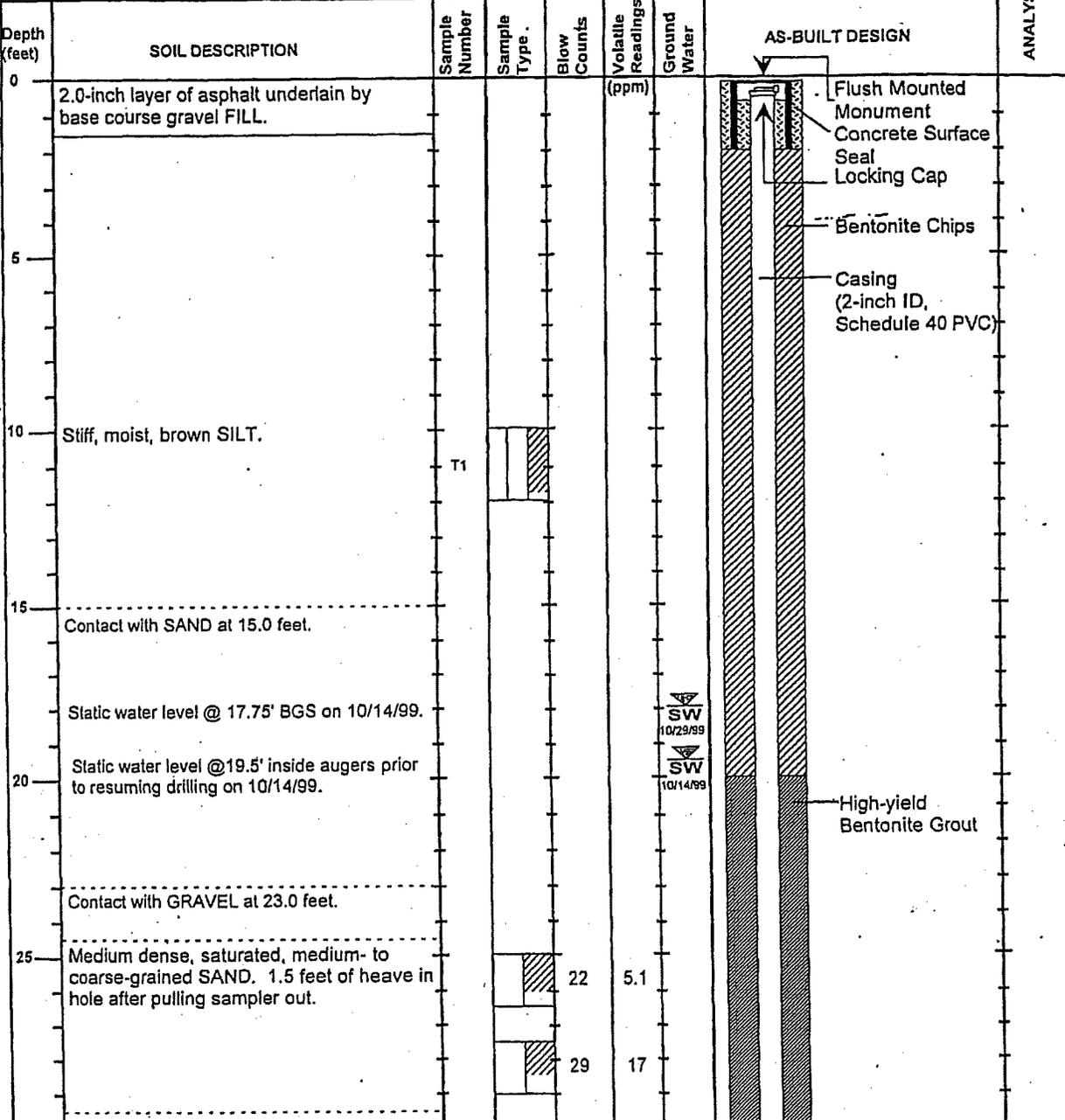


Total depth = 60.0 feet below ground surface. Boring was backfilled with bentonite grout and capped with concrete.

MONITORING WELLS



Elevation Reference: USGS BM #44 Well Completed: 10/14/99 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: 23.73 Relative Casing Elevation: 23.39' Borehole Diameter: 10.0" O.D.



LEGEND

- 3.0-inch OD split-spoon sample with % recovered
- 3.0" O.D. undisturbed sampler with percent recovered
- NR No sample recovery
- Encountered groundwater level while drilling
- Groundwater Analysis (8260, HVOCs)
- Soil Analysis (Test Method Shown)
- 8015 8240
- Static groundwater level in feet BGS measured on 10/29/99

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/13/99

Drilling Completed: 10/14/99

Logged By: J. Fassio/S. Bourcy

a:110135MW1A.DRW

Elevation Reference: USGS BM #49 Relative Ground Surface Elevation: 23.73'		Well Completed: 10/14/99 Relative Casing Elevation: 23.79'		Boring Method: Hollow Stem Auger Borehole Diameter: 10.0" O.D.		ANALYSES	
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)		Ground Water
30	Dense, saturated, medium- to coarse-grained, gravelly SAND with basalt and quartzite pebbles. Gravel is subrounded to rounded. Noted 1.0 foot of heave in hole before sampling. Gravel content increases to 30-40%. Noted 1.0 foot of heave in hole.				9.4	AS-BUILT DESIGN High-yield Bentonite Grout Casing (2-inch ID, Schedule 40 PVC)	
35		Gravel content decreases to 10%.			25		
40		1.0-1.5 feet of heave in hole. Collected discrete groundwater sample MW-1AGW@3-40' using an inflatable packer pump assembly..		NR	43		1.6
40	Saturated, medium- to fine-grained SAND layer at 40.0-40.5 feet. Medium- to coarse-grained SAND at 40.5-41.0 feet. Noted 1.0 foot of heave in hole..			50+	50+	0.1	8260
45	Sand/gravel content decreases.						
50	GRAVEL at 47.5 feet.						
55	Collected discrete groundwater sample MW-1AGW@ 60' using an inflatable packer/pump assembly.						8260
60							

PROJECT NUMBER: 9-61M-10135-0

<p>LEGEND</p> <p> 3.0-inch OD split-spoon sample with % recovered</p> <p> 3.0" O.D. undisturbed sampler with percent recovered</p> <p>NR No sample recovery</p> <p> Encountered groundwater level while drilling</p>	<p> Groundwater Analysis (8260, HVOCs)</p> <p> Soil Analysis (8240) (Test Method Shown)</p> <p> Static groundwater level in feet BGS measure on 10/29/99..</p>	<p>Cadet Manufacturing Vancouver, Washington</p> <p>AGRA EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223-8025 Phone (503) 639-3400 FAX (503) 620-7892</p>
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Drilling Started: 10/13/99

Drilling Completed: 10/14/99

Logged By: J. Fassio/S. Bourcy

#10135MW1APG2.DRW

Elevation Reference: USGS BM #49		Well Completed: 10/14/99				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation: 23.73		Relative Casing Elevation: 23.39'				Borehole Diameter: 10.0" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
60	Medium dense to dense, saturated, brown, moderately graded, fine-grained, gravelly SAND. Gravels up to 3/8-1/2 inch in diameter. Approximately 15% fines (silt).						High-yield Bentonite Grout	
65								
70	Gravel and silt content increases.						Casing (2-inch ID, Schedule 40 PVC)	
	Clean SAND lense at 71.5-73.0 feet. (No gravel).							
	Sandy GRAVEL; increasing gravel content and size.						Bentonite Chips	
75								
80	Collected discrete groundwater sample MW-1AGW @ 80' using an inflatable packer/pump assembly.						10-20 Colorado Silica Sand	8260
85	Harder/slower drilling below 84.0 feet (very dense, sandy GRAVEL).						Well Screen (4.0-inch OD with 2.0-inch ID, Schedule 40 PVC with 0.010-inch slots pre-pak with 10-20 Colorado Silica Sand)	
90								

PROJECT NUMBER: 9-61M-10135-0

- LEGEND**
-  3.0-inch OD split-spoon sample with % recovered
 -  3.0" O.D. undisturbed sampler with percent recovered
 - NR No sample recovery
 -  Encountered groundwater level while drilling
 -  Groundwater Analysis (8260, HVOCs)
 -  Soil Analysis (Test Method Shown)
 -  Static groundwater level in feet BGS measured on 10/29/99..

Cadet Manufacturing
Vancouver, Washington

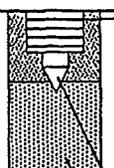
AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/13/99

Drilling Completed: 10/14/99

Logged By: J. Fassio/S. Bourcy

8310135WV1APG3.DRW

Elevation Reference: USGS BM #49		Well Completed: 10/14/99				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation: 23.73'		Relative Casing Elevation: 23.39'				Borehole Diameter: 10.0" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90	Very slow drilling (35 minutes to drill 4.0 feet). Drilling refusal encountered @ 94.0' i.e.: worn bit.						 <p>Well Screen (4.0-inch OD with 2.0-inch ID, Schedule 40 PVC with 0.010-inch slots pre-pak with 10-20 Colorado Silica Sand) Threaded End Cap (Silt Sump) Sand Heave</p>	
95	Total depth = 94.0 feet.							
100								
105								
110								
115								
120								

PROJECT NUMBER: 9-61M-10135-0

<p>LEGEND</p> <p> 3.0-inch OD split-spoon sample with % recovered</p> <p> 3.0" O.D. undisturbed sampler with percent recovered</p> <p>NR No sample recovery</p> <p> Encountered groundwater level while drilling</p>	<p> Groundwater Analysis (8260, HVOCs)</p> <p> Soil Analysis (Test Method Shown) 8015 8240</p> <p> Static groundwater level in feet BGS measured on 10/29/99.</p>	<p>Cadet Manufacturing Vancouver, Washington</p> <p>AGRA EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223-8025 Phone (503) 639-3400 FAX (503) 620-7892</p>
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Drilling Started: 10/13/99 Drilling Completed: 10/14/99 Logged By: J. Fassio/S. Bourcy

Elevation Reference: Well Completed: 5/1/01 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 10.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	Asphalt.						Multi-purge Manifold		
	Damp, brown, silty, micaceous SAND.						Concrete Vault (2.5' X 2.5') with Metal Hinged Lid		
5							Bentonite Chips		
	Small GRAVEL.						Casing (2-inch ID, Schedule 80 PVC)		
10							Void at 8-16 feet filled with Bentonite Chips, Bentonite Grout, and Pea Gravel (1")		
15									
20	Moist, sandy, fine GRAVEL.								
25									
30							20/40 Colorado Silica Sand		

PROJECT NUMBER: 0-61M-10135-5 T3

LEGEND

-  Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

10135MW1d.DRW

Elevation Reference:		Well Completed: 5/1/01				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Problems with moist to wet SAND and GRAVEL clogging casing. Added water.						20/40 Colorado Silica Sand	
35	Coarser (medium to large) GRAVEL. Groundwater coming up.					WD	Casing (2-inch ID, Schedule 80 PVC)	
40	Wet, black, coarse, sandy GRAVEL with little silt.						8/12 Colorado Silica Sand	△
							Port #5 (39.75-40.25)	
45	Coarser GRAVEL, very little silt and fine-grained sand.						20/40 Colorado Silica Sand	
50								
55	Larger GRAVEL (very hard drilling).							
60	Producing large volumes of water.							

LEGEND

WD Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

110135MW1dPG2.DRW

Elevation Reference:		Well Completed: 5/1/01					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
60	Wet, black, coarse, sandy GRAVEL (predominantly basalt with some quartz and igneous rocks).						20/40 Colorado Silica Sand		
65							Casing (2-inch ID; Schedule 80 PVC)		
70									
75									
80	Rounded to subrounded, large GRAVEL and COBBLES.								
85	Slightly smaller GRAVEL and COBBLES (fewer cobbles).								
90									

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

V10135MW1dFIG3.DRW

Elevation Reference:		Well Completed: 5/1/01					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
90	Interbedded medium to large GRAVEL with few cobbles.						20/40 Colorado Silica Sand		
95							Casing (2-inch ID, Schedule 80 PVC)		
100									
105									
110	Fine GRAVEL and coarse-grained SAND with some larger (approximately 1.0-inch) gravel. Easier drilling.								
115									
120							8/12 Colorado Silica Sand		

LEGEND

▼ Encountered groundwater level while drilling



Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

110135MW1dPG4.DRW

Elevation Reference:		Well Completed: 5/1/01					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
120	Black, gravelly, coarse-grained SAND with fine, rounded to subrounded gravel (up to 1.0-inch), predominantly basalt.						<p>8/12 Colorado Silica Sand Port #4 (120.25-120.75) 20/40 Colorado Silica Sand Casing (2-inch ID, Schedule 80 PVC)</p>	△	
125									
130									
135	Larger GRAVEL (3.0-inch plus) at 135.0-138.0 feet.								
140									
145									
150									

LEGEND

▽ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

110135MW1dPG5.DRW

Elevation Reference:		Well Completed: 5/1/01					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN		
150	Sandier, occasional gravel (1.0-inch plus) interbedded with sandy gravel.								
155									
160	Wet, brown to black, micaceous, sandy GRAVEL with some rounded to subrounded gravel (1.0-inch).								
165									
170									
175									
180	Increase in GRAVEL sizes (1.0-inch to 3.0-inch). Interbedded fine GRAVEL layers, predominantly basalt although approximately 10-20% other (granite, quartzite, and other igneous).								

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

110135MW1dPG6.DRW

Elevation Reference:		Well Completed: 5/1/01				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
180							20/40 Colorado Silica Sand	
							Casing (2-inch ID, Schedule 80 PVC)	
185	Hit large COBBLE with casing.							
							8/12 Colorado Silica Sand	
190								
							Port #2 (193.25-193.75)	△
195	Interbedded small GRAVEL and large GRAVEL with abundant sand at 195.0-205.0 feet.						20/40 Colorado Silica Sand	
200	Small to large, subrounded to rounded GRAVEL, predominantly basalt with 10-20% other igneous. Producing large amounts of groundwater in coarse gravel.							
205								
210								

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/23/01

Drilling Completed: 5/1/01

Logged By: B. Lary

110135MW1dPG7.DRW

Elevation Reference:		Well Completed: 5/1/01					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
210									
215									
220									
225	Very large GRAVEL and COBBLES at approximately 222.0-223.0 feet. Water production jumped to approximately 1,000 GPM.								
230	Total depth = 228.0 feet. Installed multi-port well.								
235									
240									

LEGEND:

Encountered groundwater level while drilling

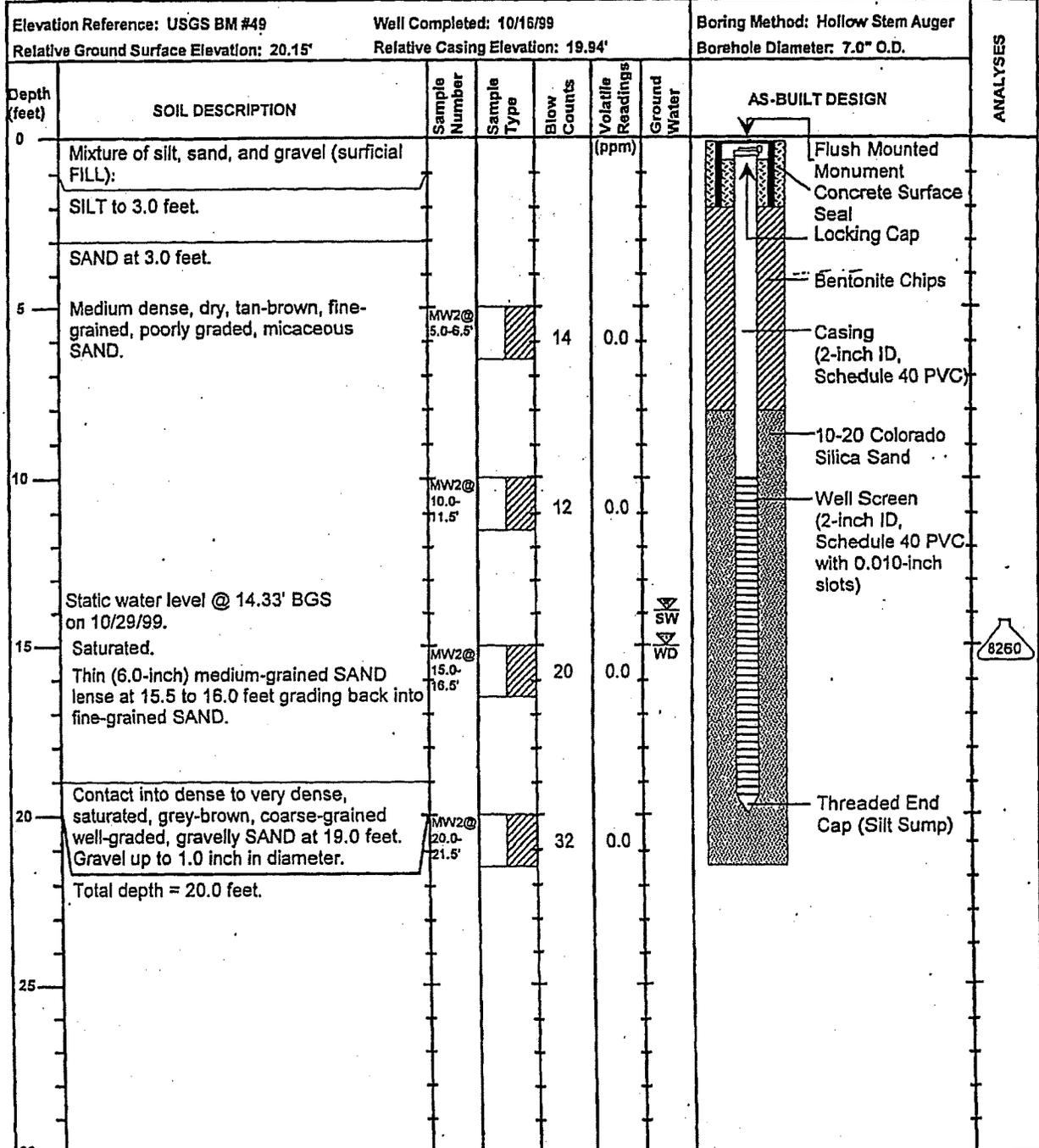
Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-5 T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892



LEGEND

- [Hatched Box] 2.0-inch OD split-spoon sample with % recovered
- [Triangle] Groundwater Analysis (8260, HVOCs)
- [SW Symbol] Encountered groundwater level while drilling
- [WD Symbol] Static water level in feet BGS, measured on 10/29/99.
- [8015/8240 Box] Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/16/99

Drilling Completed: 10/16/99

Logged By: S. Bourcy

10135MW2.DRW

Elevation Reference:		Well Completed: 11/15/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
+5									
0	Vegetation. Moist, brown, fine, sandy SILT.								
5	Grading to fine-grained, silty SAND.								
10									
15									
20	Sandy GRAVEL. Moist to wet.								
25	Wet, brown, sandy, subrounded to subangular GRAVEL.								

PROJECT NUMBER: 0-61M-10135-3

LEGEND

Encountered groundwater level while drilling	Groundwater Analysis (HVOCs by 8260)	Cadet Manufacturing Vancouver, Washington
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AGRA EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/15/00

Logged By: B. Lary/J. Fassio

V10135MW2d.DRW

Elevation Reference: Well Completed: 11/15/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
25							Bentonite Grout		
30	Coarser GRAVEL.						Casing (2-inch ID, Schedule 80 PVC)		
35	Interbedded, saturated, brown, gravelly SAND with wet, brown and black, sandy gravel (varying sizes fine to coarse)								
40	Interbedded gravelly SANDS and sandy GRAVELS. (Some intervals are very wet to saturated.)								
45									
50	Producing quite a bit of water.								
55	Less sand.								

PROJECT NUMBER: 0-61M-10135-3

LEGEND

Encountered groundwater level while drilling
 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
 Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 820-7892

Drilling Started: 11/9/00 Drilling Completed: 11/15/00 Logged By: B. Lary/J. Fassio

Elevation Reference:		Well Completed: 11/15/00				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
55							Bentonite Grout	
60	High water production.						Casing (2-inch ID, Schedule 80 PVC)	
65	Wet, black, fine to coarse GRAVEL with occasional sand lenses.							
70								
75	Wet, black, medium to coarse, rounded GRAVEL with little to no sand.							
80	Collected groundwater sample 11/10/00-MW2d/GW80.							
85								

LEGEND

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/15/00

Logged By: B. Lary/J. Fassio

110135MW2dPG3.DRW

Elevation Reference:		Well Completed: 11/15/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
85	Interbedded, coarse and small GRAVEL with occasional sand.						Bentonite Grout		
90	Increased sand. High water production.						Casing (2-Inch ID, Schedule 80 PVC)		
95									
100	Interbedded SAND lenses with sandy gravel.								
105									
110									
115									

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/15/00

Logged By: B. Lary/J. Fassio

110135MW2dPG4.DRW

Elevation Reference:		Well Completed: 11/15/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
115	Uniform, small GRAVEL with some larger gravel grading to larger (medium) GRAVEL.						 <p>Bentonite Grout</p> <p>Casing (2-inch ID, Schedule 80 PVC)</p>		
120	Collected groundwater sample MW2d/GW120 on 11/10/00. Uniform, small GRAVEL with some larger gravel and little coarse-grained sand.								
125									
130									
135									
140	Occasional coarser gravel.								
145	Small, interbedded SANDS or sandier GRAVELS.								

LEGEND

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/15/00

Logged By: B. Lary/J. Fassio

110135MW2dPG5.DRW

Elevation Reference: Well Completed: 11/15/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
145							Bentonite Grout	
150							Casing (2-inch ID, Schedule 80 PVC)	
155	Heaving fine-grained SAND.							
160	Heaving fine-grained SAND.							
165	GRAVEL with some sand.							
170	Collected groundwater sample MW2d/GW170 on 11/10/00.							△
175								

PROJECT NUMBER: 0-61M-10135-3

LEGEND

 Encountered groundwater level while drilling
 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
 Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00 Drilling Completed: 11/15/00 Logged By: B. Lary/J. Fassio

Elevation Reference:		Well Completed: 11/15/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
175	interbedded, fine- to medium-grained, gravelly SANDS and GRAVELS.						Bentonite Grout		
180	Sand content increases at 180.0-187.0 feet.						Casing (2-inch ID, Schedule 80 PVC)		
185									
190	Sand content decreases at 187.0-198.0 feet. Water appears to be less turbid at this interval.								
195	Drilled through COBBLES at 195.0-198.0 feet (high percentage of angular drill chips).								
200	Fine- to medium-grained SAND with trace silt. Groundwater is very turbid.								
205	Becomes gravelly (10% gravel content).								

LEGEND

▼ Encountered groundwater level while drilling



Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/15/00

Logged By: B. Lary/J. Fassio ^{10135MW2dPG7.DRW}

Elevation Reference: Well Completed: 11/15/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
205							Bentonite Grout	
210	SAND heaved into casing when driller tripped 20.0-foot rod out of hole. Sandy GRAVEL interlayered with thin, sand lenses. Harder drilling.						Casing (2-inch ID, Schedule 80 PVC)	
215							20-40 Colorado Silica Sand	
220	Sand content decreases at 220.0-230.0 feet. Greater water production at 220.0- 230.0 feet.						10-20 Colorado Silica Sand	
225							Pre-pack Screen (2-inch ID, Schedule 80 PVC with 0.010-inch slots and 20-40 Colorado Silica Sand)	
230	Total depth = 230.0 feet.						End Cap	
235								

LEGEND
 Encountered groundwater level while drilling
 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3
 Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 839-3400 FAX (503) 620-7892

Elevation Reference: USGS BM #49		Well Completed: 10/16/99				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation: 23.27'		Relative Casing Elevation: 22.96				Borehole Diameter: 7.0" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	1.5-inch layer of asphalt underlain by base course gravel FILL (subbase).							
	Dry, reddish brown, micaceous SILT (in cuttings).							
5	Borehole VOC screening (open auger). Medium dense, dry, tan-brown, fine-grained, poorly graded, micaceous SAND with trace silt (in cuttings).				0.0			
10	Borehole VOC screening (open auger).				0.0			
15	Borehole VOC screening (open auger).				0.0			
	Static water level @ 17.38' BGS on 10/29/99.					SW		
20	Borehole VOC screening (open auger).				0.0	WD		8260
25	Total depth = 25.0 feet.							
30								

LEGEND

WD Encountered groundwater level while drilling

Groundwater Analysis (8260, HVOCs)

SW Static Water Level in feet BGS measured on 10/29/99.

Soil Analysis (Test Method Shown)
8015
8240

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/16/99

Drilling Completed: 10/16/99

Logged By: S. Bourcy

110135MW3.DRW

Elevation Reference:		Well Completed: 9/4/02		Boring Method: Air Rotary		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 8.0" 0.0-170.0' 6.0" 170.0-227.8'			
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	ASPHALT, approximately 2.0-inch to 3.0-inch layer.						Multi-purge Manifold
	SILTY SAND (SM), loose, damp, medium to light brown, very fine- to fine-grained, trace to some silt.						Concrete Vault (2.5' X 2.5') with Metal Hinged Lid
5							Bentonite Chips
							Casing (2-inch ID, Schedule 80 PVC)
10							
15	SILTY SAND (SM), loose, damp to moist, medium brown, very fine- to fine-grained.						
	SAND (SP), wet, fine- to medium-grained, (coarsening - losing silt), some fine, subangular gravel.					WD	
20	GRAVELLY SAND (SW), loose, wet, medium- to very coarse-grained, with gravel, 1.0-inch to 2.0-inch, subangular to subrounded, basalt (75%), chert, quartzite, and other (25%), trace clay.						
25	GRAVELLY SAND (SW), wet, medium- to very coarse-grained, some gravel, 0.5-inch to 1.0-inch, subangular to subrounded, trace silt.						
30	GRAVELLY SAND to SANDY GRAVEL (SW), wet to saturated, coarse- to very coarse-grained sand, fine to coarse gravel, < 0.5-inch to 1.0-inch, subangular to rounded, basalt (90%), quartzite and other (10%).						

PROJECT NUMBER: 2-61M-10135-0

LEGEND

WD Encountered groundwater level while drilling

△ Groundwater Analysis (Test Method Shown)

SW Static water level

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

V10135MW3d.DRW

Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

Elevation Reference: Well Completed: 9/4/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-170.0"
 6.0" 170.0-227.8"

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
30	GRAVELLY SAND to SANDY GRAVEL (SW/GW), wet to saturated, coarse- to very coarse-grained sand, gravel, fine to coarse, < 0.5-inch to 1.0-inch, subangular to rounded, basalt (90%), quartzite and other (10%).						Bentonite Chips	
35	GRAVELLY SAND (SW), wet, dark gray, medium- to very coarse-grained, well-graded, with some fine gravel, subangular to subrounded, occasional coarse gravel, subrounded.						Casing (2-inch ID, Schedule 80 PVC)	
40								
45								
50	GRAVELLY SAND (SW), wet, dark gray to black, medium- to very coarse-grained, well-graded, subangular to subrounded; basalt (90%), chert, quartzite, and other (10%), some gravel, fine to coarse, up to 2.0-inch (average <= 0.5-inch), subrounded.						20/40 Colorado Silica Sand	
55	Zone of higher water production at 56.0-60.0 feet below ground surface.						10/20 Colorado Silica Sand	
							8/12 Colorado Silica Sand	
60							Port #5 (59.2-59.7 Feet)	8260

LEGEND

Encountered groundwater level while drilling (WD)
 Static water level (SW)
 Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0
Cadet Manufacturing
Vancouver, Washington
AMEC EARTH & ENVIRONMENTAL, INC.
 7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

10135MW3dPG2.DRW

Elevation Reference:		Well Completed: 9/4/02		Boring Method: Air Rotary		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 8.0" 0.0-170.0' 6.0" 170.0-227.8'			
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
60	Intermittent GRAVEL (GW) interbeds, < 1.0-foot thick, coarse, some angular chips, (lose fine-grained sand).						8/12 Colorado Silica Sand
65	GRAVELLY SAND to SANDY GRAVEL (SW/GW), medium- to coarse-grained sand, subangular to subrounded, well-graded, with coarse gravel, 2.0-inch to 3.0-inch, rounded.						10/20 Colorado Silica Sand
70	Zone of higher water production at 70.0-74.0 feet below ground surface.						Casing (2-inch ID, Schedule 80 PVC)
75	SANDY GRAVEL (GW), fine to coarse gravel, 1.0-inch to 2.0-inch, subangular to rounded, with some coarse- to very coarse-grained, angular sand. Grades to GRAVELLY SAND (SW).						
80	Overall higher water production at 80.0 feet below ground surface.						
85	SANDY GRAVEL to GRAVELLY SAND (GW/SW), coarse gravel, predominantly 1.0-inch to 2.0-inch, with up to 4.0-inch to 5.0-inch gravel, and angular to subangular, coarse- to very coarse-grained sand, well-graded. Relatively high water production.						
90							

LEGEND

▼ Encountered groundwater level while drilling
WD

△ Groundwater Analysis (Test Method Shown)

▼ Static water level
SW

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

110135MW3dPG3.DRW

Elevation Reference:		Well Completed: 9/4/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-170.0' 6.0" 170.0-227.8'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90	Hard advancement, very slow, very high water production.						10/20 Colorado Silica Sand	
95							Casing (2-inch ID, Schedule 80 PVC)	
	SANDY GRAVEL (GW), abundant angular chips.						8/12 Colorado Silica Sand	
	Maintain hard advancement, high water production.						Port #4 (99.7-100.2 Feet)	8260
100	SANDY GRAVEL (GW), fine to coarse gravel, 2.0-inch to 4.0-inch, rounded, with abundant coarse- to very coarse-grained sand, subangular to subrounded.						10/20 Colorado Silica Sand	
105	Slow advancement, high water production.							
	GRAVELLY SAND (SW), medium- to coarse-grained, well-graded, angular to rounded, with fine gravel, 0.5-inch to 1.0-inch, rounded (no coarse gravel).							
110	SAND (SW), medium- to very coarse-grained, moderately to well-graded, with some fine gravel, subrounded, basalt (90%), other (10%).							
	Continued high water production.							
115								
120								

LEGEND

WD Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

SW Static water level

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

V10135MW3dPG4.DRW

Elevation Reference:		Well Completed: 9/4/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-170.0' 6.0" 170.0-227.8'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
120	SAND (SW), medium- to very coarse-grained, moderately to well-graded, subangular, with some fine, subrounded gravel, basalt (90%), quartzite and volcanics (10%). Maintain high water production.						10/20 Colorado Silica Sand	
125							Casing (2-inch ID, Schedule 80 PVC)	
130								
135								
140							8/12 Colorado Silica Sand	
							Port #3 (140.2-140.7 Feet) 	
145							10/20 Colorado Silica Sand	
150	SAND (SW), medium- to very coarse-grained.							

LEGEND

-  Encountered groundwater level while drilling
-  Static water level

 Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

110135MW3dPG5.DRW

Elevation Reference:	Well Completed: 9/4/02	Boring Method: Air Rotary
Relative Ground Surface Elevation:	Relative Casing Elevation:	Borehole Diameter: 8.0" 0.0-170.0' 6.0" 170.0-227.8'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
150	SAND (SW), medium- to very coarse-grained.						10/20 Colorado Silica Sand	
155	SILTY SAND to SAND (SP), dark chocolate brown, very fine- to fine-grained, trace to some silt, occasional fine gravel, abundant pyrite, mica.						Casing (2-inch ID, Schedule 80 PVC)	
160	Interbedded with SANDY GRAVEL (GW), very fine- to fine-grained sand, some silt (matrix), zones of fine to coarse angular gravel, occasional rounded gravel average 0.5-inch to 1.0-inch, abundant very coarse-grained sand. (Gravel percentage increases at 157.0 feet below ground surface.)							
165								
170	SAND (SW), very coarse-grained, fine to coarse, angular to rounded gravel, (no fine-grained component) at 165.0 feet below ground surface. Water production increases significantly (> 70 gpm). Minor iron-oxide coatings, very fine- to fine-grained, sandy cementation at 167.0 feet below ground surface. Dramatic increase in water production. Switched to 6.0-inch casing at 170.0 feet below ground surface.							
175	SANDY GRAVEL (GW), fine, subrounded gravel with coarse- to very coarse-grained sand, trace silt and very fine-grained sand.							
180	Dark brown drill water.						8/12 Colorado Silica Sand	

PROJECT NUMBER: 2-61M-10135-0

<p>LEGEND</p> <p>▼ Encountered groundwater level WD while drilling</p> <p>▼ Static water level SW</p> <p>* No soil sampling. Descriptions are based on soil cuttings and drilling character.</p>	<p>△ Groundwater Analysis (Test Method Shown)</p>	<p>Cadet Manufacturing Vancouver, Washington</p>
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AMEC EARTH & ENVIRONMENTAL, INC.
 7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

110135\WW3dPG6.DRW

Elevation Reference:	Well Completed: 9/4/02	Boring Method: Air Rotary
Relative Ground Surface Elevation:	Relative Casing Elevation:	Borehole Diameter: 8.0" 0.0-170.0' 6.0" 170.0-227.8'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
185	SANDY GRAVEL (GW), medium- to very coarse-grained, angular to subrounded gravel. Lithology variability decreases, basalt (85-90%). Water production decreases. Increasing fine- to medium-grained sand, iron-oxide coatings, (no larger cobbles and occasional cementation) at 185.0-187.0 feet below ground surface.						Port #2 (180.7-181.2 Feet) 8/12 Colorado Silica Sand Casing (2-inch ID, Schedule 80 PVC) 10/20 Colorado Silica Sand	8280
195	GRAVELLY SAND (SW), very fine- to fine- to very coarse-grained, subangular to subrounded, some fine gravel, 0.25-inch to 0.5-inch, subrounded to rounded, trace to minor silt. High water production but lower than at 169.0 feet below ground surface. Dark brown drill water.							
200	GRAVELLY SAND (SW), medium- to very coarse-grained, moderately sorted, subangular to rounded, some fine, subrounded gravel with iron-oxide coatings, no cementation. Moderate water production.							
205								
210								

PROJECT NUMBER: 2-61M-10135-0

LEGEND

Encountered groundwater level while drilling	Groundwater Analysis (Test Method Shown)
Static water level	

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

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Portland, Oregon 97224
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Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

110135MW3dPG7.DRW

Elevation Reference:		Well Completed: 9/4/02		Boring Method: Air Rotary		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 8.0" 0.0-170.0'			
				6.0" 170.0-227.8'			
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
210							10/20 Colorado Silica Sand
215	Harder casing advancement, water production increases, water coming out of casing. GRAVELLY SAND (SW), coarse- to very coarse-grained, poorly sorted, coarse, rounded gravel, trace cementation. Increasing very fine- to fine-grained sand. Very hard drilling, slight increase in water production at 217.0 feet below ground surface.						Casing (2-inch ID, Schedule 80 PVC)
220							
225	Slight increase in gravel size (up to 3.0-inch), rounded, slight increase in cementation. Maintain high to very high water production (> 100 gpm).						8/12 Colorado Silica Sand
	Total depth = 227.8 feet below ground surface.						Port #1 (226.2-226.7 Feet)
230							End Cap
235							
240							



LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (Test Method Shown)

▼ Static water level

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

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Vancouver, Washington

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Drilling Started: 8/30/02

Drilling Completed: 9/4/02

Logged By: C. Bartlett

V10135MW3dPG8.DRW

Elevation Reference: USGS BM #49		Well Completed: 10/15/99		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation: 30.19'		Relative Casing Elevation: 19.84'		Borehole Diameter: 10.0" O.D.			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	1.5-inch layer of asphalt underlain by base course gravel FILL. Dry, reddish brown SILT (in cuttings).						Flush Mounted Monument Concrete Surface Seal Locking Cap Bentonite Chips
5	Stiff, dry, brown, micaceous, non-plastic SILT to 5.5 feet. Medium dense, dry, tan-brown, fine-grained, poorly sorted, micaceous SAND with trace silt (<5-10%).	MW4@ 5.0-6.5'		16	0.0		Casing (2-inch ID, Schedule 40 PVC)
10	Medium dense, dry, tan-brown, fine-grained, poorly sorted, micaceous SAND with trace silt (5%).	MW4@ 10.0-11.5'		24	3.0		
15	Grading into slightly moist, fine- to medium-grained, clean SAND at 15.5 feet (little to no fines).	MW4@ 15.0-18.5'		29	0.2		10-20 Colorado Silica Sand Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots)
20	Contact into sandy GRAVEL to gravelly SAND at 18.0 feet. Very dense, moist, brown, medium- to coarse-grained, well-graded, gravelly SAND to sandy GRAVEL. Gravel up to 2.0 inches in diameter.	MW4@ 20.0-21.5'		50+			
25	Static water level @ 24.38' BGS on 10/29/99.					SW	
30	Total depth = 30.0 feet.					WD	Threaded End Cap (Silt Sump)

PROJECT NUMBER: 9-61M-10135-0

LEGEND

- 3.0-inch OD split-spoon sample with 1/4 recovered
- Groundwater Analysis (8260, HVOCs)
- Encountered groundwater level while drilling
- Soil Analysis (Test Method Shown)
- Static water level in feet BGS measured on 10/29/99.

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/15/99

Drilling Completed: 10/15/99

Logged By: S. Bourcy

a:10135MW4.DRW

Elevation Reference:	Well Completed: 6/14/00	Boring Method: Hollow Stem Auger
Relative Ground Surface Elevation:	Relative Casing Elevation:	Borehole Diameter: 10.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	Asphalt. No sampling at 0.0-30.0 feet.								
5									
10									
15									
20									
25	Gravelly.								
30									

PROJECT NUMBER: 0-61M-10135-2

<p>LEGEND</p> <p> 3-Inch OD split-spoon sample with % recovered</p> <p>NR No sample recovery</p> <p> Encountered groundwater level</p> <p>WD while drilling</p> <p> Static groundwater level</p> <p>SW on 6/19/00</p>	<p> Groundwater Analysis (HVOcs by 8260)</p>	<p>Cadet Manufacturing Vancouver, Washington</p> <hr/> <p>AGRA EARTH & ENVIRONMENTAL, INC. 7477 SW Tech Center Drive Portland, Oregon 97223-8025 Phone (503) 639-3400 FAX (503) 620-7892</p>
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Drilling Started: 6/13/00

Drilling Completed: 6/14/00

Logged By: B. Lary

110135MW4LDRW

Elevation-Reference:		Well Completed: 6/14/00		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 10.25"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN
30	Wet, black and dark brown, sandy GRAVEL.				68		Bentonite Chips
35							Casing (2-inch ID, Schedule 40 PVC)
40	Collected groundwater sample MW4i/GW40' with packer system.				125		Quik Bentonite Grout
45	Floating sampler down with auger. Fills with SAND and GRAVEL.				9.0		
50					35		
55			NR				
60							

LEGEND

 3-Inch OD split- spoon sample with % recovered

NR No sample recovery

 Encountered groundwater level while drilling

 Static groundwater level on 6/19/00

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-2

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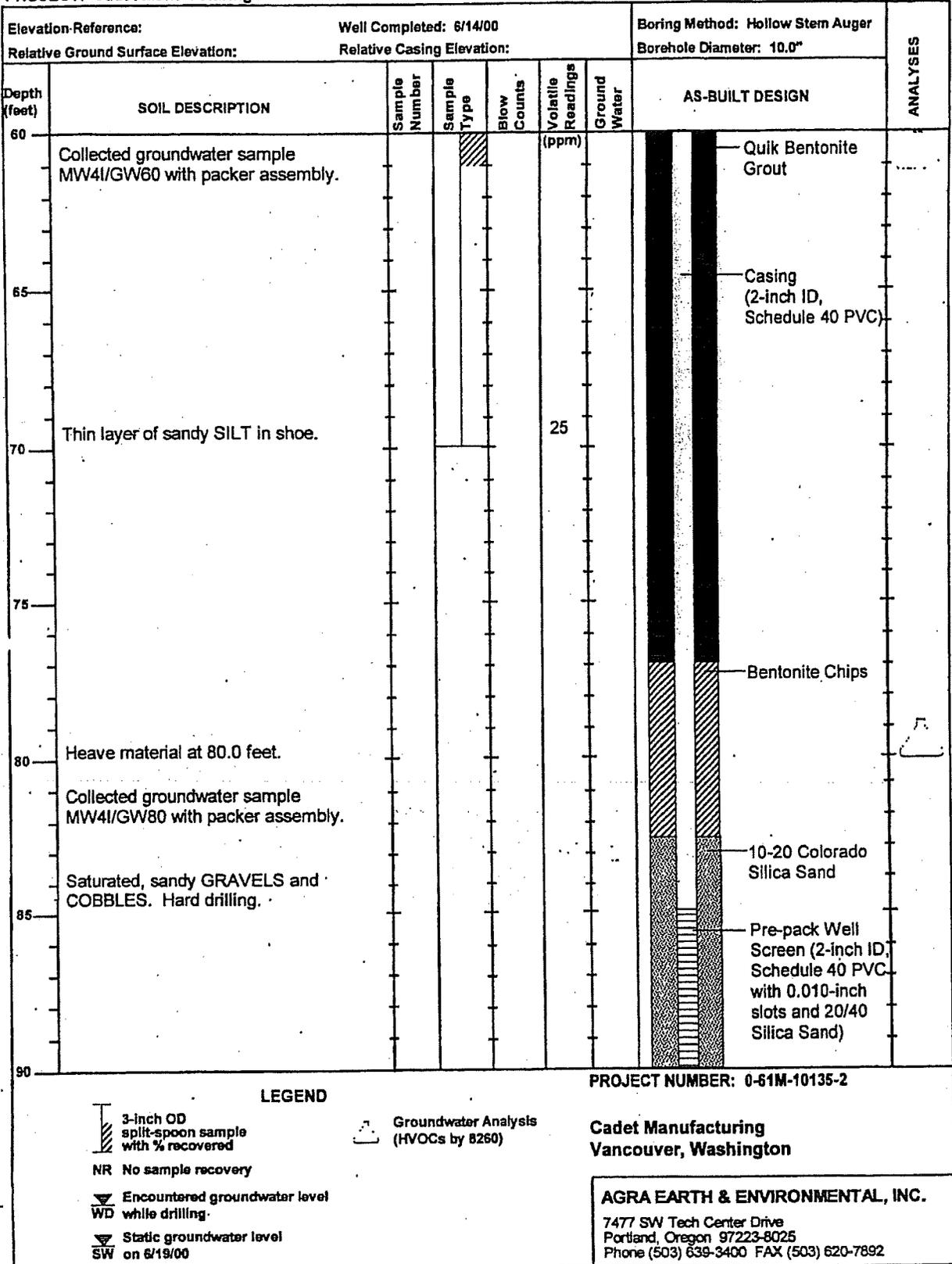
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Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/13/00

Drilling Completed: 6/14/00

Logged By: B. Lary

I10135MW4IPG2.DRW



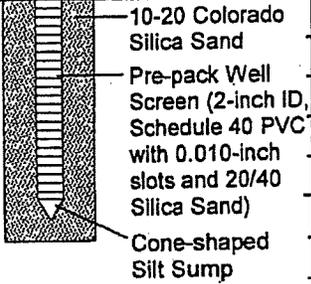
Drilling Started: 6/13/00

Drilling Completed: 6/14/00

Logged By: B. Lary

V10135MW4IPG3.DRW

Elevation Reference: Well Completed: 6/14/00 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 10.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
90	Lots of heave during well completion.							
95								
	Total depth = 97.0 feet.							
100								
105								
110								
115								
120								

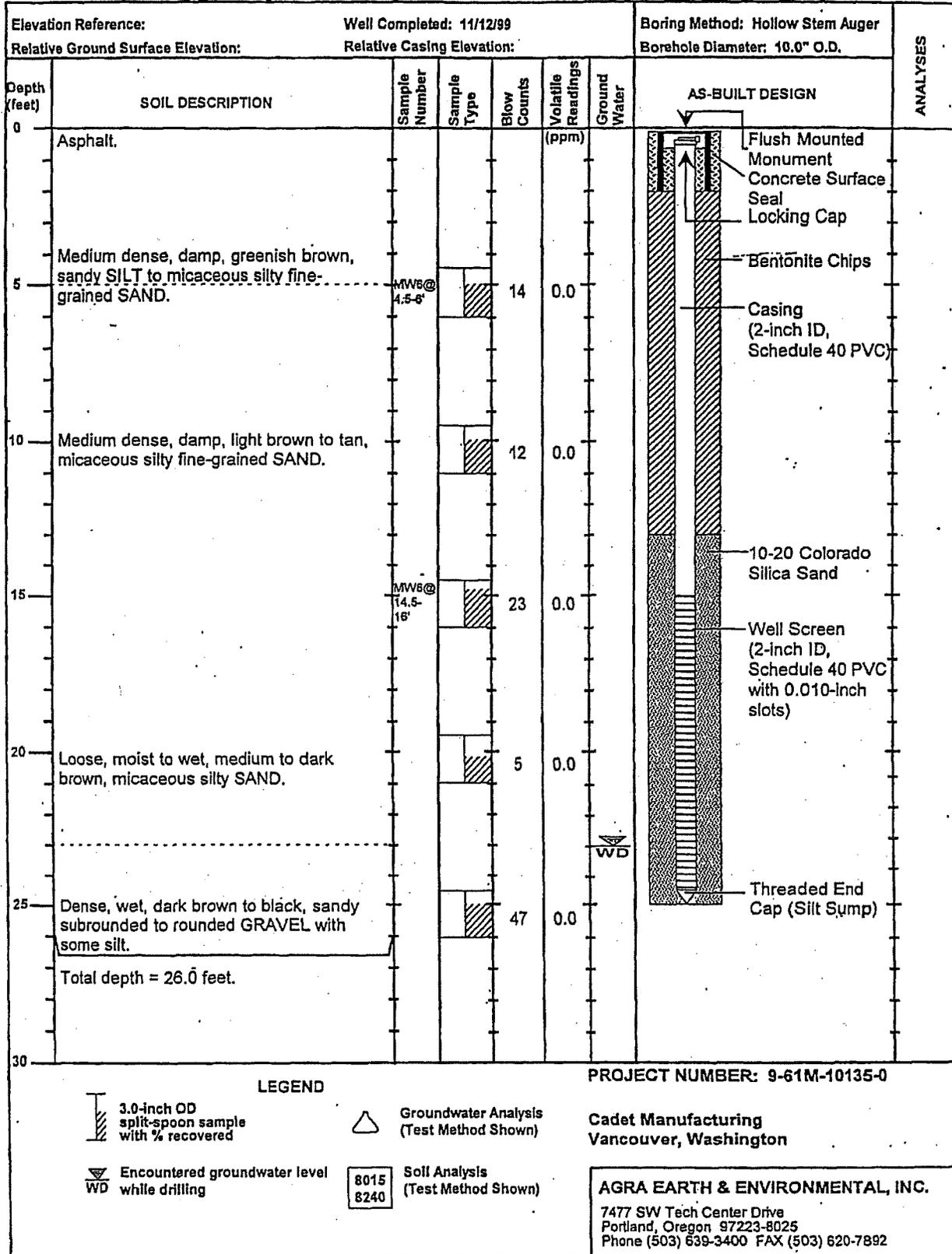
PROJECT NUMBER: 0-61M-10135-2

LEGEND

 3-inch OD split- spoon sample with % recovered	 Groundwater Analysis (HVOCs by 8250)
NR No sample recovery	 Encountered groundwater level
 WD while drilling	 Static groundwater level
 SW on 6/19/00	

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LEGEND

3.0-inch OD split-spoon sample with % recovered

Groundwater Analysis (Test Method Shown)

Encountered groundwater level while drilling

Soil Analysis (Test Method Shown)

8015
8240

PROJECT NUMBER: 9-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/11/99

Drilling Completed: 11/12/99

Logged By: B. Lary

#110135MW5.DRW

Elevation Reference:		Well Completed: 11/16/99		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 10.0" O.D.			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	4.0-inch layer of asphalt over base course gravel FILL.						
	Dry, brown, silty SAND/sandy SILT.						
5	Medium dense, damp, greenish brown, sandy SILT to micaceous silty fine-grained SAND.						
10	Medium dense, damp, light brown to tan, micaceous silty fine-grained SAND.						
20	Loose, moist to wet, medium to dark brown, micaceous silty SAND.						
	Sandy GRAVEL.						
25	Dense, wet, dark brown to black, sandy subrounded to rounded GRAVEL with some silt.						
30							

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

Soil Analysis (Test Method Shown)

8015
8240

PROJECT NUMBER: 9-61M-10135-0

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7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/11/99

Drilling Completed: 11/16/99

Logged By: B. Lary

a:\10135\MW5.DRW

Elevation Reference:		Well Completed: 11/16/99				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Sand lense at 29.5-30.5 feet.						Bentonite Grout	
	Larger gravel to cobbles.						Casing (2-inch ID, Schedule 40 PVC)	
35								
	SAND or SILT layer at 38.0-40.0 feet (easier drilling).							
40	Gravelly.							
	Slightly larger gravel.							
45								
	Layer of sand and smaller gravel at 53.0-54.0 feet.						Bentonite Chips and Heave	
50								
	Very gravelly.							
55	Collected groundwater sample MW5/57-60GW using the packer system.							8260
60								

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

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Drilling Started: 11/11/99

Drilling Completed: 11/16/99

Logged By: B. Lary

a:10135MW5PG2.DRW

Elevation Reference:		Well Completed: 11/16/99				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
60	Gravelly.						Bentonite Chips	
65							Casing (2-inch ID, Schedule 40 PVC)	
70	Small or no gravel at 70.0-78.0 feet (easy drilling).						Bentonite Pellets	
75	Collected groundwater sample MW5/76-78GW using the packer system.							8260 Duplicate
	Gravelly.							
80	Large GRAVEL.							
	SAND.						10-20 Colorado Silica Sand	
85							Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots prepack with Colorado Silica sand)	
90								

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (Test Method Shown)

8015
8240 Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

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Vancouver, Washington

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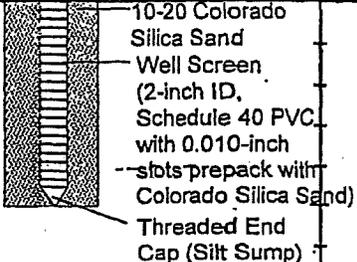
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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/11/99

Drilling Completed: 11/16/99

Logged By: B. Lary

8:10135MW5PG3.DRW

Elevation Reference:		Well Completed: 11/16/99				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0" O.D.		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90	SAND.						 <p>10-20 Colorado Silica Sand Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots prepack with Colorado Silica Sand) Threaded End Cap (Silt Sump)</p>	
95	Total depth = 95.0 feet.							
100								
105								
110								
115								
120								

LEGEND



Encountered groundwater level while drilling



Groundwater Analysis (Test Method Shown)



Soil Analysis (Test Method Shown)

PROJECT NUMBER: 9-61M-10135-0

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Drilling Started: 11/11/99

Drilling Completed: 11/16/99

Logged By: B. Lary

a110135MW5PG4.DRW

Elevation Reference: Well Completed: 7/11/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
							Diagram	Labels	
0	Asphalt with base course gravel FILL.							Flush Mounted Monument Concrete Surface Seal Locking Cap Bentonite Chips Quik-Grout Bentonite Casing (2-inch ID, Schedule 80 PVC)	
0-5	Moist, dark brown, sandy SILT with few gravel.								
5	Sandier.	MW5d/3-5'							
10	Dry, brown, medium- to fine-grained, silty, micaceous SAND.								
15									
20									
25									
25-30	Loose, wet, brown, sandy GRAVEL.								

PROJECT NUMBER: 0-61M-10135-1

LEGEND

- 3-inch OD split-spoon sample with % recovered
- 3.0 inch O.D. undisturbed sampler with percent recovered
- Encountered groundwater level while drilling
- Groundwater Analysis (HVOCs by 8260)

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Drilling Started: 7/5/00 Drilling Completed: 7/11/00 Logged By: B. Lary 110135MW5d.DRW

Elevation Reference:		Well Completed: 7/11/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
30	Wet, black, subrounded to subangular, sandy GRAVEL (predominantly basalt with some (10% or less) other).						Quik-Grout Bentonite Casing (2-inch ID, Schedule 80 PVC)		
35	Interbedded SAND layers.								
40	Heaving material into casing.								
45									
50	Interbedded SANDS and fine GRAVEL with sandy, coarse gravel.								
55									
60									

PROJECT NUMBER: 0-61M-10135-1

**Cadet Manufacturing
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LEGEND

-  3-inch OD split-spoon sample with % recovered
-  3.0" O.D. undisturbed sampler with percent recovered
-  Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)

Drilling Started: 7/5/00

Drilling Completed: 7/11/00

Logged By: B. Lary

110135MW5dPG2.DRW

Elevation Reference: Well Completed: 7/11/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
60	Interbedded SAND and sandy GRAVEL. Gravel is more subangular and less rounded.						Quik-Grout Bentonite Casing (2-inch ID, Schedule 80 PVC)	
65								
70	Water coming up with cuttings is clear (previously very turbid). Only small GRAVEL coming up with occasional large gravel.							
75								
80	Coarse GRAVEL with few cobbles. Hard drilling.							
85	Medium to coarse GRAVEL with few cobbles.							
90								

PROJECT NUMBER: 0-61M-10135-1

LEGEND

 3-inch OD split-spoon sampler with % recovered

 3.0" O.D. undisturbed sampler with percent recovered

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOcs by 8260)

Cadet Manufacturing
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 Portland, Oregon 97223-9025
 Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference:		Well Completed: 7/11/00				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90	Interbedded fine GRAVEL.						Quik-Grout Bentonite	
95							Casing (2-inch ID, Schedule 80 PVC)	
100	Collected groundwater sample MW5d/GW100.	MW5d/100-101.5		32	60			
105								
110								
115	Interbedded thin SANDS with gravel.							
	Getting coarser - harder drilling.							
120								

PROJECT NUMBER: 0-61M-10135-1

LEGEND

- 3-inch OD split-spoon sample with % recovered
- Groundwater Analysis (HVOCS by 8260)
- 3.0" O.D. undisturbed sampler with percent recovered
- Encountered groundwater level while drilling

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 7/5/00

Drilling Completed: 7/11/00

Logged By: B. Lary

110135MW5dPG4.DRW

Elevation Reference:		Well Completed: 7/11/00		Boring Method: Air Rotary		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 6.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Void Ratio Readings (ppm)	Ground Water	AS-BUILT DESIGN
120	Wet, brown and black, gravelly COBBLES. Collected groundwater sample MW5d/GW120.	MW5d/119.5-121		8	1.7		Quik-Grout Bentonite Casing (2-inch ID, Schedule 80 PVC)
125							
130	Drilled through a boulder.						
135	Wet, black, coarse-grained SAND to medium GRAVEL with few cobbles.						
140	Dense, wet, coarse, sandy GRAVEL with few cobbles and little silt. Collected groundwater sample MW5d/GW140.	MW5d/140-141.5			28		
145	Wet, medium- to fine-grained, silty, micaceous SAND.						
150							

LEGEND

 3-inch OD split-spoon sample with % recovered

 Groundwater Analysis (HVOCs by 8260)

 3.0" O.D. undisturbed sampler with percent recovered

 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-1

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 7/5/00

Drilling Completed: 7/11/00

Logged By: B. Lary

110135\MW5d\PG5.DRW

Elevation Reference:		Well Completed: 7/11/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
150	Fine-grained, silty SAND.						Quik-Grout Bentonite Casing (2-inch ID, Schedule 80 PVC)		
155									
160	Wet, brown with black, fine-grained SAND. No groundwater sample due to heaving conditions.								
165									
170									
175	Some silt.								
180									

PROJECT NUMBER: 0-61M-10135-1

LEGEND

-  3-inch OD split- spoon sample with % recovered
-  3.0" O.D. undisturbed sampler with percent recovered
-  Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)

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 Portland, Oregon 97223-8025
 Phone (503) 539-3400. FAX (503) 620-7892

Drilling Started: 7/5/00

Drilling Completed: 7/11/00

Logged By: B. Lary

V0135MW5dPG6.DRW

Elevation Reference: Well Completed: 7/11/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
180	Wet, brown, fine-grained, silty, micaceous SAND with few gravel. Collected groundwater sample MW5d/GW180.						Quik-Grout Bentonite	
185	Sandy GRAVEL, producing abundant water. Hard drilling.						Casing (2-inch ID, Schedule 80 PVC)	
190	Wet, black, coarse, sandy GRAVEL with few cobbles and fines. Gravel is subangular to subrounded. Coarse-grained sand is angular to subangular.							
195								
200								
205	Dense, sandy GRAVEL. Extremely hard drilling.						20/40 Colorado Silica Sand	
							10-20 Colorado Silica Sand	
							Centralizer	
							Pre-pack Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots and 20/40 Silica Sand)	
210	Dense, wet, black and brown, gravelly SAND.							

LEGEND

-  3-inch OD split-spoon sample with % recovered
-  3.0 inch O.D. undisturbed sampler with percent recovered
-  Encountered groundwater level while drilling
-  Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 7/5/00 Drilling Completed: 7/11/00 Logged By: B. Lary 10135MW5dPG7.DRW

Elevation Reference:		Well Completed: 7/11/00				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
210	Interbedded SANDS and GRAVEL.						<p>10-20 Colorado Silica Sand</p> <p>Pre-pack Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots and 20/40 Silica Sand)</p> <p>Cone-shaped Silt Sump</p>	
215								
220	Troutdale Formation. Cemented sandy, rounded to subrounded, basalt, quartzite, and other GRAVEL. Reduction in water production.						<p>Cave</p> <p>Boring sidewalls caved from 217.0-221.0 feet. No grout fill needed.</p>	
	Total depth = 221.0 feet.							
225								
230								
235								
240								

PROJECT NUMBER: 0-61M-10135-1

LEGEND

- 3-inch OD split-spoon sample with % recovered
- 3.0" O.D. undisturbed sampler with percent recovered
- Encountered groundwater level while drilling
- Groundwater Analysis (HVOCs by 8260)

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Phone (503) 539-3400 FAX (503) 620-7892

Drilling Started: 7/5/00

Drilling Completed: 7/11/00

Logged By: B. Lary

110135MW5dPG8.DRW

Elevation Reference: Well Completed: 6/12/00 & 2/21/01 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES	
0	Asphalt.						Flush Mounted Monument Concrete Surface Seal Locking Cap Bentonite Chips		
5	Loose, damp, brown, silty, fine-grained SAND.			10	1,000		Casing (2-inch ID, Schedule 40 PVC)		
10	Medium dense, brown, silty, fine- to medium-grained SAND.			14	1,650				
15	Very dense, black and brown, sandy GRAVEL. Sand layer at 16.0 feet (2/21/01). Coarser GRAVEL.			50+	650		10-20 Colorado Silica Sand		
20	Dense, black and brown, sandy GRAVEL (some 2.0 inches plus). Coarse GRAVEL (approximately 3.0-inch fragments) at 21.0 feet (2/21/01).			43	325		Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots)		
25	Dense, saturated, sandy GRAVEL.			40	0.0	WD & SW 6/12/00			
30	Total depth = 26.5 feet on 6/12/00. Installed well to 26.5 feet. Start Card Number: R44084, Tag Number: AEP657								

LEGEND

- 2.0-inch OD split-spoon sample with % recovered
- NR No sample recovery
- Encountered groundwater level while drilling
- Static groundwater level on 6/19/00

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/12/00 & 2/21/01 Drilling Completed: 6/12/00 & 2/21/01 Logged By: B. Lary/K. Finucane/JWM

Elevation Reference:		Well Completed: 6/12/00 & 2/21/01				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Coarse, sandy GRAVEL						<p>10-20 Colorado Silica Sand</p> <p>Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots)</p> <p>Cone-shaped Silt Sump</p>	
	Rate of penetration increases. Water at 32.5 feet.					WD 2/21/01		
35	Total depth = 34.5 feet on 2/21/01.							
40								
45								
50								
55								
60								

LEGEND

2.0-inch OD split-spoon sample with % recovered

NR No sample recovery

Encountered groundwater level while drilling

Static groundwater level on 8/19/00

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/12/00 & 2/21/01

Drilling Completed: 6/12/00 & 2/21/01

Logged By: B. Lary/K. Finucane/JWM

110735MW6s.DRW

Elevation Reference:		Well Completed: 6/14/00				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Asphalt.						Flush Mounted Monument Concrete Surface Seal Locking Cap	
5	Loose, damp, brown, silty, fine-grained SAND.			11	0.0		Bentonite Chips Casing (2-inch ID, Schedule 40 PVC)	
10	Medium dense, slightly coarser SAND.			14	174			
15	Dense, damp, brown and rust, gravelly SAND with some silt. Coarser GRAVEL.			50+	244			
20	With interbedded sand and smaller gravel. Very dense, moist, brown, silty, sandy GRAVEL.			50+	218			
25	Sandy basalt GRAVEL (> 2.0 inches).			50+	328		10-20 Colorado Silica Sand Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots)	
30								

PROJECT NUMBER: 0-61M-10135-1

LEGEND

-  2.0-inch OD split-spoon sample with % recovered
-  Encountered groundwater level while drilling
-  Static groundwater level on 6/19/00

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Drilling Started: 6/12/00

Drilling Completed: 6/14/00

Logged By: B. Lary

10135MW7s.DRW

Elevation Reference: Well Completed: 6/14/00 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 10.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
30	Sandy basalt GRAVEL (> 2.0 inches).			50+	355		<p>10-20 Colorado Silica Sand</p> <p>Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots)</p> <p>Cone-shaped Silt Sump</p>	
35	Dense, wet, brown and black, sandy basalt GRAVEL with some silt.			38	218	 		
40	Interbedded coarse-grained SAND and GRAVEL. COBBLES. Harder drilling.							
45	Total depth = 45.0 feet.							
50								
55								
60								

LEGEND

- 2.0-Inch OD split-spoon sample with % recovered
- Encountered groundwater level while drilling
- Static groundwater level on 6/19/00

PROJECT NUMBER: 0-61M-10135-1

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Drilling Started: 6/12/00 Drilling Completed: 6/14/00 Logged By: B. Lary 110135MW7sPG2.DRW

Elevation Reference: Well Completed: 7/22/02 Boring Method: Direct Push/
 Relative Ground Surface Elevation: Relative Casing Elevation: Hollow Stem Auger
 Borehole Diameter: 6.25"

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	Asphalt.						Flush Mounted Monument		
							Concrete Surface Seal		
							Locking Cap		
5	SILTY SAND (SP), loose, damp, brown, fine-grained.			11	0.0		Bentonite Chips		
							Casing (2-inch ID, Schedule 40 PVC)		
10	SAND, medium dense, slightly coarser-grained.			14	174				
15	GRAVELLY SAND, dense, damp, brown and rust, some silt.			50+	244				
20	SILTY SANDY GRAVEL, very dense, moist, brown. Interbedded sand and smaller gravel.			50+	218				
25	SANDY GRAVEL, (> 2.0 inches), basalt.			50+	328				
30							Bentonite Grout (Approximately 200 gallons)		

PROJECT NUMBER: 2-61M-10135-M T3

LEGEND

- 2.0-inch OD split-spoon sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Encountered groundwater level while drilling
- Static groundwater level on 7/16/02
- * Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 7/16/02 Drilling Completed: 7/22/02 Logged By: C. Bartlett/K. Finucane/B. Lary

Elevation Reference: Well Completed: 7/22/02 Boring Method: Direct Push/
 Relative Ground Surface Elevation: Relative Casing Elevation: Hollow Stem Auger
 Borehole Diameter: 6.25"

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES	
30	SANDY GRAVEL, (> 2.0 inches), basalt.			50+	355		Bentonite Grout (Approximately 200 Gallons) Casing (2-inch ID, Schedule 40 PVC)		
35	SANDY GRAVEL, dense, wet, brown and black, basalt, some silt.			38	218	SW			
40	SAND and GRAVEL, coarse-grained, interbedded. COBBLES. Harder drilling.					WD			
45	SANDY GRAVEL, wet, 60% angular (0.125-0.25 inch), 40% subrounded, gravel and cobbles, no fines.								
50	Very hard drilling.								
60	Collected groundwater sample MW7/GW60.								

LEGEND

2.0-Inch OD split-spoon sample with % recovered

Groundwater Analysis (Test Method Shown)

Encountered groundwater level while drilling

Static groundwater level on 7/18/02

* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

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Drilling Started: 7/16/02

Drilling Completed: 7/22/02

Logged By: C. Bartlett/K. Finucane/B. Lary

110135MW71PG2.DRW

Elevation Reference:		Well Completed: 7/22/02					Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
60	No discrete soil samples collected. Augers advanced with wood plug. Lithology logged based on drilling character and limited cuttings. Average gravels 1-2 inches, up to 4 inches, round to subrounded basalt.						Bentonite Grout (Approximately 200 Gallons) Casing (2-inch ID, Schedule 40 PVC)		
65	Very hard drilling.								
70									
75	GRAVELS, hard drilling.								
80	Slightly easier drilling.								
85									
90									

PROJECT NUMBER: 0-61M-10135-1

LEGEND

	2.0-inch OD split-spoon sample with % recovered		Groundwater Analysis (Test Method Shown)
	Encountered groundwater level while drilling		
	Static groundwater level on 7/16/02		

* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.

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Vancouver, Washington

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Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 7/16/02 Drilling Completed: 7/22/02 Logged By: C. Bartlett/K. Finucane/B. Lary

Elevation Reference:		Well Completed: 7/22/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90							Bentonite Grout (Approximately 200 Gallons)	
							Casing (2-inch ID, Schedule 40 PVC)	
95							20/40 Colorado Silica Sand	
							10/20 Colorado Silica Sand	
100							Prepack Well Screen (2-inch ID, 4-inch OD, Schedule 40 PVC with 0.010-inch slots with 20/40 Colorado Silica Sand)	
105	Very hard drilling.							
	Total depth of well = 109.0 feet below ground surface.							
110	Redrilled boring and set monitoring well.						Stainless Steel End Cap	8260
115								
120								

PROJECT NUMBER: 2-61M-10135-M T3

<p>LEGEND</p> <p> 2.0-inch OD split spoon sample with % recovered</p> <p> Encountered groundwater level while drilling</p> <p>WD</p> <p> Static groundwater level on 7/16/02</p> <p>SW</p> <p>* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.</p>	<p> Groundwater Analysis (Test Method Shown)</p>	<p>Cadet Manufacturing Vancouver, Washington</p> <hr/> <p>AMEC EARTH & ENVIRONMENTAL, INC. 7376 SW Durham Road Portland, Oregon 97224 Phone (503) 639-3400 FAX (503) 620-7892</p>
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Drilling Started: 7/16/02

Drilling Completed: 7/22/02

Logged By: C. Bartlett/K. Finucane/B. Lary

10135MW7IPG4.DRW

Elevation Reference:	Well Completed: 8/21/02	Boring Method: Air Rotary
Relative Ground Surface Elevation:	Relative Casing Elevation:	Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-245.0'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	SILT (ML), moist, medium brown, cobbles (gravel).						Flush-Mounted Monument		
							Concrete Surface Seal		
							Locking Cap		
5							Bentonite Chips (96 Bags)		
							Casing (2-inch OD, Schedule 80 PVC)		
10									
	SAND (SP), very coarse-grained, pebbles/ cobbles (gravel).								
15									
	GRAVEL (GP), up to 1.5-foot clasts, 10% very coarse-grained sand, some silt.								
20									
	Occasional cobbles (approximately 3.0 inches).								
25									
30									

LEGEND
 Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

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* No soil sampling. Descriptions are based on soil cuttings and drilling character.

Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary 10135MW7d.DRW

Elevation Reference:		Well Completed: 8/21/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-245.0'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30								
35							Bentonite Chips (96 Bags) Casing (2-inch OD, Schedule 80 PVC)	
40	GRAVEL (GP), 1/8-inch to 1.0-inch, subrounded to rounded, bimodal angular smaller clasts, no fines.							
45								
50								
55	GRAVEL, 1/8-inch to 1.5-inch, no fines.						Bentonite Grout (500 Gallons)	
60								

LEGEND

 Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

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Vancouver, Washington**

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Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

V10135MW7dPG2.DRW

Elevation Reference: Well Completed: 8/21/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-160.0'
 6.0" 160.0-245.0'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
60							Bentonite Grout (500 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
65								
70								
75								
80	SAND layer.							
85	GRAVEL (GP), black (basalt), white to tan (quartzite), red and black (chert), gray (siltstone, lithic fragments), approximately 1/8-inch to 1.5-inch, some interbedded very coarse-grained sand, no fines.							
90								

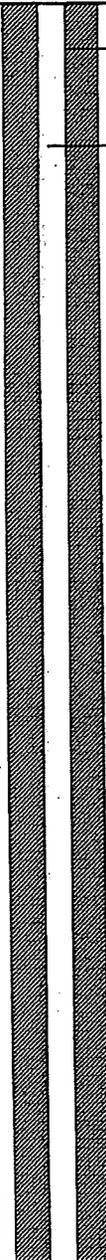
LEGEND

 Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0
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 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/13/02 Drilling Completed: 8/21/02 Logged By: K. Finucane/B. Lary

Elevation Reference:		Well Completed: 8/21/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0'		
						6.0" 160.0-245.0'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90	GRAVEL (GP), black (basalt), white to tan (quartzite), red and black (chert), gray (siltstone, lithic fragments), approximately 1/8-inch to 1.5-inch, some interbedded very coarse-grained sand, no fines.						 Bentonite Grout (500 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
95								
100								
105	GRAVEL (GP), coarse, angular basalt, well-rounded, claystone, quartzite.							
110	SANDY GRAVEL (GP), very coarse-grained.							
115								
120								

LEGEND



Groundwater Analysis
(Test Method Shown)

- No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
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Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

110135MW7dPG4.DRW

Elevation Reference:		Well Completed: 8/21/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0" 6.0" 160.0-245.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
120	GRAVEL (GP), very coarse, (cobbles approximately 1.0-inch to 3.0-inch).						Bentonite Grout (500 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
125								
130	Some very coarse-grained sand.							
135	GRAVEL, coarse (70%) with very coarse-grained sand (30%).							
140								
145								
150								

LEGEND

△ Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

**Cadet Manufacturing
Vancouver, Washington**

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

110135MW7dPG5.DRW

Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

Elevation Reference:		Well Completed: 8/21/02					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-245.0'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
150	SANDY GRAVEL (GP), very coarse-grained, angular, rounded chert, quartzite, and sedimentary lithics, very angular vesicular basalt fragments (> 4.0-inch).						Bentonite Grout (500 Gallons)		
155							Casing (2-inch OD, Schedule 80 PVC)		
160	Switched to 6.0-inch casing.								
165									
170	SANDY GRAVEL (GP), very coarse-grained, angular, no cementation, some rounded pebbles (approximately 2.0-inch).								
175	Basalt fragments increase.								
180									

LEGEND



Groundwater Analysis (Test Method Shown)

- No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

110135\MW7dPG6.DRW

Elevation Reference:	Well Completed: 8/21/02	Boring Method: Air Rotary
Relative Ground Surface Elevation:	Relative Casing Elevation:	Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-245.0'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
180							Bentonite Grout (500 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
185								
190								
195								
200	SANDY GRAVEL (GP), approximately 0.25-inch to 0.5-inch, angular, few cemented, rounded pebbles.							
205	Some cemented (or coated with granular rind), rounded pebbles.							
210								

LEGEND

 Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0
Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
 7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

110135MW7dPG7.DRW

Elevation Reference:		Well Completed: 8/21/02					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-245.0'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
210							<ul style="list-style-type: none"> Bentonite Grout (500 Gallons) 20/40 Colorado Silica Sand Casing (2-inch OD, Schedule 80 PVC) Centralizer 10/20 Colorado Silica Sand Prepack Well Screen (2-inch ID, 4-inch OD, Schedule 80 PVC with 0.010-inch slots with 20/40 Colorado Silica Sand) Threaded End Cap Bentonite Chips (7 Bags) 		
215									
220									
225	Casing stuck. Open hole, no caving.								
230	TGA - harder drilling, reduced water production, cemented gravel (75% basalt, 10% quartzite, and 15% volcanics), able to drill with bit and maintain an open hole.								
235									
240									

LEGEND

△ Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
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Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

110135MW7dPG8.DRW

005898

Elevation Reference:		Well Completed: 8/21/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-245.0'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
240							 Bentonite Chips (7 Bags)	
245	Total depth = 245.0 feet below ground surface.							
250								
255								
260								
265								
270								

LEGEND



Groundwater Analysis
(Test Method Shown)

- No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/13/02

Drilling Completed: 8/21/02

Logged By: K. Finucane/B. Lary

110135MW7dPG9.DRW

Elevation Reference:		Well Completed: 6/12/00		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 8.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	Asphalt.						
5	Damp, brown and rust, sandy SILT with little clay.			5	97		
10	Damp, brown, silty, fine-grained SAND.			11	65		
15				12	64		
20	Moist, brown and black, silty, medium-grained SAND grading to coarse-grained SAND.			20	50	SW	
25	Wet, black and dark brown, sandy GRAVEL.			50+	44	WD	
Total depth = 26.5 feet.							
30							

LEGEND

- 2.0-inch OD split-spoon sample with % recovered
- NR No sample recovery
- Encountered groundwater level
- WD while drilling
- Static groundwater level on 6/19/00

PROJECT NUMBER: 0-61M-10135-1

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

110135MW8s.DRW

Drilling Started: 6/12/00

Drilling Completed: 6/12/00

Logged By: B. Lary

AMEC 039556

Elevation Reference:		Well Completed: 6/15/00				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
+5							Above Ground Monument Steel Protective Post Concrete Surface Seal Locking Cap Bentonite Chips Casing (2-inch ID, Schedule 40 PVC) 10-20 Colorado Silica Sand Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots) End Cap	
0	Rooty organic topsoil. Medium stiff, dry, light brown SILT with occasional organics.							
5	Medium stiff, slightly damp, medium brown, micaceous, fine sandy SILT.	MW9 @5-6.5'		8				
10	Medium dense, damp, gray-brown, poorly graded, micaceous, fine-grained SAND.	MW9 @10-12'						
15	Medium dense, wet, gray, poorly graded, micaceous, fine- to medium-grained SAND.	MW9 @15-16.5'		12		WD		
20	Loose, wet, gray, poorly graded, micaceous, fine-grained SAND.	MW9 @20-21.5'		6		SW		
25	Total depth = 23.0 feet.							

LEGEND

-  2.0-inch OD split-spoon sample with % recovered
-  3.0" O.D. undisturbed sampler with percent recovered
-  Encountered groundwater level
-  WD while drilling
-  Static groundwater level
-  SW on 6/19/00

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/15/00

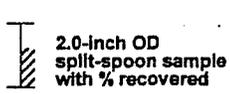
Drilling Completed: 6/15/00

Logged By: S. Bourcy

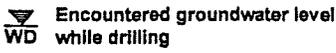
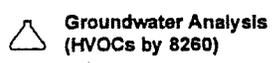
110135MW9s.DRW

AMEC 039557

Elevation Reference:		Well Completed: 11/9/00				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Asphalt.							
5	Very stiff, dry, light tan, fine, sandy SILT.	MW10s @5		18	0.0			
10	Stiff, moist, medium brown, sandy SILT grading into mottled clayey SILT.	MW10s @10		15	0.0			
15	Dense, dry, gray, medium- to coarse-grained SAND with gravel (5%); 2.0-inch lense of wet, clayey SILT at top.	MW10s @15		49	0.0			
20	Dense, dry, dark gray, medium- to coarse- grained SAND with gravel (approximately 15%).	MW10s @20		32	0.0			
25	Sampler is wet - sloughing SILTS within sampler.	MW10s @25		49	0.0			
30								



LEGEND



PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
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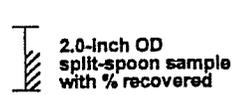
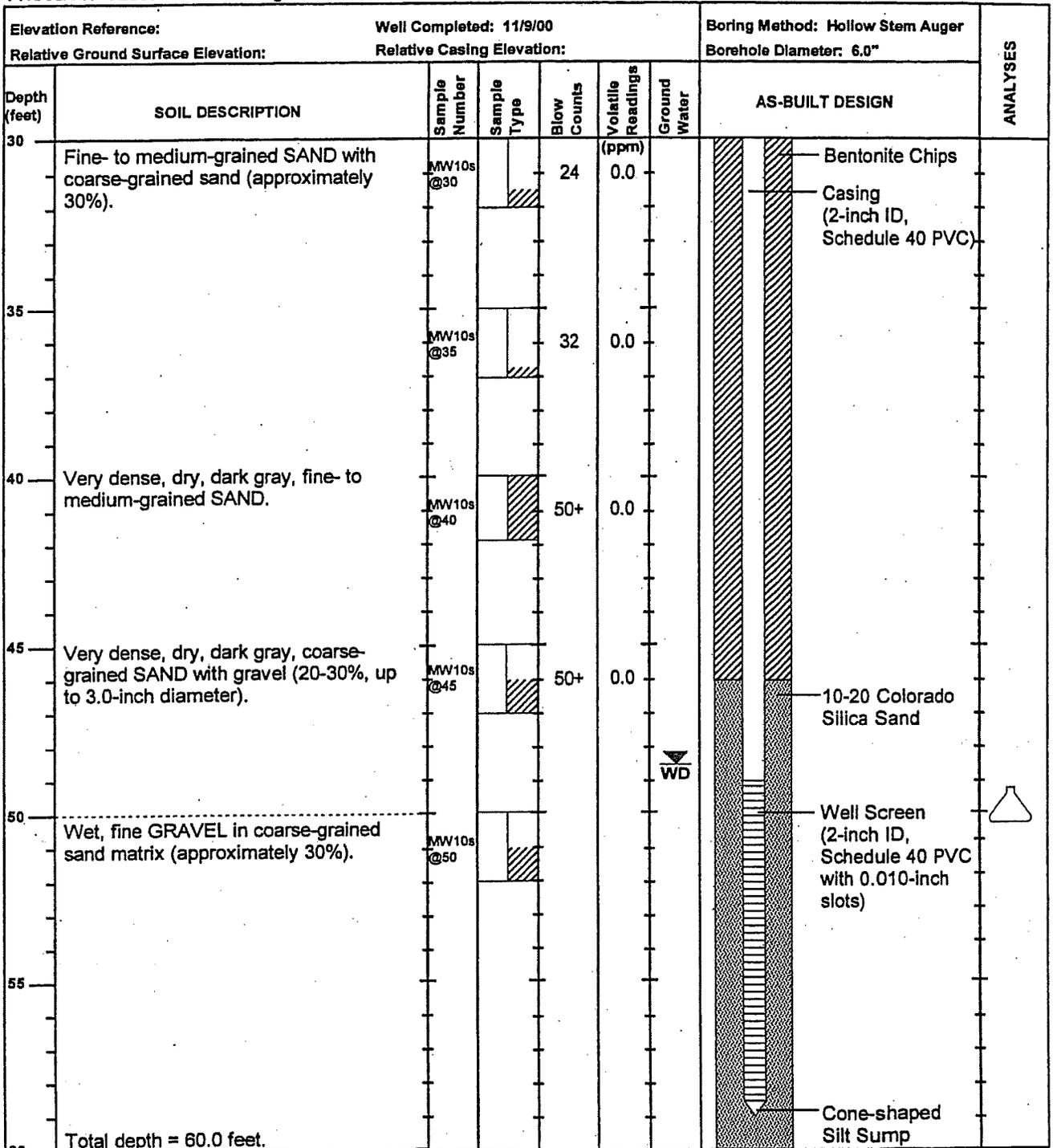
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/9/00

Logged By: C. Bartlett

110135MW10s.DRW



LEGEND

Groundwater Analysis (HVOCs by 8260)

Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/9/00

Drilling Completed: 11/9/00

Logged By: C. Bartlett

110135MW10sPG2.DRW

Elevation Reference:

Well Completed: 11/21/00

Boring Method: Air Rotary

Relative Ground Surface Elevation:

Relative Casing Elevation:

Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	Broken asphalt.							Flush Mounted Monument	
	Moist, brown SILT.							Concrete Surface Seal	
								Locking Cap	
5								Bentonite Grout	
								Casing (2-inch ID, Schedule 80 PVC)	
10									
	Becomes wet.								
15	Wet, brown, gravelly SILT.								
	Silty, sandy GRAVEL.								
	Sandy GRAVEL. Silt content decreases.								
20									
	Fine- to medium-grained SAND with trace fine gravel and silt.								
25									
30									

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCS by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

110135MW10d.DRW

AMEC 039560

Elevation Reference:		Well Completed: 11/21/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
30							Bentonite Grout		
35							Casing (2-inch ID, Schedule 80 PVC)		
40	Grades to poorly graded, fine- to medium-grained SAND (<5% gravel). Silt content decreases.								
45	Interlayered SAND and gravelly SAND. Gravel content increases (10-20%).								
50	Grades to wet, medium to coarse, gravelly SAND. Becomes saturated. Water flowing out of cyclone.								
55	Wet, sandy, fine, rounded to subrounded GRAVEL (composed of 80% basalt (volcanic clasts), 20% quartzite, and other metamorphic and sedimentary clasts).								
60									

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

**Cadet Manufacturing
Vancouver, Washington**

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7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

V0135MW10dPG2.DRW

AMEC 03950

Elevation Reference:		Well Completed: 11/21/00				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
60							Bentonite Grout	
65	Fine- to medium-grained SAND. Water production increases.						Casing (2-inch ID, Schedule 80 PVC)	
70	Becomes gravelly. Sandy, fine GRAVEL.							
75	Fine- to medium-grained SAND with trace silt.							
80								
85								
90	Well-graded, gravelly, fine- to medium-grained SAND.							

PROJECT NUMBER: 0-61M-10135-3

LEGEND

 Encountered groundwater level while drilling
 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
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 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference:		Well Completed: 11/21/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
90	Gravel content increases. Harder drilling. Sandy, fine GRAVEL (medium- to coarse-grained sand).						Bentonite Grout		
95							Casing (2-inch ID, Schedule 80 PVC)		
100	Water production increases at 100.0 feet. Collected groundwater sample at MW10d/GW100'. (11/16/00)								
105	CLAY layer at 105.0-106.0 feet.								
	Sandy GRAVEL with cobbles.								
110									
115									
120									

PROJECT NUMBER: 0-61M-10135-3

LEGEND

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

110135MW10dPG4.DRW

AMEC 039563

Elevation Reference: Well Completed: 11/21/00 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
120							Bentonite Grout	
125							Casing (2-inch ID, Schedule 80 PVC)	
130								
135								
140	Medium- to coarse-grained SAND with trace gravel.							
140	Collected groundwater sample MW10d/GW140'. (11/16/00) Gravelly SAND (gravel content increases to 10-20%).							△
145	Poorly graded, fine- to medium-grained SAND.							
150	Sandy GRAVEL.							

TF?

LEGEND

Encountered groundwater level while drilling
 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

**Cadet Manufacturing
Vancouver, Washington**

AGRA EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

10135MW10dPG5.DRW

AMEC 039564

Elevation Reference:		Well Completed: 11/21/00				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
150	Fine- to medium-grained SAND.						Bentonite Grout Casing (2-inch ID, Schedule 80 PVC)	
	Sandy, fine to coarse GRAVEL.							
155								
160	Water has low turbidity at 160.0-170.0 feet.							
165								
170								
175								
180								

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

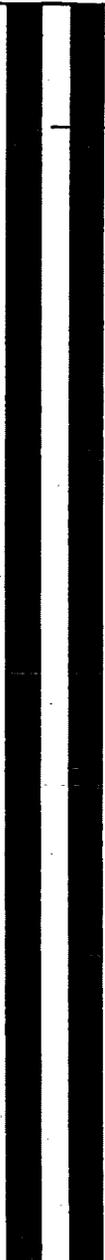
Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

110135MW10dPG6.DRW

AMEC 039565

Elevation Reference:		Well Completed: 11/21/00					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
180	SAND cements to outside of gravel clasts (5-10% gravel). Collected groundwater sample MW10d/GW180'. (11/16/00)						 Bentonite Grout Casing (2-inch ID, Schedule 80 PVC)		
185	Loose GRAVEL with sand matrix (no cementation). High water production.								
190									
	Gravelly SAND.								
195									
	Sandy GRAVEL (<5% gravel with cementation).								
200									
205									
210									

LEGEND

 Encountered groundwater level while drilling

 Groundwater Analysis (HVOCs by 8260)

PROJECT NUMBER: 0-61M-10135-3

Cadet Manufacturing
Vancouver, Washington

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

110135MW10dPG7.DRW

Elevation Reference:		Well Completed: 11/21/00				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
210	Silty, fine-grained SAND.							
215								
220	Sandy GRAVEL and medium- to coarse-grained SAND (30-45% quartzite and other non-volcanic clasts, 55-70% volcanic clasts - mainly basalt). Water is clear to moderately turbid.							
225								
230	Total depth = 230.9 feet.							
235								
240								

PROJECT NUMBER: 0-61M-10135-3

LEGEND

Encountered groundwater level while drilling
 Groundwater Analysis (HVOCs by 8260)

Cadet Manufacturing
 Vancouver, Washington

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 7477 SW Tech Center Drive
 Portland, Oregon 97223-8025
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 11/15/00

Drilling Completed: 11/21/00

Logged By: J. Fassio

110135MW10dPG8.DRW

AMEC 039567

Elevation Reference:		Well Completed: 3/4/02				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	GRAVEL, (FILL).						<p>Concrete Vault (30" X 30" X 30") with Metal Lid Concrete Surface Seal Locking Cap Bentonite Chips (3/8-inch) Casing (6-inch OD, Schedule 40 PVC)</p>	
5	SILT, (SM), medium stiff, moist to damp, brown, micaceous, very fine-grained sand.			7	0.0			
10	SILT, (SM), medium stiff, moist to damp, brown, micaceous, very fine-grained sand with 4.0-inch lens of SAND, loose, damp, brown, micaceous silt at 10.5 feet. Drilling denser at 13.5 feet.			6	0.0			
15	SAND, (SM), medium dense, moist, brown, some silt.			19	0.0			
20	GUS sampler used to collect Shelby tube sample. Lots of back pressure on sample. Piece of fabric pulled from bottom end of tube before tube was removed from sampler. Approximately 1.0 foot recovered. Sample possibly disturbed due to fabric on wall of sampler tube. GUS sampler used to collect samples at 22.0-24.0 feet and 25.0-27.0 feet. Similar amounts of back pressure.		NR					
25								
30	SAND, (SW), medium dense, moist, dark brown, few small gravel. Larger GRAVEL at 26.5 feet during drilling. Sandy at 28.0 feet and GRAVEL at 29.0 feet.							

LEGEND

- 2.0-inch OD / 3.0-inch OD split-spoon sample with % recovered
- 3.0-inch OD undisturbed sample with % recovered
- NR No sample recovery

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/22/02

Drilling Completed: 3/4/02

Logged By: B. Lary/SWBK

110135RW1.DRW

AMEC 039991

Elevation Reference:		Well Completed: 3/4/02				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	SAND, (SW), very dense, moist, dark brown, some fine-grained sand, silt, and gravel. Medium gravel in end of shoe.			50+	0.0		Bentonite Chips (3/8-inch)	
							Casing (6-inch OD, Schedule 40 PVC)	
35	SAND, (SW), very dense, wet, dark brown, coarse- to very coarse-grained, some gravel.			50+	0.0		10-20 Colorado Silica Sand	
	Switched to 3.0-inch diameter spoon at 40.0 feet. Continuous sieve sample collected.							
40	SAND, (SW), very dense, wet, dark brown to black, very coarse-grained, small subangular gravel.			50+			Well Screen (6-inch OD, Schedule 40 PVC with 0.050-inch slots Prepack with 6X9 Colorado Silica Sand)	
	Changed to SAND (driller observation) at 43.0 feet. Probably heaving SANDS.							
45	SAND, (SW), dense, wet, dark brown to black, coarse-grained, small to medium subangular gravel (some pieces > 1.5-inch diameter).			35				
	Heaving SANDS above sample.							
50	SAND, (SW), dense, wet, dark brown to black, coarse-grained, small subangular gravel.			32				
55	SAND, (SW), very dense, wet, dark brown to black, coarse-grained, small to medium subangular gravel (some pieces > 1.5-inch diameter).			50+				
60								
							NATIVE material sloughed into boring	
							Stainless Steel End Cap + Sump	

LEGEND

-  2.0-inch OD / 3.0-inch OD split- spoon sample with % recovered
-  3.0-inch OD undisturbed sample with % recovered
- NR No sample recovery

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/22/02

Drilling Completed: 3/4/02

Logged By: B. Lary/SWBK

110135RW1PG2.DRW

AMEC 03995

Elevation Reference:		Well Completed: 3/4/02				Boring Method: Hollow Stem Auger			ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
60	SAND, (SW), very dense, wet, dark brown to black, coarse-grained, small to medium subangular gravel (some pieces > 1.5-inch diameter).			50+			 NATIVE material sloughed into boring		
65		Total depth = 65.0 feet.							
70									
75									
80									
85									
90									

PROJECT NUMBER: 1-61M-10135-C T2

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Vancouver, Washington**

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LEGEND

-  2.0-inch OD / 3.0-inch OD split-spoon sample with % recovered
-  3.0-inch OD undisturbed sample with % recovered
- NR No sample recovery

Drilling Started: 2/22/02 Drilling Completed: 3/4/02 Logged By: B. Lary/SWBK 11 0135RW1PG3.DRW

Elevation Reference:		Well Completed: 2/28/02					Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
0	(No samples. Logging by drilling character and cuttings only.)								
5									
10	CLAYEY SILT to SANDY SILT, soft, damp, medium brown, mottled, very fine-grained.								
15	Drilling easily and consistent.					SW			
20									
25	Color grades to medium gray.								
28	GRAVELLY SANDS. Harder drilling - slight chatter.								
30	Very hard drilling last foot. Total depth = 30.0 feet.								

LEGEND

Static groundwater level on 2/28/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/28/02

Drilling Completed: 2/28/02

Logged By: C. Bartlett

110135MW11.DRW

AMEC 0399

Elevation Reference: Relative Ground Surface Elevation:		Well Completed: 2/28/02 Relative Casing Elevation:				Boring Method: Hollow Stem Auger Borehole Diameter: 6.0"		ANALYSES
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	(No samples. Logging by drilling character and cuttings only.)							
5	Relatively easy drilling to 10.0 feet.							
10	CLAYEY SILT to SANDY SILT, damp, medium brown, very fine-grained.							
15						SW		
20	SILT to CLAYEY SILT, damp, medium brown, mottled, very fine-grained, some sand.							
25	Relatively easy drilling.							
30	Hard drilling - GRAVEL. No GRAVEL returned in cuttings. Total depth = 30.0 feet.							

LEGEND

SW Static groundwater level on 2/28/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/28/02

Drilling Completed: 2/28/02

Logged By: C. Bartlett

110135MW12.DRW

AMEC 039995

Elevation Reference: Well Completed: 2/28/02 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	(No samples. Logging by drilling character and cuttings only.) Easy, smooth drilling.								
5	CLAYEY SILT, soft, damp, medium brown, mottled.								
10									
15	CLAYEY SILT to SANDY SILT, damp, medium brown to medium to dark gray-brown, mottled in upper section. SILT to SANDY SILT, lose clayey silt but maintain trace clay. Slightly harder drilling at 19.0-20.0 feet.					SW			
20									
25	Very slow, hard drilling. SAND to GRAVELLY SAND. Cuttings remain SANDY SILT.								
30									

LEGEND

Static groundwater level on 2/28/02

PROJECT NUMBER: 1-61M-10135-C T2
Cadet Manufacturing
Vancouver, Washington
AMEC EARTH & ENVIRONMENTAL, INC.
 7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference:		Well Completed: 2/28/02				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Very slow, hard drilling.							
35	SANDY SILT, very fine- to fine-grained sand, some silty sand.							
40	Hard drilling.							
45	Hard, slow drilling. Few cuttings returned.							
	Very hard and slow drilling. GRAVEL.							
	Very hard drilling at 47.0-50.0 feet. Slight chatter, occasional jump. GRAVEL.							
50								
55	Total depth = 55.0 feet.							
60								

LEGEND

▼ Static groundwater level
SW on 2/28/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/28/02

Drilling Completed: 2/28/02

Logged By: C. Bartlett

11 0135MW13PG2.DRW

AMEC 039997

Elevation Reference:		Well Completed: 2/28/02				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	(No samples. Logging by drilling character and cuttings only.)						Flush-Mounted Monument	
	SILT to CLAYEY SILT, soft, damp, light to medium brown, mottled, some very fine-grained sand.						Concrete Surface Seal	
5	Collected some cuttings for sieve analysis. Drilling easily and smoothly.						Locking Cap	
							Bentonite Chips (3/8-inch)	
10	SILT to CLAYEY SILT to SANDY SILT, very fine-grained.						Casing (2-inch ID, Schedule 40 PVC)	
15						SW		
20								
	SANDY SILT, silty sand minor, lose clayey silt but maintain trace clay.						Bentonite Grout (Approximately 40 gallons)	
25								
	Slight chatter and hard drilling.							
30	GRAVELLY SAND. Cuttings still SILTY SAND to SANDY SILT.							

LEGEND

SW Static groundwater level on 2/28/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/28/02

Drilling Completed: 2/28/02

Logged By: C. Bartlett

110135MW14.DRW

AMEC 0395

Elevation Reference: Well Completed: 2/28/02 Boring Method: Hollow Stem Auger
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
30	Very slow drilling.							
35	SILT to SANDY SILT, soft, damp to wet, medium to dark gray, very fine- to fine-grained sand, highly to moderately plastic.							
40	Very slow drilling. Relatively few cuttings returned.							
45	SILT to SANDY SILT, very fine- to fine-grained sand.							
50	Very slow, hard drilling.							
55	Total depth = 55.0 feet.							

PROJECT NUMBER: 1-61M-10135-C T2

LEGEND

▼ Static groundwater level
 SW on 2/28/02

Cadet Manufacturing
 Vancouver, Washington

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 Portland, Oregon 97224
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Elevation Reference:		Well Completed: 2/27/02		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 6.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0							
5	Average GRAVEL (slough only).		NR	6			
10	CLAYEY SILT to SANDY SILT, medium stiff, damp, light to medium brown, mottled, intermittently, organic material at top.			12	1.1		
15	SANDY SILT to SILTY SAND, stiff/medium dense, damp, medium brown, slightly mottled, homogeneous, very fine- to fine-grained.			14	1.8	SW	
20	SAND to SILTY SAND, medium dense, wet, medium brown-gray, slightly mottled, homogeneous, very fine- to medium-grained, occasional small pockets of silt.			19	1.7		
25	SAND, dense, wet, dark brown-gray (basalt), colorful (quartz), homogeneous, fine- to very coarse-grained, trace fine gravel, minor silt (enough to turn water turbid). Predominantly basalt, minor red, white, and yellow quartz.			40	2.3		
30							

LEGEND

2.0-inch OD / 3.0-inch OD split- spoon sample with % recovered

NR No sample recovery

Static groundwater level on 2/27/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

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7376 SW Durham Road
Portland, Oregon 97224
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Drilling Started: 2/27/02

Drilling Completed: 2/27/02

Logged By: C. Bartlett

10135MW15.DRW

AMEC 039999

Elevation Reference:		Well Completed: 2/27/02				Boring Method: Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0								
5	Average GRAVEL (slough only).		NR	6				
10	CLAYEY SILT to SANDY SILT, medium stiff, damp, light to medium brown, mottled, intermittently, organic material at top.			12	1.1			
15	SANDY SILT to SILTY SAND, stiff/medium dense, damp, medium brown, slightly mottled, homogeneous, very fine- to fine-grained.			14	1.8	SW		
20	SAND to SILTY SAND, medium dense, wet, medium brown-gray, slightly mottled, homogeneous, very fine- to medium-grained, occasional small pockets of silt.			19	1.7			
25	SAND, dense, wet, dark brown-gray (basalt), colorful (quartz), homogeneous, fine- to very coarse-grained, trace fine gravel, minor silt (enough to turn water turbid). Predominantly basalt, minor red, white, and yellow quartz.			40	2.3			
30								

LEGEND

2.0-Inch OD / 3.0-Inch OD split- spoon sample with % recovered

NR No sample recovery

Static groundwater level on 2/27/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/27/02

Drilling Completed: 2/27/02

Logged By: C. Bartlett

110135MW15.DRW

AMEC 040001

Elevation Reference:		Well Completed: 2/27/02		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 6.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
30	SAND, medium dense, wet, dark gray-brown (basalt), colorful (quartz), fine- to very coarse-grained, 10% fine gravel, trace silt.			30	4.5		
35	Grades to SAND, very coarse-grained, 20-30% fine to coarse gravel, round to subrounded. Water is very slightly silty - mostly very fine-grained sand settles out quickly.			50+	3.5		
40	SAND, medium dense, wet, dark gray (basalt), colorful (quartz), homogeneous, round to subrounded, fine- to very coarse-grained, approximately 10% fine gravel, trace silt. Heaving SANDS.			21	3.0		
45	SAND to GRAVELLY SAND, round to subrounded, medium- to very coarse-grained, 30-40% fine to coarse gravel (mostly fine), basalt, some quartz, trace silt. Heaving SANDS.			50+	2.3		
50	SAND to GRAVELLY SAND, very dense, wet, dark gray, round to subrounded, basalt, some quartz, trace silt.			50+	1.8		
55	Total depth = 56.5 feet.			50+	2.3		
60							

LEGEND

- 2.0-inch OD / 3.0-Inch OD split- spoon sample with % recovered
- NR No sample recovery
- Static groundwater level SW on 2/27/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 2/27/02

Drilling Completed: 2/27/02

Logged By: C. Bartlett

110135MW15PG2.DRW

AMEC 0400

Elevation Reference:		Well Completed: 3/1/02		Boring Method: Hollow Stem Auger		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 6.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0							Flush-Mounted Monument Concrete Surface Seal Locking Cap Bentonite Chips (3/8-inch) Casing (2-inch ID, Schedule 40 PVC)
5	SILT, stiff, dry to damp, medium brown, mottled, trace organics, trace clay.			11	2.2		
10	SAND, round to subrounded, very coarse- to coarse-grained, basalt (1.0-inch lens at top). SANDY SILT to SILT, stiff, damp, medium brown, slightly mottled, very fine- to fine-grained, thin zones of clayey silt, trace clay.			13	1.0		
15	SILTY SAND, medium dense, wet, dark gray-brown, well-sorted, very fine- to fine-grained, some silt, trace mica.			16	1.0	SW	
20	SAND, medium dense, wet, dark gray to black (basalt and quartz), round to subrounded, fine- to coarse-grained, one large gravel, interbedded with SILTY SAND, medium dense, wet, dark gray-brown, very fine- to fine-grained, silt. Grades to sand in last 0.25-0.5 feet.			19			10-20 Colorado Silica Sand
25	SAND, dense, wet, dark gray to black, homogeneous, round to subrounded, well-sorted, fine- to medium-grained, basalt, some quartz, trace silt.			35	1.5		Well Screen (2-inch ID, Schedule 40 PVC with 0.010-inch slots Prepack)
30	Grades with approximately 15% coarse- to very coarse-grained SAND. Total depth = 30.0 feet.			50+			Cone-Shaped Silt Sump

LEGEND

 2.0-inch OD / 3.0-inch OD split-spoon sample with % recovered

 Static groundwater level on 3/1/02

PROJECT NUMBER: 1-61M-10135-C T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/1/02

Drilling Completed: 3/1/02

Logged By: C. Bartlett

110135MW16.DRW

AMEC 040003

Elevation Reference:	Well Completed: 7/13/02	Boring Method: Air Rotary - 6.0" TUBEX w/Precussion Button Bit Borehole Diameter: 6.0"
Relative Ground Surface Elevation:	Relative Casing Elevation:	

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	4.0-inch concrete slab. Base course crushed rock FILL with silt.						Flush-Mounted Monument		
							Concrete Surface Seal		
	Easy drilling.						Locking Cap		
5							Bentonite Grout (30% Solids, Mud Weight = 10.2 lbs/gal, 250 Gallons)		
	Slightly harder drilling at 7.0-9.0 feet.						Casing (2-inch OD, Schedule 40 PVC)		
10									
	SANDY SILT (ML), soft, dry, medium to dark grayish brown, very fine- to fine-grained sand, rounded to subrounded, trace mica.				0.0				
15									
	Relatively slow drilling.								
20					1.6				
	Damp.								
	SAND (SP), loose, wet to saturated, gray-brown, fine- to medium-grained, poorly graded, trace silt.								
25									
	GRAVELLY SAND (SP/GP), fine-grained, encountered at 25.5 feet. Water production approximately 0.5 gpm.				0.3				
30									

LEGEND

- Encountered groundwater level WD while drilling
- Static groundwater level SW on 7/13/02
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

* Lithology logged by drill character and return cuttings from cyclone.

PROJECT NUMBER: 2-61M-10135-N T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference:		Well Completed: 7/13/02				Boring Method: Air Rotary - 6.0" TUBEX w/Precussion Button Bit		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	GRAVELLY SAND (SP/GP), dense, saturated, gray-brown, predominantly medium-grained sand and fine gravel, poorly graded, subrounded.						Bentonite Grout (30% Solids, Mud Weight = 10.2 lbs/gal, 250 Gallons)	
35					0.0			
	Transition to SANDY GRAVEL, gravel content increases. Water production increases to approximately 2.0-3.0 gpm.						Casing (2-inch OD, Schedule 40 PVC)	
40	Water production approximately 5.0 gpm.							
45								
50								
55	Water production approximately 5.0-10.0 gpm. Drill rate approximately 1.0 foot/0.5 minute. SANDY GRAVEL.							
60					0.0			

LEGEND

-  Encountered groundwater level while drilling (WD)
-  Static groundwater level on 7/13/02 (SW)
-  Groundwater Analysis (Test Method Shown)
-  Soil Analysis (Test Method Shown)

* Lithology logged by drill character and return cuttings from cyclone.

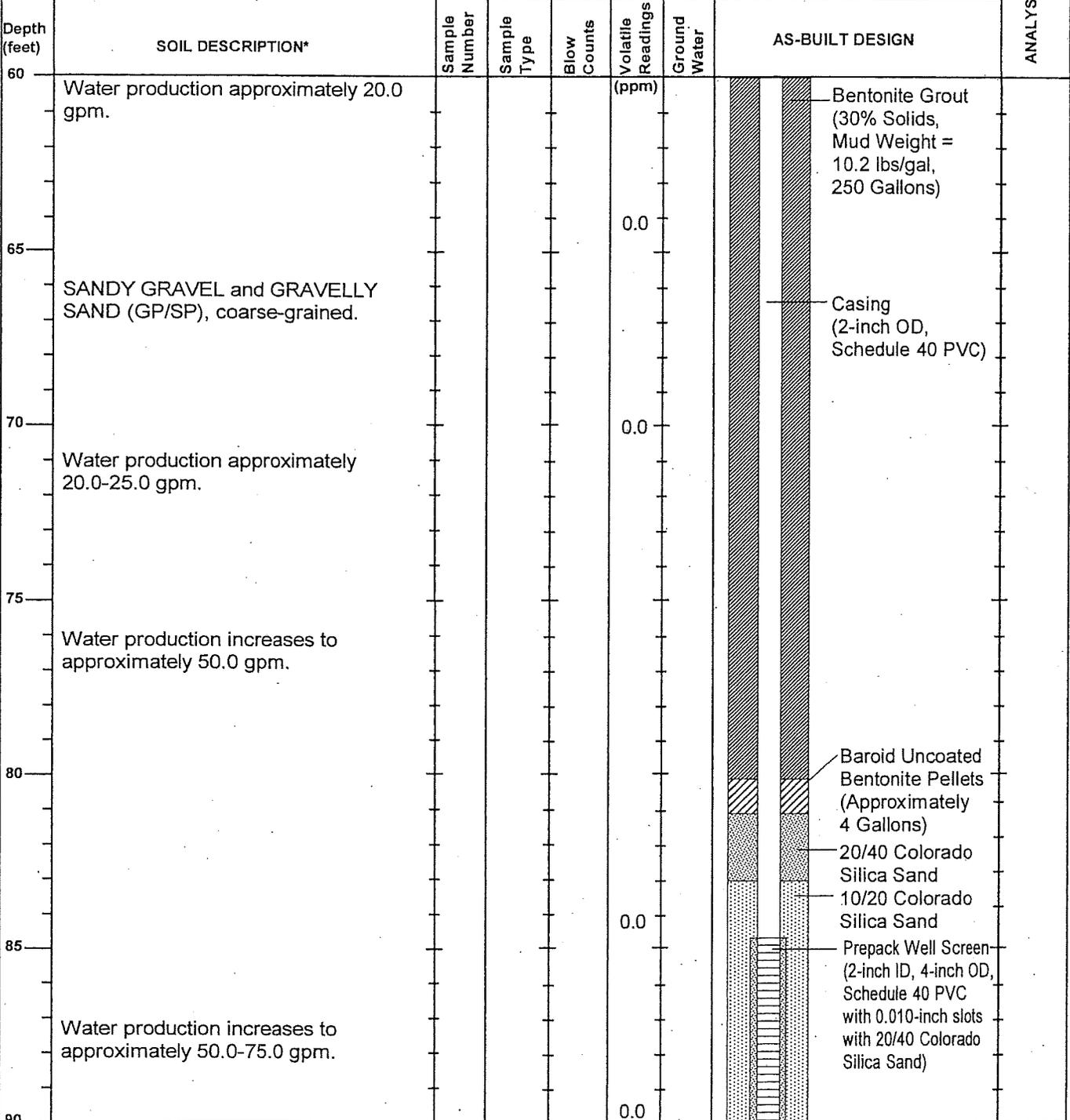
PROJECT NUMBER: 2-61M-10135-N T2

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Vancouver, Washington

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Elevation Reference: Well Completed: 7/13/02 Boring Method: Air Rotary - 6.0" TUBEX w/Precussion Button Bit
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 6.0"



LEGEND

- Encountered groundwater level while drilling (WD)
- Static groundwater level on 7/13/02 (SW)
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

* Lithology logged by drill character and return cuttings from cyclone.

PROJECT NUMBER: 2-61M-10135-N T2

Cadet Manufacturing
 Vancouver, Washington

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7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

110135MW17PG3.DRW

Elevation Reference:		Well Completed: 7/13/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90								
95	Total depth of well = 95.0 feet below ground surface. Let water stabilize to static while leaving bit on bottom. Hole stayed open to 95.0 feet. Trip out rods. Sounded hole = 95.2 feet.							
100								
105								
110								
115								
120								

LEGEND

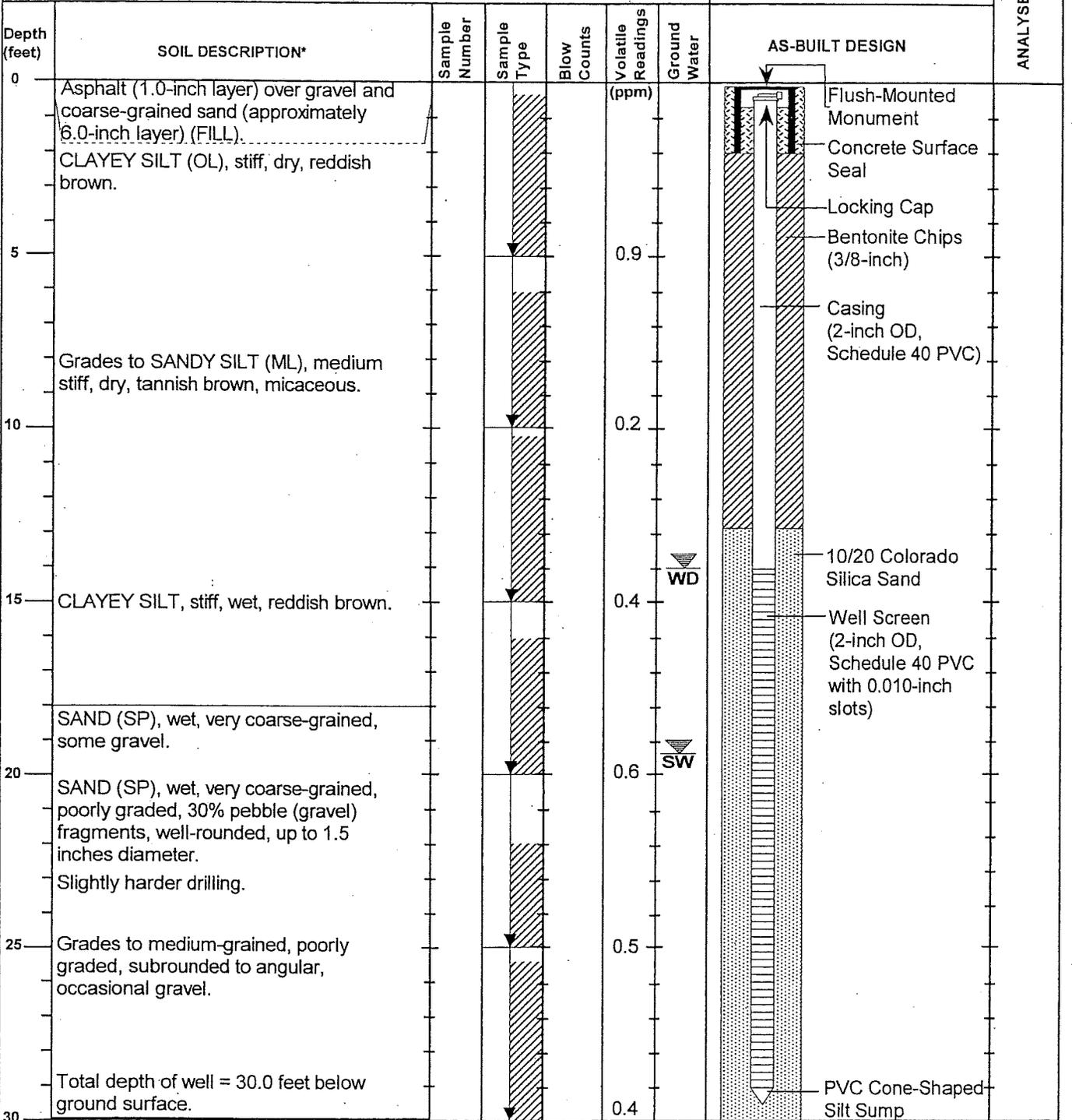
- Encountered groundwater level while drilling
- Static groundwater level on 7/13/02
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)
- * Lithology logged by drill character and return cuttings from cyclone.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference: Well Completed: 7/16/02 Boring Method: Direct Push/
 Relative Ground Surface Elevation: Relative Casing Elevation: Hollow Stem Auger
 Borehole Diameter: 8.0"



LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Encountered groundwater while drilling
- Soil Analysis (Test Method Shown)
- Static groundwater level on 7/15/02

* Used direct push to obtain lithology to 30.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

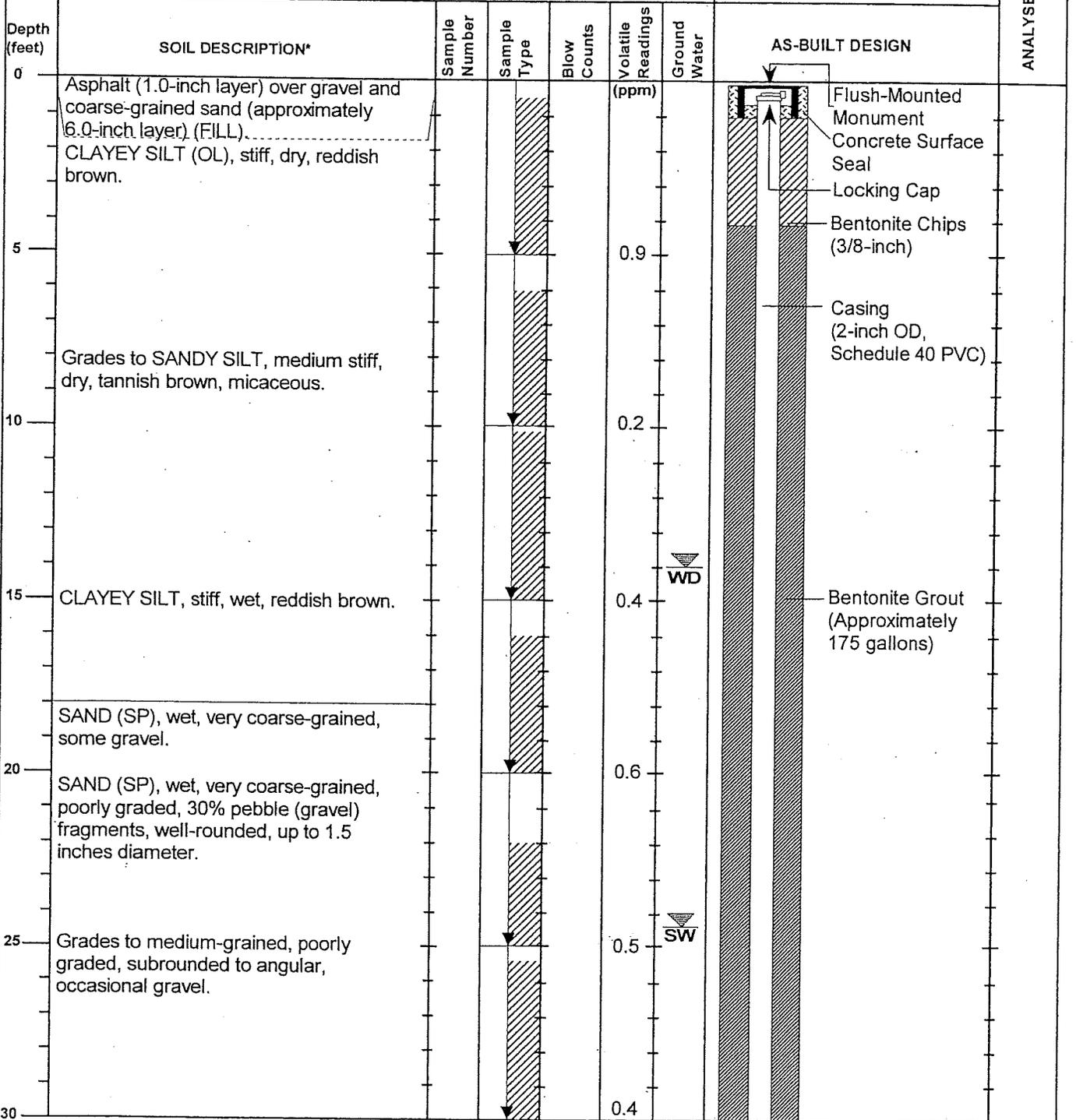
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Drilling Started: 7/15/02

Drilling Completed: 7/16/02

Logged By: K. Finucane/C. Bartlett

Elevation Reference: Well Completed: 7/17/02 Boring Method: Direct Push/
 Relative Ground Surface Elevation: Relative Casing Elevation: Hollow Stem Auger
 Borehole Diameter: 8.0"



LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Encountered groundwater while drilling
- Soil Analysis (Test Method Shown)
- Static groundwater level on 7/15/02

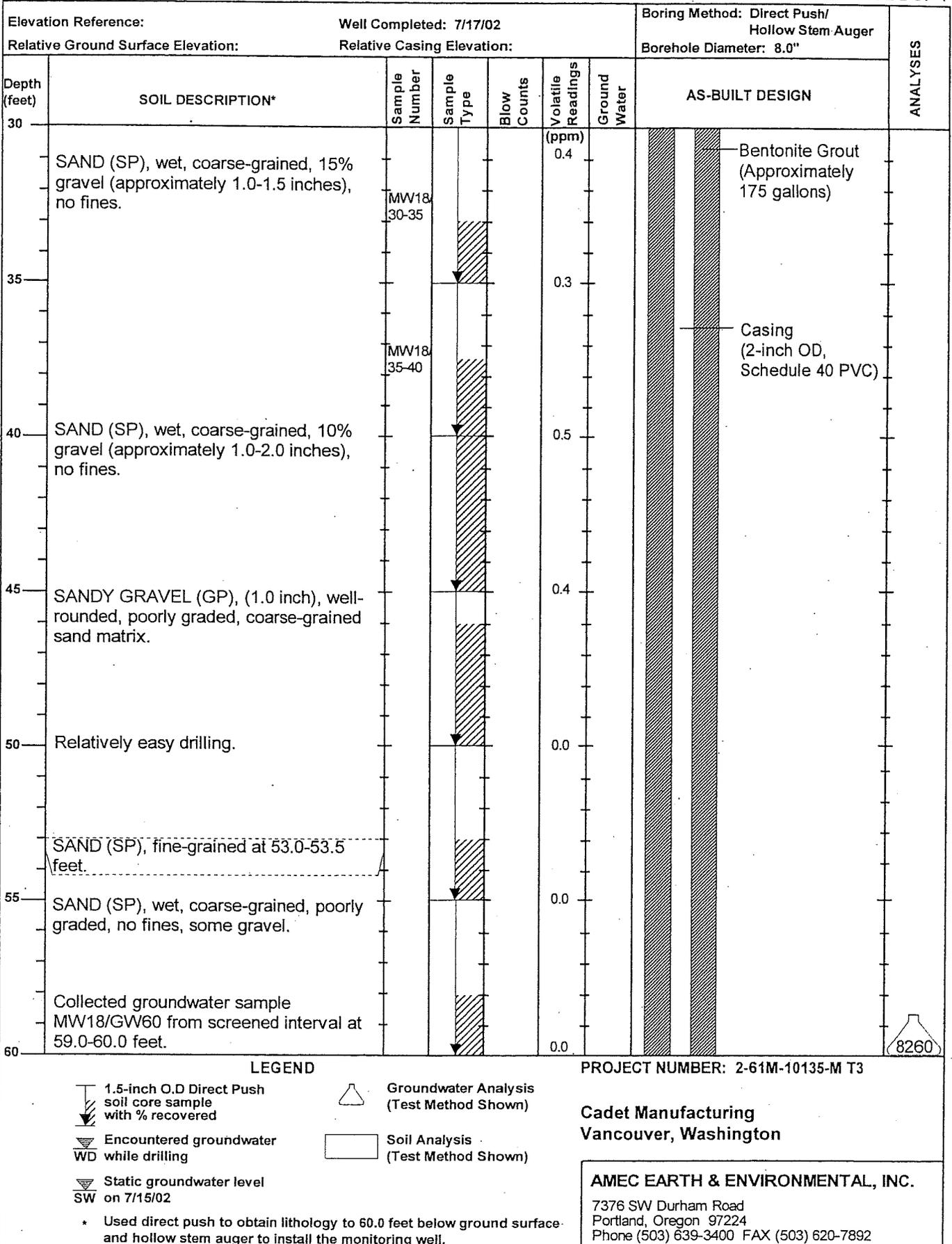
PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.



LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Encountered groundwater while drilling
- Static groundwater level on 7/15/02
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

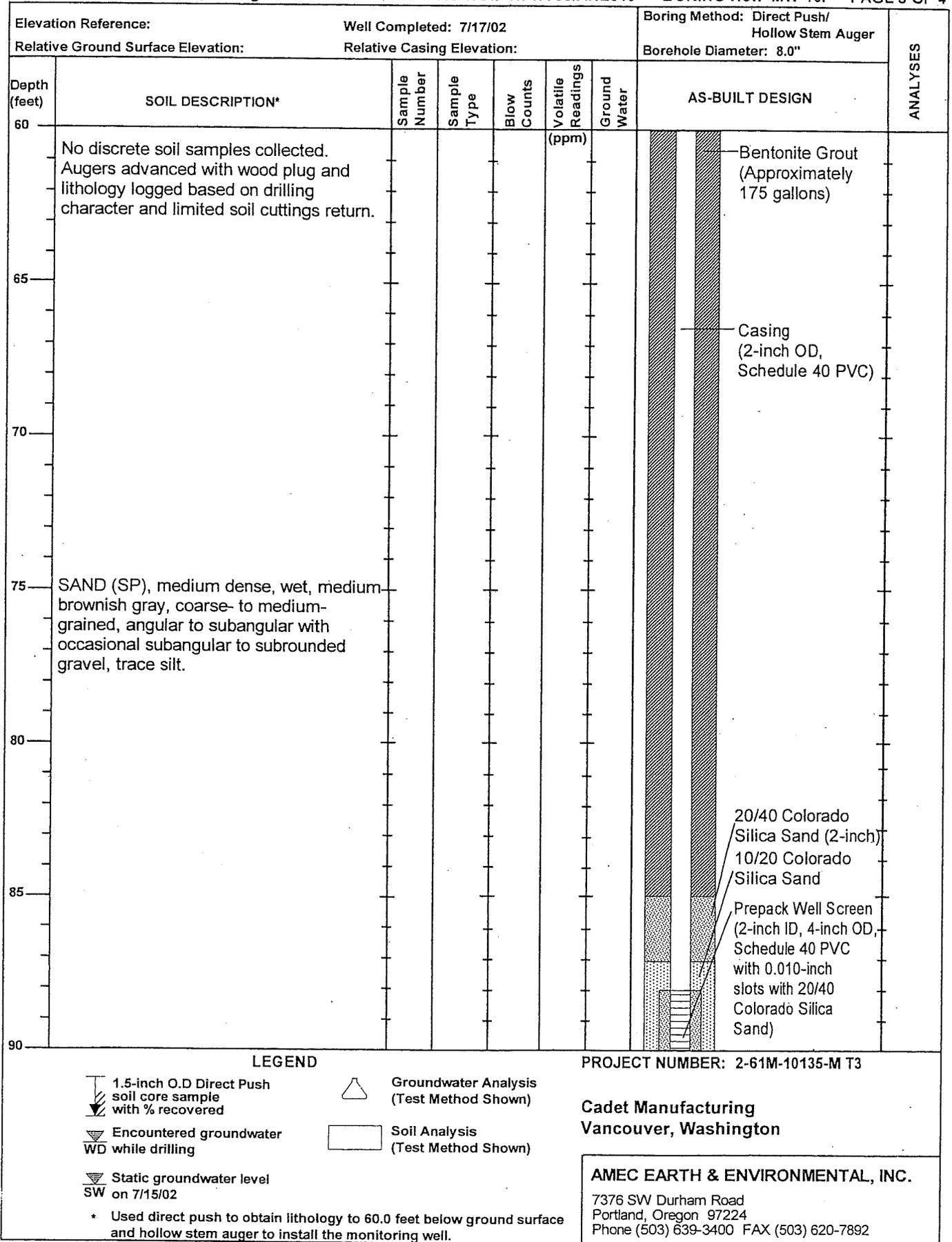
PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.



LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Encountered groundwater WD while drilling
- Static groundwater level SW on 7/15/02

- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference:		Well Completed: 7/17/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90								
95								
100	Total depth of well = 100.0 feet below ground surface.							
105								
110								
115								
120								

LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Encountered groundwater while drilling
- Static groundwater level on 7/15/02

- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

* Used direct push to obtain lithology to 60.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

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7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference: Well Completed: 8/23/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-190.0'
 6.0" 190.0-202.7'

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		ANALYSES
0	ASPHALT street.						Flush-Mounted Monument		
							Concrete Surface Seal		
							Locking Cap		
5	SILT (ML), moist, dark brown, micaceous.						Pea Gravel (4.5 Yards)		
							Casing (2-inch OD, Schedule 80 PVC)		
10									
15									
20	SAND (SP), very coarse-grained, angular to subrounded.								
25	SAND (SP), very coarse-grained with trace (5%) well-rounded gravel (approximately 1.5-inch). Wet.								
30							Bentonite Grout (1,150 Gallons)		

LEGEND

Encountered groundwater level while drilling
 Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0
Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
 7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

110135MW18d.DRW

Elevation Reference: Well Completed: 8/23/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-190.0'
 6.0" 190.0-202.7'

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES	
30							Bentonite Grout (1,150 Gallons) Casing (2-inch OD, Schedule 80 PVC)		
35									
40	GRAVEL (GW), wet, up to 2.0-inch, very coarse, well-graded, rounded to subrounded, mostly mudstone gravel, some quartzite and lithic fragments.								
45									
50	GRAVEL (GW), very coarse, well graded, some very coarse-grained sand layers.								
55	SANDY GRAVEL (GP), wet, mostly black with tan and red, 1/8-inch to 1.5-inch clasts, very coarse-grained, angular to well-rounded, basalt, chert, quartzite, mudstone lithics.								
60									

LEGEND

 Encountered groundwater level while drilling

 Groundwater Analysis (Test Method Shown)

Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

110135\MW18dPG2.DRW

Elevation Reference:		Well Completed: 8/23/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-190.0' 6.0" 190.0-202.7'		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
60	SANDY GRAVEL (GP), wet, mostly black with tan and red (quartzite/chert), 1/8-inch to 1.5-inch clasts, very coarse-grained, angular to well-rounded, basalt, chert, quartzite, mudstone lithics.							
65								
70	Trace clay, very light brown to tan, slick.							
75	SILTY SAND (SP), multicolored (black, red, tan), medium- to coarse-grained, subangular.							
80	Heaving sand conditions.							
85								
90								

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

110135\MW18dPG3.DRW

Elevation Reference: Well Completed: 8/23/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-190.0'
 6.0" 190.0-202.7'

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
90							Bentonite Grout (1,150 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
95								
100	SAND (SP), loose, wet, brown, fine-grained, heaving conditions.							
105								
110								
115								
120								

LEGEND

-  Encountered groundwater level while drilling
-  Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
 7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

110135MW18dPG4.DRW

Elevation Reference:		Well Completed: 8/23/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-190.0' 6.0" 190.0-202.7'		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
120	SAND (SP), loose, wet, brown, fine-grained, heaving conditions.							
125								
130	SANDY GRAVEL (GP), medium dense, wet, brown and black, coarse-grained sand and small gravel.							
135								
140	SAND (SP), loose, wet, brown, fine-grained. No resistance - casing dropped all 10.0 feet.							
145								
150								

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

110135\MW18dPG5.DRW

AMEC 001675

Elevation Reference:	Well Completed: 8/23/02	Boring Method: Air Rotary
Relative Ground Surface Elevation:	Relative Casing Elevation:	Borehole Diameter: 8.0" 0.0-190.0' 6.0" 190.0-202.7'

Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
150	SAND (SP), loose, wet, brown, fine-grained.						Bentonite Grout (1,150 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
155								
160								
165								
170								
175	GRAVEL (GW), dense, wet, black-brown, 3.0-inch plus, rounded to subrounded, well-graded. Lithology includes 60-70% basalt, 30-40% other, no sign of cementation. Increased water production.							
180								

LEGEND

▼ Encountered groundwater level while drilling

△ Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

V10135MW18dPG6.DRW

Elevation Reference:		Well Completed: 8/23/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-190.0' 6.0" 190.0-202.7'		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
180	GRAVEL (GW), dense, wet, black-brown, 3.0-inch to 4.0-inch, rounded to subrounded, well-graded. Lithology includes 60-70% basalt, 30-40% other, no sign of cementation. Increased water production.							
185								
190	Switched to 6.0-inch casing.							
195								
200	Troutdale Formation, (TGA), cemented. Reduction in water. Open hole, 3.0 feet, not caving.							
205	Total depth = 202.7 feet below ground surface.							
210								

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

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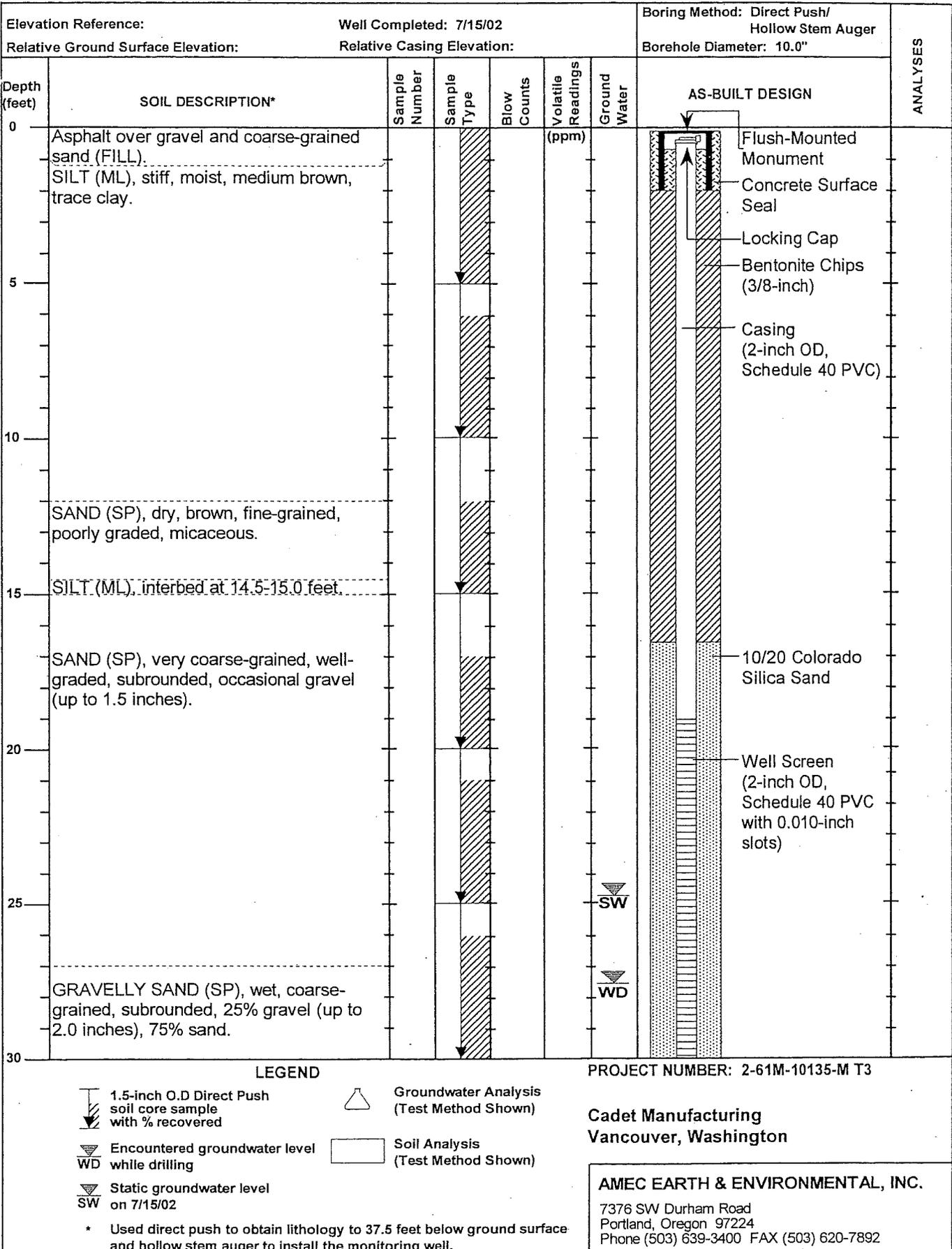
Drilling Started: 8/19/02

Drilling Completed: 8/23/02

Logged By: K. Finucane/B. Lary

110135MW18dPG8.DRW

AMEC 001677



Drilling Started: 7/15/02

Drilling Completed: 7/15/02

Logged By: K. Finucane/S. Bourcy

V10135MW19s.DRW

Elevation Reference:		Well Completed: 7/15/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 10.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Increasing GRAVEL.							
35								
	Total depth of well = 37.5 feet below ground surface.	MW19s/ 35- 37.5						
40								
45								
50								
55								
60								

LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Encountered groundwater level while drilling
- Soil Analysis (Test Method Shown)
- Static groundwater level on 7/15/02

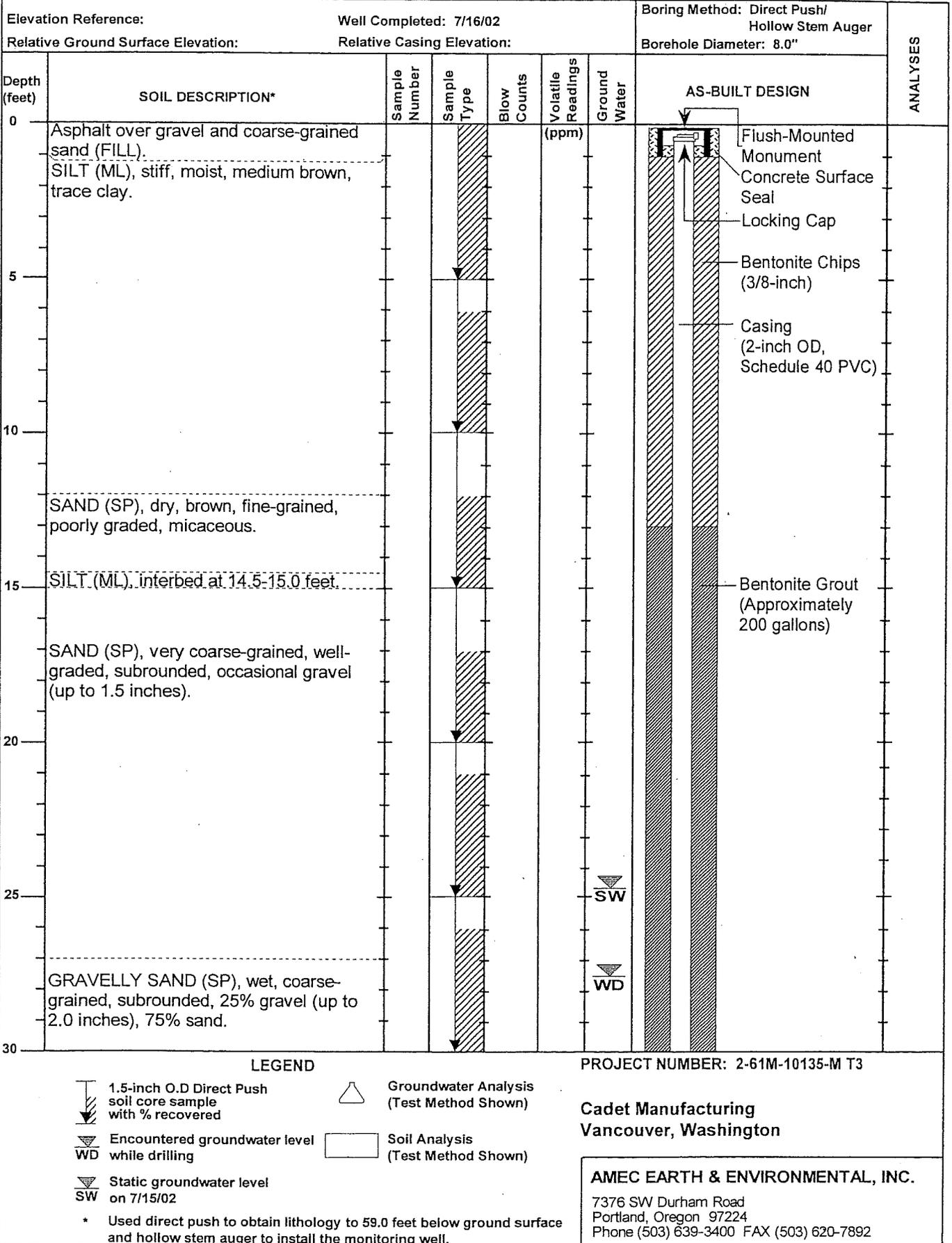
* Used direct push to obtain lithology to 37.5 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

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7376 SW Durham Road
Portland, Oregon 97224
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Drilling Started: 7/15/02

Drilling Completed: 7/16/02

Logged By: K. Finucane/C. Bartlett

110135MW19i.DRW

* Used direct push to obtain lithology to 59.0 feet below ground surface and hollow stem auger to install the monitoring well.

Elevation Reference:		Well Completed: 7/16/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Increasing GRAVEL.							
35		MW19/30-40					Bentonite Grout (Approximately 200 gallons)	TOC
40	SAND (SP), very coarse-grained, some gravel (approximately 1.0 inch), well-rounded.							
45	SAND, fine-grained at 44.0-44.5 feet. SANDY GRAVEL (GP), (1.0 inch), well-rounded, coarse-grained sand matrix, no silt.							
50	GRAVEL (GP), (0.5-1.5 inches), coarse, poorly graded, coarse-grained sand (0.25 inch) matrix, few to no fines.							
55								
60	Collected groundwater sample MW19/GW59 from screened interval at 55.0-59.0 feet.							8260

LEGEND

-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Encountered groundwater level while drilling
-  Static groundwater level on 7/15/02
-  Groundwater Analysis (Test Method Shown)
-  Soil Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

* Used direct push to obtain lithology to 59.0 feet below ground surface and hollow stem auger to install the monitoring well.

Elevation Reference:		Well Completed: 7/16/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
60	SANDY GRAVEL (GP).						Bentonite Grout (Approximately 200 gallons)	
65	No discrete soil samples collected. Augers advanced with wood plug. Lithology logged based on drilling character.						Casing (2-inch OD, Schedule 40 PVC)	
70								
75								
80							20/40 Colorado Silica Sand	
85	Harder drilling.						10/20 Colorado Silica Sand	
90							Prepack Well Screen (2-inch ID, 4-inch OD, Schedule 40 PVC with 0.010-inch slots with 20/40 Colorado Silica Sand) 84-94	

LEGEND

-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Encountered groundwater level while drilling
-  Static groundwater level on 7/15/02
-  Groundwater Analysis (Test Method Shown)
-  Soil Analysis (Test Method Shown)

* Used direct push to obtain lithology to 59.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

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7376 SW Durham Road
Portland, Oregon 97224
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Elevation Reference:		Well Completed: 7/16/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90								
95								
100	Total depth of well = 100.0 feet below ground surface.							
105								
110								
115								
120								

LEGEND



1.5-inch O.D Direct Push soil core sample with % recovered



Groundwater Analysis (Test Method Shown)



Encountered groundwater level while drilling



Soil Analysis (Test Method Shown)



Static groundwater level on 7/15/02

* Used direct push to obtain lithology to 59.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Elevation Reference: Well Completed: 8/28/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-160.0'
 6.0" 160.0-181.6'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
0	ASPHALT, roadbed.							
0-5	SILT (ML), soft, dry, light brown, micaceous.							
5-20								
20-30	SAND (SP), loose, dry, grayish brown, 1/8-inch to 1/4-inch with 10% 3/4-inch to 1.0-inch gravel, subrounded to angular.							
30								

LEGEND

- Encountered groundwater level while drilling
- Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
 Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

Drilling Started: 8/23/02

Drilling Completed: 8/28/02

Logged By: C. Bartlett/K. Finucane

Elevation Reference:		Well Completed: 8/28/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-181.6'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Wet. Increasing gravel (approximately 40%), up to 1.5-inch.					WD	Bentonite Grout (1,400 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
35	SANDY GRAVEL (GP), loose, moist, white, red, brown, gray, and black, approximately 1/8-inch, well-rounded, large (approximately 1.5-inch), angular, gravel fragments, fragments of various lithology.							
40								
45	GRAVEL layer, 1.0-inch to 1.5-inch, well-rounded. SANDY GRAVEL (GP), wet, coarse-grained, well-rounded pebbles composed of chert, quartzite, mudstone, and basalt.							
50	GRAVEL, up to 3.0-inch.							
55	SANDY GRAVEL (GP), wet, coarse-grained, no cementation.							
60								

LEGEND

WD Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

Drilling Started: 8/23/02

Drilling Completed: 8/28/02

Logged By: C. Bartlett/K. Finucane

110135MW19dPG2.DRW

Elevation Reference:		Well Completed: 8/28/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-181.6'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
60	SANDY GRAVEL (GP), wet, coarse-grained, no cementation.						Bentonite Grout (1,400 Gallons) Casing (2-inch OD, Schedule 80 PVC)	
65								
70	Angular.							
75								
80	Large gravel, well-rounded, no sand.							
85	Angular.							
90								

LEGEND

▼ Encountered groundwater level while drilling
WD

△ Groundwater Analysis (Test Method Shown)

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

PROJECT NUMBER: 2-61M-10135-0

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Vancouver, Washington

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7376 SW Durham Road
Portland, Oregon 97224
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Elevation Reference:		Well Completed: 8/28/02				Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-181.6'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
90							Bentonite Grout (1,400 Gallons)	
95	SAND (SP), medium-grained, poorly graded, occasional gravel. Increased water.						Casing (2-inch OD, Schedule 80 PVC)	
100	Increasing gravel.							
105	GRAVEL (GP), approximately 1.0-inch to 3.0-inch diameter, 100%.							
	SANDY GRAVEL (GP), coarse-grained.							
110	Angular rock fragments.							
115								
120								

LEGEND

▼ Encountered groundwater level while drilling



Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.

7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

Drilling Started: 8/23/02

Drilling Completed: 8/28/02

Logged By: C. Bartlett/K. Finucane

V10135MW19dPG4.DRW

Elevation Reference:		Well Completed: 8/28/02					Boring Method: Air Rotary		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-181.6'		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
120	SANDY GRAVEL (GP), wet, abundant very fine-grained sand, heaving.								
125	SAND (SP), wet, fine-grained, some angular gravel. Appearance of numerous tan clay flakes.								
130	SAND (SP), wet, light brown, very fine- to fine- with some very coarse-grained, coarse to fine, angular gravel, mostly basalt, some (minor) chert (approximately 10%).								
135	SANDY GRAVEL (GP), fine angular chips, (< 1.0-inch) to rounded 1.0-inch to 2.0-inch gravel.								
140									
145									
150									

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
Vancouver, Washington

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

AMEC EARTH & ENVIRONMENTAL, INC.
7376 SW Durham Road
Portland, Oregon 97224
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Elevation Reference:		Well Completed: 8/28/02		Boring Method: Air Rotary		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 8.0" 0.0-160.0' 6.0" 160.0-181.6'			
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
150	SAND, some angular basalt gravel (mostly chips).						Bentonite Grout (1,400 Gallons)
155	SAND (SP), wet, medium brown, very fine- to fine-grained, poorly graded, some to trace angular basalt gravel chips, occasional chert, quartzite, and mudstone (tan clay flakes).						Casing (2-inch OD, Schedule 80 PVC)
160	Switched to 6.0-inch casing. SAND (SP) to SANDY GRAVEL (GP), < 1.0-inch, angular gravel chips, basalt, trace chert and quartzite.						
165	Slightly larger gravel, 1.0-inch to 2.0-inch, angular chips, basalt.						20/40 Colorado Silica Sand
170	SAND (SP), wet, medium brown, very fine- to fine-grained, trace mica and pyrite (mostly basalt). Mudstone, light tan, minor percentage.						Centralizer
175	SANDY GRAVEL to GRAVEL (GP), medium- to very coarse-grained sand, fine to occasional larger (1.0-inch to 2.0-inch) gravel, rounded, abundant angular chips, grading to trace fine- to very fine-grained sand, basalt (90%), chert, quartzite, and other volcanics (10%), minor to very minor cement, oxidation. Increased water production, difficulty advancing casing. (Possibly weathered TGA.)						Prepack Well Screen (2-inch ID, 4-inch OD, Schedule 80 PVC with 0.010-inch slots with 20/40 Colorado Silica Sand)
180							10/20 Colorado Silica Sand
							Cone-Shaped Silt Sump

LEGEND

WD Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

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Vancouver, Washington

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* No soil sampling. Descriptions are based on soil cuttings and drilling character.

Drilling Started: 8/23/02

Drilling Completed: 8/28/02

Logged By: C. Bartlett/K. Finucane

110135MW19dPG6.DRW

Elevation Reference: Well Completed: 8/28/02 Boring Method: Air Rotary
 Relative Ground Surface Elevation: Relative Casing Elevation: Borehole Diameter: 8.0" 0.0-160.0"
 6.0" 160.0-181.6'

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
180	GRAVEL, 0.5-inch to 3.0-inch, round with angular to occasionally subangular, 1.0-inch to 2.0-inch, (abundant very coarse-grained, sand-sized, angular chips), gravel (approximately 15-20%), oxidation, fine- to very fine-grained, sandy cementation, basalt (approximately 75%), chert and quartzite (10%), other volcanics (15%). At 183.0 feet, appear to be at top of TGA. Casing was stopped and water production decreased significantly. Cementation increased and lithologic variability increased at 183.0 feet. Total depth = 183.0 feet below ground surface, casing stopped.							
185								
190								
195								
200								
205								
210								

LEGEND

Encountered groundwater level while drilling

Groundwater Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-0

Cadet Manufacturing
 Vancouver, Washington

* No soil sampling. Descriptions are based on soil cuttings and drilling character.

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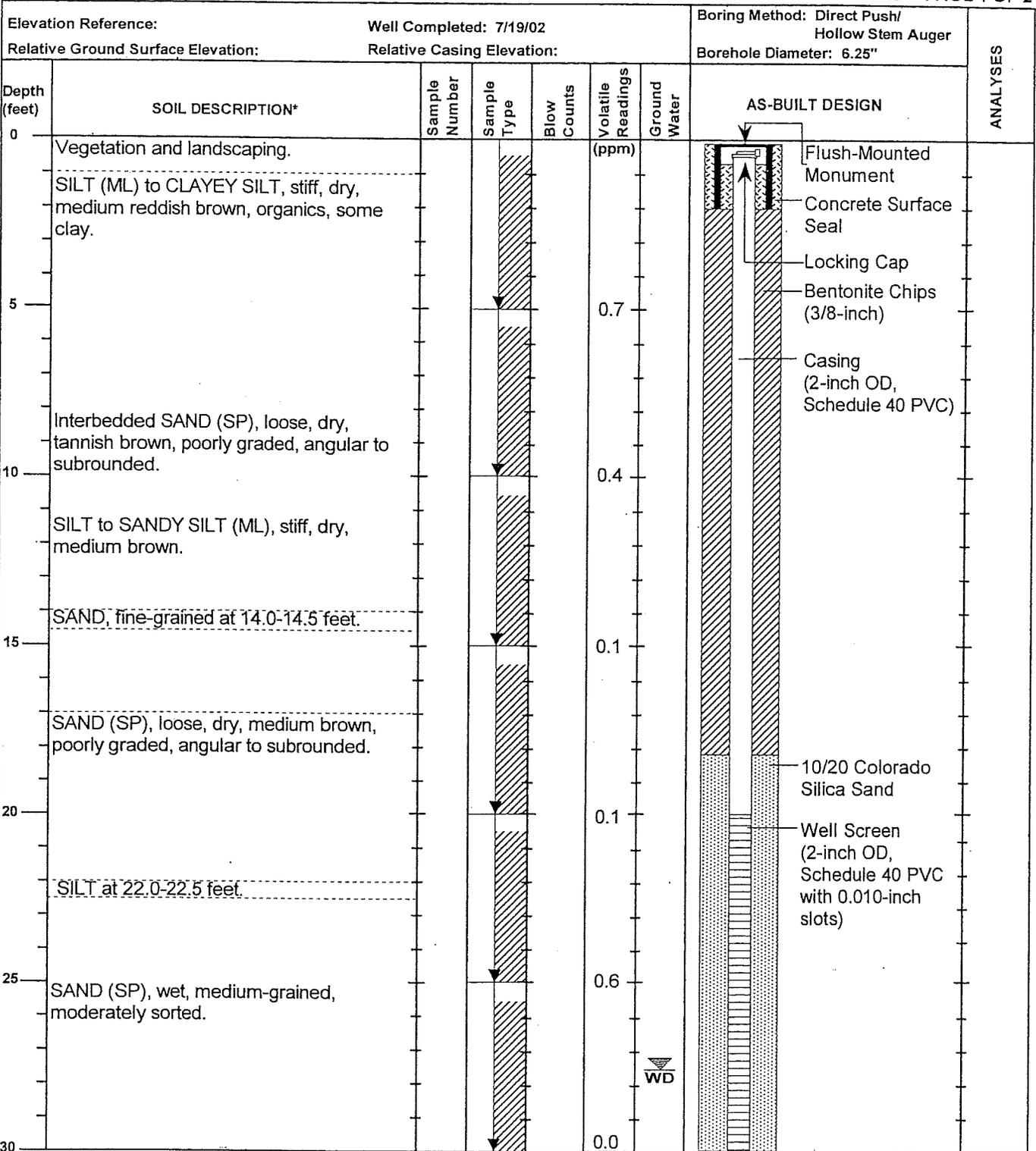
7376 SW Durham Road
 Portland, Oregon 97224
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/23/02

Drilling Completed: 8/28/02

Logged By: C. Bartlett/K. Finucane

110135MW19dPG8.DRW



LEGEND

-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Groundwater Analysis (Test Method Shown)
-  Encountered groundwater level WD while drilling
-  Soil Analysis (Test Method Shown)

* Used direct push to obtain lithology to 35.0 feet below ground surface and hollow stem auger to install the monitoring well.

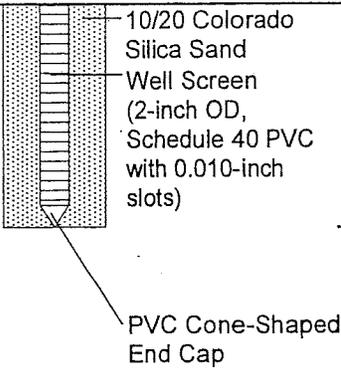
PROJECT NUMBER: 2-61M-10135-M T3

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110135MW20s.DRW

Elevation Reference:		Well Completed: 7/19/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
30	Very easy probing at 31.0 feet (flowing SAND). SAND (SW), wet, coarse-grained, well-graded, gravel (approximately 1.0 inch), no fines.	MW20/30-40			0.0		 <p>10/20 Colorado Silica Sand Well Screen (2-inch OD, Schedule 40 PVC with 0.010-inch slots) PVC Cone-Shaped End Cap</p>	
35								
40								
45								
50								
55								
60								

LEGEND

 1.5-inch O.D Direct Push soil core sample with % recovered

 Groundwater Analysis (Test Method Shown)

 Encountered groundwater level WD while drilling

 Soil Analysis (Test Method Shown)

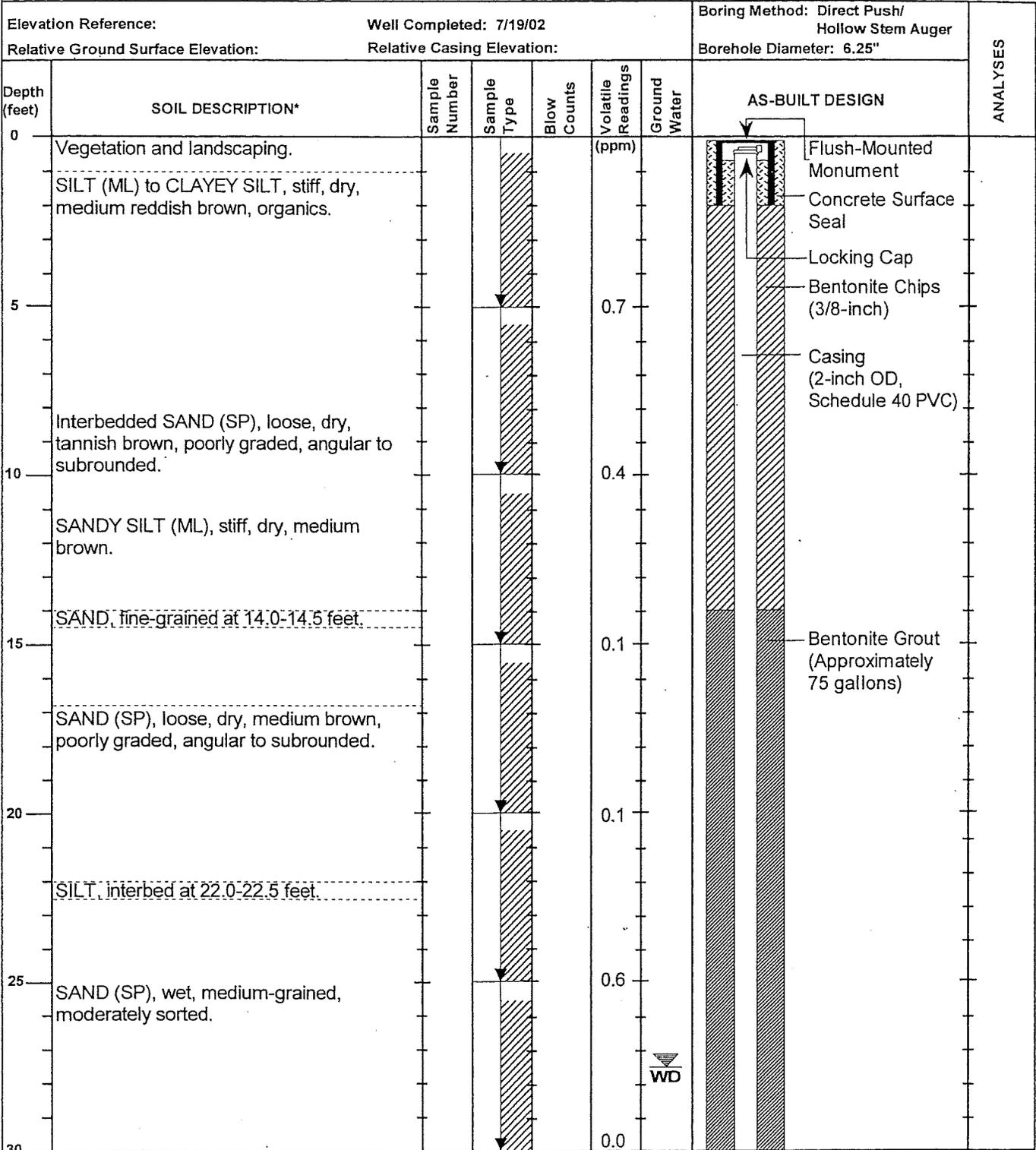
* Used direct push to obtain lithology to 35.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

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LEGEND

-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Groundwater Analysis (Test Method Shown)
-  Encountered groundwater level while drilling
-  Soil Analysis (Test Method Shown)

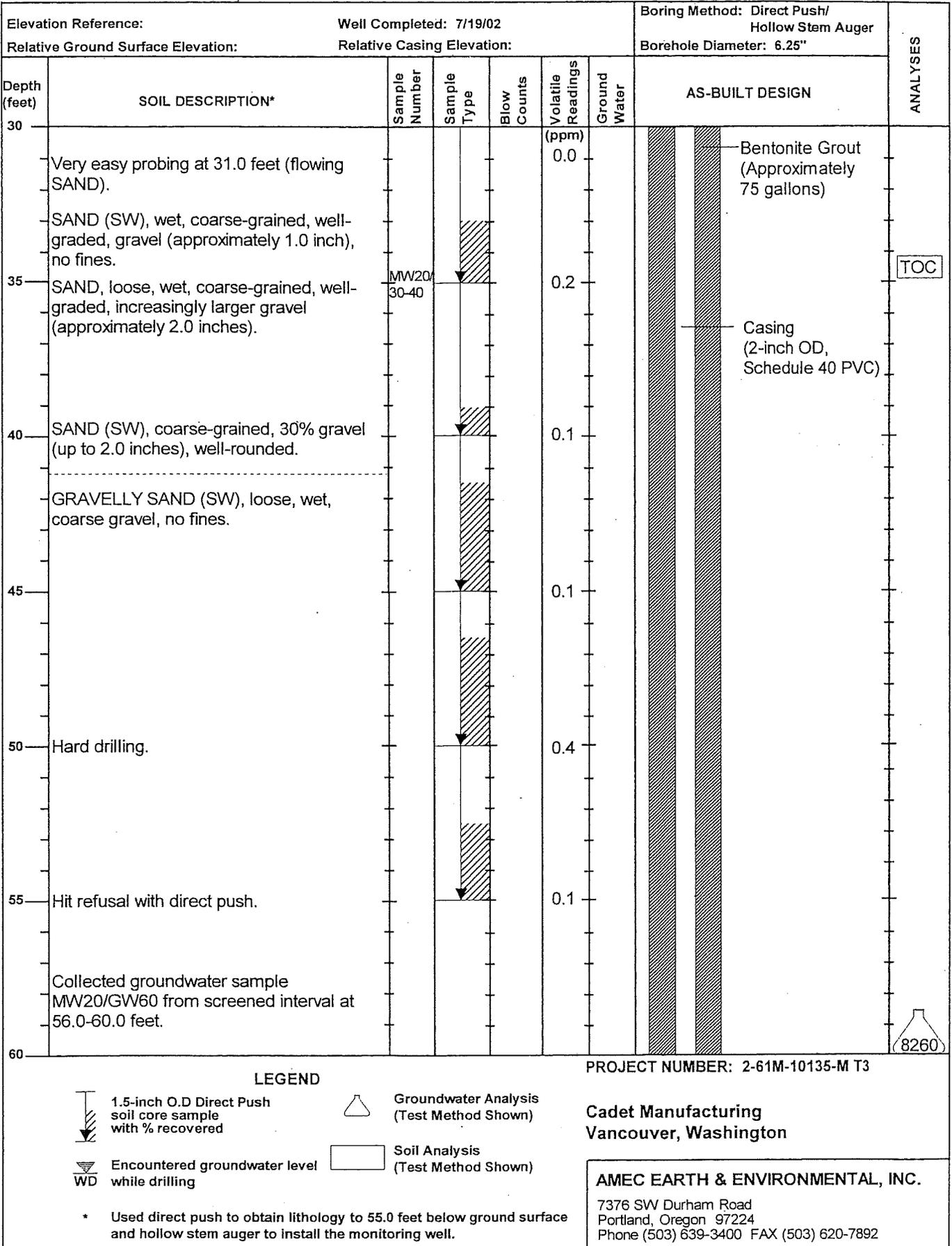
* Used direct push to obtain lithology to 55.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

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LEGEND

-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Groundwater Analysis (Test Method Shown)
-  Encountered groundwater level while drilling
-  Soil Analysis (Test Method Shown)

* Used direct push to obtain lithology to 55.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

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V10135MW20iPG2.DRW

Elevation Reference: Well Completed: 7/19/02 Boring Method: Direct Push/
 Relative Ground Surface Elevation: Relative Casing Elevation: Hollow Stem Auger
 Borehole Diameter: 6.25"

Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	ANALYSES
60	GRAVELLY SAND. No discrete soil samples collected. Augers advanced with wood plug and no cuttings return.							
65	Lithology logged based on drilling character.							
70	SANDY GRAVELS and GRAVELLY SANDS.							
75								
80								
85								
90								

LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)
- Encountered groundwater level while drilling

* Used direct push to obtain lithology to 55.0 feet below ground surface and hollow stem auger to install the monitoring well.

PROJECT NUMBER: 2-61M-10135-M T3

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Elevation Reference:		Well Completed: 7/19/02					Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION*	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
90	SANDY GRAVELS.								
95									
100	Total depth of well = 100.0 feet below ground surface.								
105									
110									
115									
120									

LEGEND



1.5-inch O.D Direct Push soil core sample with % recovered



Groundwater Analysis (Test Method Shown)



Encountered groundwater level while drilling



Soil Analysis (Test Method Shown)

* Used direct push to obtain lithology to 55.0 feet below ground surface and hollow stem auger to install the monitoring well.

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Elevation Reference:		Well Completed: 7/22/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
+5	Preprobed from 0.0-30.0 feet (no sampling). Used Direct Push to obtain lithology. Used Hollow-Stem Auger to install well.							
0	RIP-RAP (FILL), with silt, 4.0-6.0 inch diameter. CLAYEY SILT (ML), medium stiff, moist, mottled brown, low plasticity, micaceous.							
5								
10								
15								
20	Harder probing at 19.5 feet. Possible contact into SAND/GRAVELLY SAND (SP).							
25								

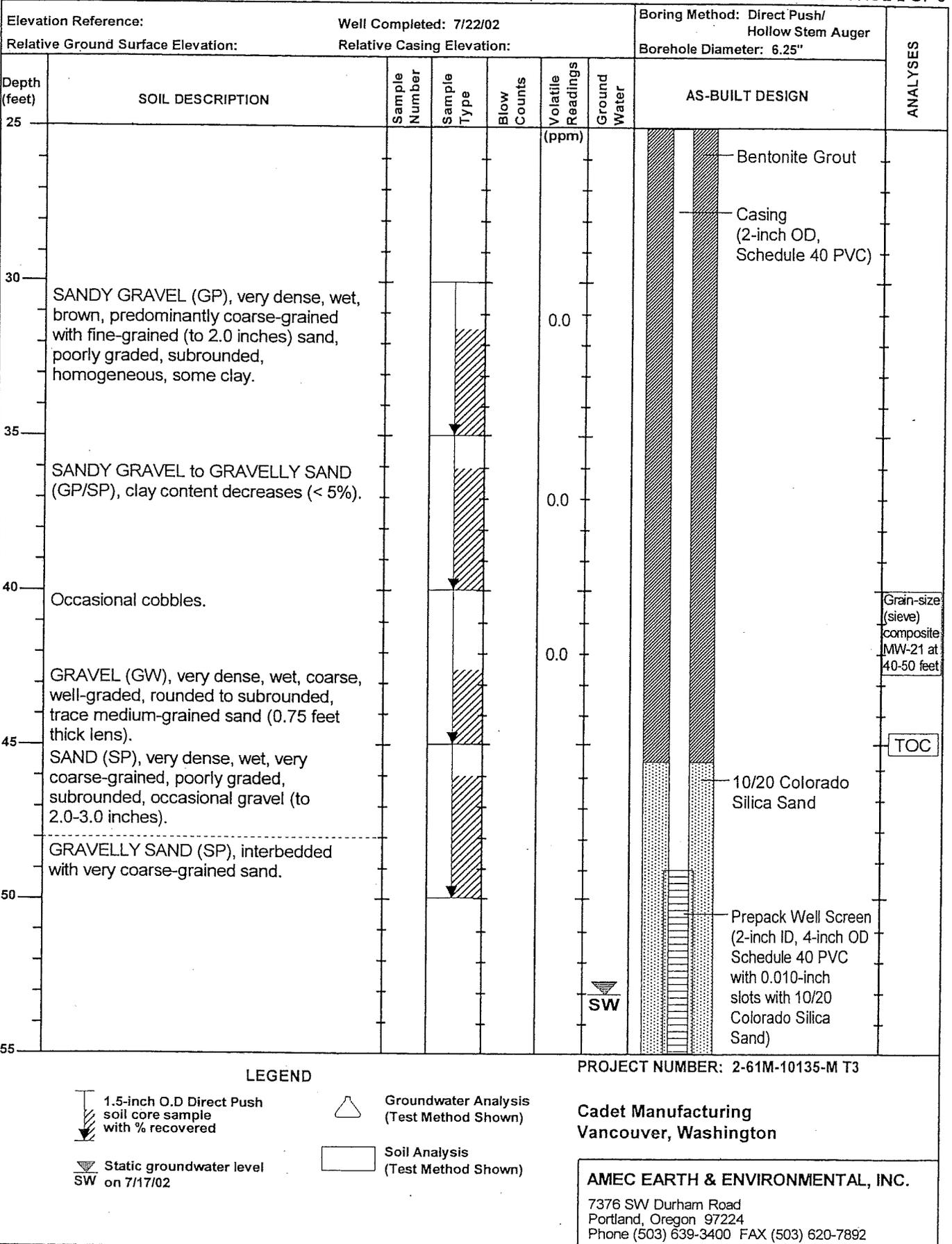
LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Static groundwater level SW on 7/17/02
- Soil Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-M T3

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LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Groundwater Analysis (Test Method Shown)
- Static groundwater level SW on 7/17/02
- Soil Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-M T3

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Elevation Reference:		Well Completed: 7/22/02					Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
55	Increase gravels.								
60	Collected direct push groundwater sample at 60.0 feet below ground surface.							8260	
65	Total depth of well = 64.0 feet below ground surface.							8260	
70									
75									
80									
85									

LEGEND

1.5-inch O.D Direct Push soil core sample with % recovered

Static groundwater level SW on 7/17/02

Groundwater Analysis (Test Method Shown)

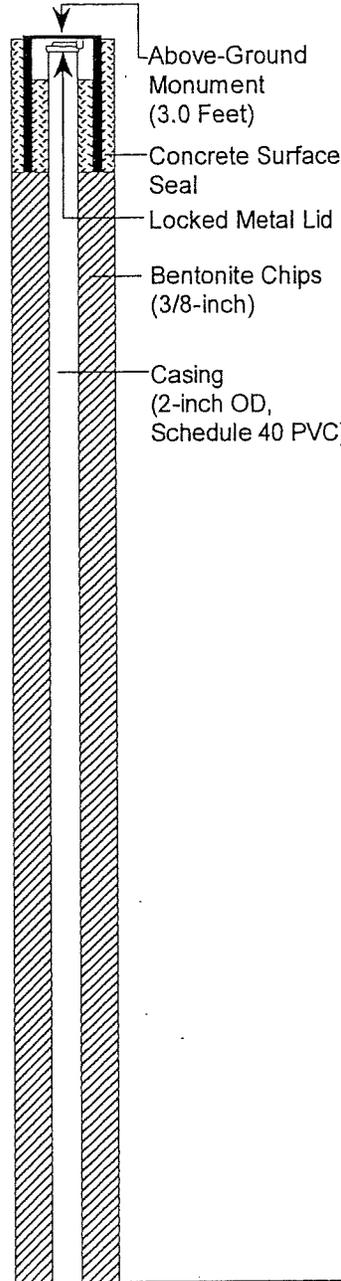
Soil Analysis (Test Method Shown)

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Elevation Reference:		Well Completed: 7/23/02					Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
+5	Preprobed from 0.0-30.0 feet (no sampling). Used Direct Push to obtain lithology. Used Hollow-Stem Auger to install well.								
0	SILTY RIP-RAP (FILL), 4.0-6.0 inch diameter. CLAYEY SILT (ML), medium stiff, moist, mottled brown, low plasticity, micaceous.								
5									
10									
15									
20	Harder probing at 19.5 feet. Possible contact into SAND/GRAVELLY SAND.								
25									

LEGEND

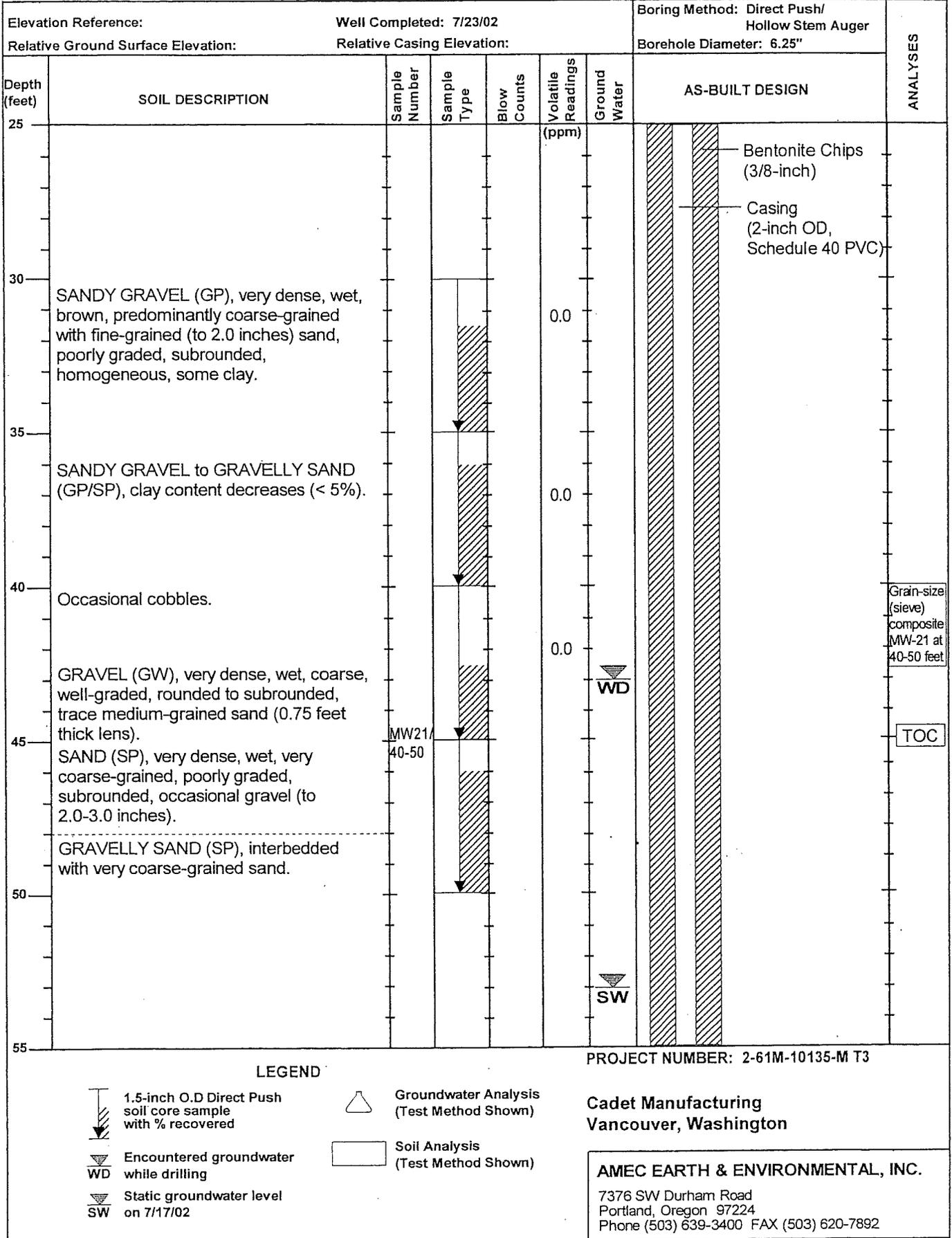
-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Groundwater Analysis (Test Method Shown)
-  Encountered groundwater while drilling
-  Soil Analysis (Test Method Shown)
-  Static groundwater level on 7/17/02

PROJECT NUMBER: 2-61M-10135-M T3

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LEGEND

- 1.5-inch O.D Direct Push soil core sample with % recovered
- Encountered groundwater while drilling
- Static groundwater level on 7/17/02
- Groundwater Analysis (Test Method Shown)
- Soil Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-M T3

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Elevation Reference:		Well Completed: 7/23/02					Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:					Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN		
55	Increase in gravel size and amount.						 <p>Bentonite Grout (Approximately 120 Gallons)</p> <p>Casing (2-inch OD, Schedule 40 PVC)</p>		
60	Collected direct push groundwater sample at 60.0 feet below ground surface. No discrete soil samples collected. Augers advanced with wood plug. Lithology logged based on drilling character and limited soil cuttings.								
65	Rounded to subrounded basalt, 1.0-inch to 4.0-inch diameter with average approximately 1.0-inch.								
70	Interbedded SAND layers. (Easier drilling.)								
75									
80									
85									

PROJECT NUMBER: 2-61M-10135-M T3

LEGEND

 1.5-inch O.D Direct Push soil core sample with % recovered

 Groundwater Analysis (Test Method Shown)

 Encountered groundwater WD while drilling

 Soil Analysis (Test Method Shown)

 Static groundwater level SW on 7/17/02

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Elevation Reference:		Well Completed: 7/23/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
85	Drilling character indicates large GRAVELS to COBBLES with interbedded sand layers 1.0 to 1.5 feet thick.						Bentonite Grout (Approximately 120 Gallons)	
90							Casing (2-inch OD, Schedule 40 PVC)	
95								
100								
105								20/40 Colorado Silica Sand
110							NATIVE BACKFILL	
115							Prepack Well Screen (2-inch ID, 4-inch OD, Schedule 40 PVC with 0.010-inch slots with 20/40 Colorado Silica Sand)	

LEGEND

-  1.5-inch O.D Direct Push soil core sample with % recovered
-  Encountered groundwater while drilling
-  Static groundwater level on 7/17/02
-  Groundwater Analysis (Test Method Shown)
-  Soil Analysis (Test Method Shown)

PROJECT NUMBER: 2-61M-10135-M T3

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Elevation Reference:		Well Completed: 7/23/02				Boring Method: Direct Push/ Hollow Stem Auger		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 6.25"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
115	Very dense - hard drilling.							
120								
125	Total depth of well = 125.0 feet below ground surface.							
130								
135								
140								
145								

LEGEND

1.5-inch O.D Direct Push soil core sample with % recovered

Groundwater Analysis (Test Method Shown)

Encountered groundwater while drilling

Soil Analysis (Test Method Shown)

Static groundwater level on 7/17/02

PROJECT NUMBER: 2-61M-10135-M T3

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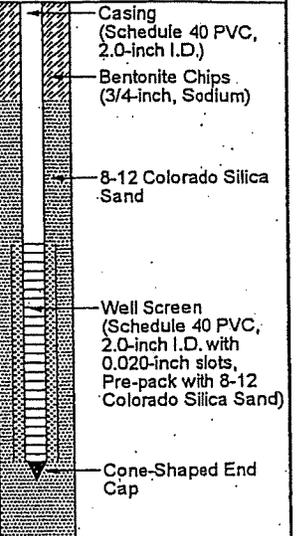
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT 'N' VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by brown, subrounded SILTY GRAVEL FILL (base course); moist						
5			Brown SILT, trace fine sand; moist.						
10			Sand content increases to some.						
15			Becomes SANDY SILT.						
20			Brown, fine to medium SILTY SAND; wet.						
25			GRAVEL. No soil cuttings return.						
30									
BORING METHOD: Hollow Stem Auger			ELEVATION REFERENCE:			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance.			
BOREHOLE DIAMETER: 10.0 (in)			GROUND SURFACE ELEVATION:						
DRILL RIG: Mobile B59			CASING ELEVATION:						
CONTRACTOR: Geo-Tech Explorations			START CARD/TAG ID: R63797						
LOGGED BY: K. Schleh			DRILLING DATES: 6/10/2003 - 6/10/2003						

ENVR-WELL BORING REV2 3-61M-10135-D-T4.GPJ AMEC PORTLAND JUNE03.GDT 12/5/03

Cadet Manufacturing 3-61M-10135-D T4	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING MW-22 PAGE 1 OF 2
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									 <p>Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/4-inch, Sodium) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-Shaped End Cap</p>
35									
40									
45			Total depth = 42.5 feet below ground surface.						
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-D T4 GPJ AMEC PORTLAND JUNE03.GDT 125503

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 10.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: Mobile B59 **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R63797
LOGGED BY: K. Schleh **DRILLING DATES:** 6/10/2003 - 6/10/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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3-61M-10135-D T4

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LOG OF BORING
MW-22
PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
			SILTY SAND.						
5									
10									
15			GRAVEL.						
18			COBBLES.						
20			GRAVEL grading to GRAVEL with some cobbles at 28.0 feet below ground surface.						
25									
30									

ENVR-WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 6.25 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary/L. Glonek

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT865
DRILLING DATES: 11/7/2003 - 11/7/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									
35			SAND.						
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-61M-10135-G T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 6.25 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary/L. Glonek

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT865
DRILLING DATES: 11/7/2003 - 11/7/2003

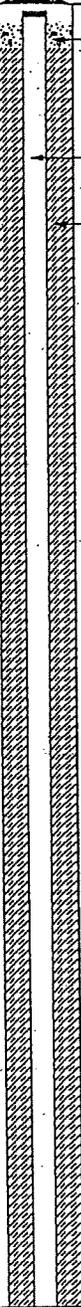
REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing
 3-61M-10135-G T3

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 USA 97224
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LOG OF BORING
MW-23s
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt						 <p>Flush-Mount Monument with Slip Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch, 22 Bags)</p>
0 - 15			Brown SILTY SAND to SANDY SILT; dry.						
15 - 30			GRAVELLY SAND to large SANDY GRAVEL.						

ENVR+WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT885

LOGGED BY: B. Lary **DRILLING DATES:** 11/18/2003 - 11/18/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

<p>Cadet Manufacturing 3-61M-10135-G T3</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p>LOG OF BORING MW-23i PAGE 1 OF 4</p>
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>Bentonite Grout (45 Gallons)</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p>
35									
40									
45									
50			Interbedded SAND layers. Smoother drilling.						
55									

ENVR-WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND_JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT885
DRILLING DATES: 11/18/2003 - 11/18/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing
 3-61M-10135-G T3

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LOG OF BORING
 MW-23i
 PAGE 2 OF 4

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60									
65									
70			GRAVEL to COBBLES.						
75									
80									
85									
90									

ENVR+WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT885
DRILLING DATES: 11/18/2003 - 11/18/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

<p>Cadet Manufacturing 3-61M-10135-G T3</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p>LOG OF BORING MW-23i PAGE 3 OF 4</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90									
95									
100									
105			Total depth = 105.0 feet below ground surface.						
110									
115									
120									

ENVR+WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT885
DRILLING DATES: 11/18/2003 - 11/18/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet Manufacturing 3-61M-10135-G T3	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING MW-23i PAGE 4 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt						Flush-Mount Monument with Slip Cap
5			GRAVELLY SAND.						Concrete
10									Casing (Schedule 40 PVC, 2.0-inch I.D.)
15									Bentonite Chips
20									8-12 Colorado Silica Sand
25			SANDY GRAVEL						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
30									

ENVR-WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

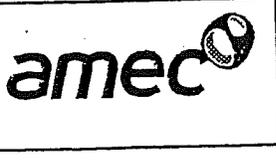
BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 6.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT864
DRILLING DATES: 11/7/2003 - 11/7/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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 3-61M-10135-G T3

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LOG OF BORING
MW-24s
 PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30									<p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)</p> <p>Cone-shaped End Cap</p>
35			GRAVEL (less sand).						
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									

ENVR-WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND.JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 6.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT864

LOGGED BY: B. Lary **DRILLING DATES:** 11/7/2003 - 11/7/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (3/4-inch to 1.0-inch).						<p>Flush-Mount Monument with Locking Cap</p> <p>Concrete</p> <p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch, 24 Bags)</p>
0 to 18			Brown SANDY SILT to SILTY SAND; dry.						
18 to 30			GRAVELLY SAND.						

ENVR-WELL BORING REV2 3-61M-10135-G T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT875

LOGGED BY: B. Lary **DRILLING DATES:** 11/17/2003 - 11/17/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

<p>Cadet Manufacturing</p> <p>3-61M-10135-G T3</p>	<p>AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892</p>		<p>LOG OF BORING MW-24i</p> <p>PAGE 1 OF 4</p>
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT 'N' VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60									
65									
70									
75									
80									
85									

ENVR+WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND_JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION:
CASING ELEVATION:
START CARD/TAG ID: R64579/AHT875
DRILLING DATES: 11/17/2003 - 11/17/2003

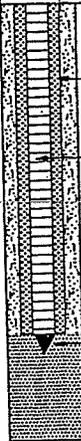
REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
MW-24i

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0									 <p>Pre-pack with 8-12 Colorado Silica Sand)</p> <p>NATIVE (Sand and Gravel)</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
100			Total depth = 100,0 feet below ground surface.						
120									

ENVR-WELL BORING REV2 3-61M-10135-G-T3.GPJ AMEC PORTLAND JUNE03.GDT 12/23/03

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: Mobile B59 **CASING ELEVATION:**

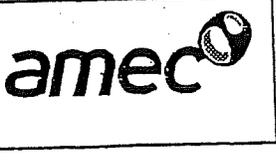
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT875

LOGGED BY: B. Lary **DRILLING DATES:** 11/17/2003 - 11/17/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

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LOG OF BORING
MW-24i
PAGE 4 OF 4

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						<p>Flush-Mount Morris Monument</p> <p>Cement</p> <p>Casing (Schedule 40 PVC, 2.0-inch i.d.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>10-20 Colorado Silica Sand (7.5 bags)</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch i.d. with 0.010-inch slots)</p>
0-5			Brown SANDY SILT to SILTY SAND; dry to moist						
5-15			Few gravels (noted by driller).						
15-20			Rough drilling, sounds like GRAVEL.						
20-25			Very GRAVELLY at 21.0-23.0 feet below ground surface.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Arturo LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: CASING ELEVATION: START CARD/TAG ID: R64586/AHG677 DRILLING DATES: 1/21/2004 - 1/21/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.	

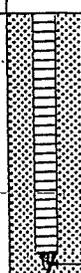
ENVR-WELL_BORING REV2 4-81M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 3/4/04

Cadet Manufacturing, Inc.
4-81M-10135-J.T5

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LOG OF BORING
MW-25s
PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
25			Back into GRAVEL (COBBLES?).						
30			Total depth = 30.0 feet below ground surface.					Cone-Shaped PVC End Cap	
35									
40									
45									
50									

ENVR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 3/4/04

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 12.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations/Arturo **START CARD/TAG ID:** R64586/AHG677
LOGGED BY: B. Lary **DRILLING DATES:** 1/21/2004 - 1/21/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character and resistance.

Cadet Manufacturing, Inc.
 4-61M-10135-J T5

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LOG OF BORING
MW-25s
 PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Soft, brown CLAYEY SILT, micaceous, some fine sand; moist.						Flush-Mount Monument with Locking Cap
5									Concrete
10									Casing (Schedule 40 PVC, 2.0-inch I.D.)
15		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous, some fine to medium sand; moist.						Bentonite Chips (Coarse Wyoming 3/4-inch, 6 Bags)
20									10/20 Colorado Silica Sand (9 Bags)
25		GM	Fine, poorly sorted GRAVEL with fines, some coarse sand; wet.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
30									

PRELIMINARY

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 6/2/04

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:**

DRILL RIG: **CASING ELEVATION:**

CONTRACTOR: Geo-Tech Explorations/Joel **START CARD/TAG ID:** 64952/AKT841

LOGGED BY: J. Hammer, J. Fassio **DRILLING DATES:** 4/29/2004 - 4/29/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

Cadet - Swan
4-61M-10135-L T3

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**LOG OF BORING
MW-26s**
PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30			Total depth = 30.0 feet below ground surface.						 End Cap
35									
40									
45									
50									
55									
60									

PRELIMINARY

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:**
DRILL RIG: **CASING ELEVATION:**
CONTRACTOR: Geo-Tech Explorations/Joel **START CARD/TAG ID:** 64952/AKT841
LOGGED BY: J. Hammer, J. Fassio **DRILLING DATES:** 4/29/2004 - 4/29/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance.

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 6/2/04

Cadet - Swan
4-61M-10135-L T3

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LOG OF BORING
MW-26s
PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Grass and rooty topsoil (6.0-inch layer). Medium stiff, brown SILT.						Flush-Mount Monument with Locking Cap
		ML							Manifold
5			Borehole cleared for utilities with vac. truck from 0.0-8.0 feet below ground surface.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
									Bentonite Chips
10		SM- ML	Gradational change to soft to medium stiff, light brown, fine to very fine SANDY SILT, micaceous; moist.						
20		SP	Soft to medium stiff, medium brown, fine to very fine SANDY SILT to SILTY SAND; wet from 18.5-19.5 feet below ground surface.						
		ML	Loose, light brown, fine to very fine, poorly graded SAND with trace silt, micaceous; moist to wet.						
		SW	Medium stiff, medium brown, slightly plastic CLAYEY SILT; moist to wet.						
			Upper 6.0 inches has some SILTY CLAY matrix then grades into dense, medium gray, coarse to very coarse, well-graded, subangular to rounded GRAVELLY SAND with occasional cobbles (to 4.0-inch diameter); moist.						
25			Gravel content decreasing below 26.0 feet below ground surface.						
		SP	Medium dense, medium gray, medium, poorly sorted SAND; moist.						
30									
BORING METHOD: Sonic BOREHOLE DIAMETER: 6.0 (in) DRILL RIG: Boart Longyear Rotasonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267855/ALB920 DRILLING DATES: 9/13/2004 - 9/13/2004		REMARKS: AMEC 10293			

REV 2 4-61M-10135-U T2 GPJ AMEC PORTLAND JUNE 03 GDT 12/1/04

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SM-GM	Dense to very dense, medium brown, medium to coarse, poorly sorted GRAVELLY SILTY SAND, subrounded gravel (to 3.0-inch diameter); moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips
35		SP	Medium dense, light brown, fine, poorly graded SAND, homogeneous; moist.						
38		SP	Grades to medium to dark gray, medium, poorly graded SAND; moist.						
40		SP-GP	Dense to very dense, medium gray, medium to coarse SANDY GRAVEL to GRAVELLY SAND, trace silt; moist.						
40		GW-SW	Grades to dense, medium to dark gray, medium to very coarse, well-graded SANDY GRAVEL to GRAVELLY SAND; wet at 41.0-42.0 feet below ground surface. Approximately 50% GRAVEL and 50% SAND.						10/20 Colorado Silica Sand 8/12 Colorado Silica Sand
45		SP	Medium to coarse, poorly graded GRAVELLY SAND with trace cobbles (to 5.0-inch diameter); moist. Gravel content decreasing.						Port #3
50		GW	Grades to very dense, medium gray, coarse, well-graded, subrounded to rounded SANDY GRAVEL with occasional cobbles (to 6.0-inch diameter); saturated.						20/40 Colorado Silica Sand
55		GP	Gravel content and size decreasing, becoming poorly graded.						
60		GP	Gravel content and size decreasing, becoming poorly graded.						

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 12/10/04

BORING METHOD: Sonic
BOREHOLE DIAMETER: 6.0 (in)
DRILL RIG: Boart Longyear Rotosonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267855/ALB920
DRILLING DATES: 9/13/2004 - 9/13/2004

REMARKS:

AMEC 10294

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GP	Dense to very dense, medium gray, fine to medium, poorly graded, subrounded to rounded SANDY GRAVEL; saturated.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand</p> <p>10/20 Colorado Silica Sand</p> <p>8/12 Colorado Silica Sand</p> <p>Port #2</p>
65		SP	Transition to coarse SAND with occasional to some fine to coarse gravel.						
70			Dense, medium gray, coarse to very coarse, poorly graded SAND to GRAVELLY SAND with some to trace fine to coarse, subrounded gravel; saturated.						
75			Dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) fine to coarse, subrounded gravel (to 3.0-inch diameter). Very open/clean SAND. Groundwater drains through sand and out of core barrel prior to retrieval of sample.						
80			Small SANDY SILT pod (4.0-inch to 6.0-inch diameter) at 84.0 feet below ground surface. (Flaser bedding or RIP-UP clast.)						
85			Very dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) subrounded cobbles (to 5.0-inch diameter) disseminated throughout, fine gravel; saturated.						
90			Groundwater drains out of sample during retrieval; very open, porous SAND.						

BORING METHOD: Sonic
BOREHOLE DIAMETER: 6.0 (in)
DRILL RIG: Boart Longyear Rotosonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267855/ALB920
DRILLING DATES: 9/13/2004 - 9/13/2004

REMARKS:

AMEC 10295

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ENVR+WELL BORING REV2 4-61M-10135-U T2 GP J AMEC PORTLAND JUNE03 GDT 12/1/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SP							
95			Generated approximately 20 gallons formation water while drilling from 65.0-95.0 feet below ground surface. Coarse GRAVELS and SANDS are open and devoid of fines, so almost all water drains out of core barrel prior to retrieval of sample. Decrease in gravel quantity to approximately 2-5%.						8/12 Colorado Silica Sand Casing (Schedule 40 PVC, 2.0-inch I.D.)
100			Very dense, dark gray, coarse to very coarse, poorly graded SAND with trace gravel and silt; saturated.						
105									
		GW	Medium dense, dark gray, very coarse, well-graded, subrounded to rounded SANDY GRAVEL, trace cobbles; saturated.						
110		SP	Medium dense, dark gray, coarse to very coarse, poorly graded SAND with some subrounded gravel; saturated.						
		SM	Medium dense, brown, fine to medium SILTY SAND with trace medium, subrounded to rounded gravel; saturated.						
115		SP	Grades to gray brown, medium to coarse GRAVELLY SAND; saturated.						
		SP	Grades to gray brown, medium SAND with trace (5%) gravel.						
120									
BORING METHOD: Sonic				ELEVATION REFERENCE:				REMARKS: AMEC 10296	
BOREHOLE DIAMETER: 6.0 (in)				GROUND SURFACE ELEVATION: NA					
DRILL RIG: Boart Longyear Rotosonic				CASING ELEVATION: NA					
CONTRACTOR: Geo-Tech Explorations/Bruce				START CARD/TAG ID: 4267855/ALB920					
LOGGED BY: B. Lary				DRILLING DATES: 9/13/2004 - 9/13/2004					

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 12/1/04

Cadet Manufacturing
4-61M-10135-U T2

AMEC Earth & Environmental, Inc.
7376 SW Durham Road
Portland, Oregon
USA 97224
Tel +1 (503) 639-3400
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LOG OF BORING
MW-27 USA

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC	
120		GP	Dense, medium gray, poorly graded, subangular to subrounded COBBLY GRAVEL with trace (15%) sand and silt, cobbles (up to 6.0-inch diameter); saturated.							
125			Sand and silt content increases to approximately 30%, trace clay.							
130		GM-GC	Dense, brown COBBLY GRAVEL with some sand, trace silt and clay; saturated.							
			Total depth = 129.0 feet below ground surface.							
135										
140										
145										
150										
BORING METHOD: Sonic BOREHOLE DIAMETER: 6.0 (in) DRILL RIG: Boart Longyear Rotosonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267855/ALB920 DRILLING DATES: 9/13/2004 - 9/13/2004			REMARKS: <div style="text-align: right;">AMEC 10297</div>			
Cadet Manufacturing 4-61M-10135-U T2				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 638-3400 Fax +1 (503) 620-7892						LOG OF BORING MW-27 USA PAGE 5 OF 5

EAVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNED03.GDT 12/1/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SM-GM	Dense to very dense, medium brown, medium to coarse, poorly sorted GRAVELLY SILTY SAND, subrounded gravel (to 3.0-inch diameter); moist.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (Approximately 26 Bags)</p> <p>Aquaguard Bentonite Grout</p>
35		SP	Medium dense, light brown, fine, poorly graded SAND, homogeneous; moist.						
		SP	Grades to medium to dark gray, medium, poorly graded SAND; moist.						
40		SP-GP	Dense to very dense, medium gray, medium to coarse SANDY GRAVEL to GRAVELLY SAND, trace silt; moist.						
		GW-SW	Grades to dense, medium to dark gray, medium to very coarse, well-graded SANDY GRAVEL to GRAVELLY SAND; wet at 41.0-42.0 feet below ground surface. Approximately 50% GRAVEL and 50% SAND.				▽		
45		SP	Medium to coarse, poorly graded GRAVELLY SAND with trace cobbles (to 5.0-inch diameter); moist. Gravel content decreasing.						
55		GW	Grades to very dense, medium gray, coarse, well-graded, subrounded to rounded SANDY GRAVEL with occasional cobbles (to 6.0-inch diameter); saturated.						
60		GP	Gravel content and size decreasing, becoming poorly graded.						

ENVR+WELL BORING REVZ 4-61M-10135-U T2 GPJ AMEC PORTLAND JUNE03.GDT 12/1/04

BORING METHOD: Sonic
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Boart Longyear Rotosonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267855/ALB919
DRILLING DATES: 8/23/2004 - 8/23/2004

REMARKS:
Drilled with 8.0-inch casing from 0.0-156.0 feet, then drilled with 6.0-inch casing from 156.0-240.0 feet below ground surface.

AMEC 10299

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GP	Dense to very dense, medium gray, fine to medium, poorly graded, subrounded to rounded SANDY GRAVEL; saturated.						
65		SP	Transition to coarse SAND with occasional to some fine to coarse gravel. Dense, medium gray, coarse to very coarse, poorly graded SAND to GRAVELLY SAND with some to trace fine to coarse, subrounded gravel; saturated.						
70			Dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) fine to coarse, subrounded gravel (to 3.0-inch diameter). Very open/clean SAND. Groundwater drains through sand and out of core barrel prior to retrieval of sample.						
75			Dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) fine to coarse, subrounded gravel (to 3.0-inch diameter). Very open/clean SAND. Groundwater drains through sand and out of core barrel prior to retrieval of sample.						
80			Dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) fine to coarse, subrounded gravel (to 3.0-inch diameter). Very open/clean SAND. Groundwater drains through sand and out of core barrel prior to retrieval of sample.						
85			Small SANDY SILT pod (4.0-inch to 6.0-inch diameter) at 84.0 feet below ground surface. (Flaser bedding or RIP-UP clast). Very dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) subrounded cobbles (to 5.0-inch diameter) disseminated throughout, fine gravel; saturated. Groundwater drains out of sample during retrieval; very open, porous SAND.						
90			Very dense, medium gray, coarse to very coarse, poorly graded GRAVELLY SAND with trace (< 5%) subrounded cobbles (to 5.0-inch diameter) disseminated throughout, fine gravel; saturated. Groundwater drains out of sample during retrieval; very open, porous SAND.						

ENVR+WELL BORING REV2 4-61M-10135-U T2 GPJ AMEC PORTLAND JUNE 03 GDT 12/1/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotosonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267855/ALB919
 DRILLING DATES: 8/23/2004 - 8/23/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-156.0 feet, then drilled with 6.0-inch casing from 156.0-240.0 feet below ground surface.

AMEC 10300

Cadet Manufacturing
 4-61M-10135-U T2

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**LOG OF BORING
 MW-27 TGA**

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SP							<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Aquaguard Bentonite Grout</p>
95			Generated approximately 20 gallons formation water while drilling from 65.0-95.0 feet below ground surface. Coarse GRAVELS and SANDS are open and devoid of fines, so almost all water drains out of core barrel prior to retrieval of sample. Decrease in gravel quantity to approximately 2-5%.						
100			Very dense, dark gray, coarse to very coarse, poorly graded SAND with trace gravel and silt; saturated.						
105									
		GW	Medium dense, dark gray, very coarse, well-graded, subrounded to rounded SANDY GRAVEL, trace cobbles; saturated.						
		SP	Medium dense, dark gray, coarse to very coarse, poorly graded SAND with some subrounded gravel; saturated.						
		SM	Medium dense, brown, fine to medium SILTY SAND with trace medium, subrounded to rounded gravel; saturated.						
110									
		SP	Grades to gray brown, medium to coarse GRAVELLY SAND; saturated.						
		SP	Grades to gray brown, medium SAND with trace (5%) gravel.						
115									
120									
BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Boart Longyear Rotosonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: S. Bourcy				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267855/ALB919 DRILLING DATES: 8/23/2004 - 8/23/2004		REMARKS: Drilled with 8.0-inch casing from 0.0-156.0 feet, then drilled with 6.0-inch casing from 156.0-240.0 feet below ground surface.			
ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNED3.GDT 12/1/04 Cadet Manufacturing 4-61M-10135-U T2				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892				LOG OF BORING MW-27 TGA PAGE 4 OF 8	

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
120		GP	Dense, medium gray, poorly graded, subangular to subrounded COBBLY GRAVEL with trace (15%) sand and silt, cobbles (up to 6.0-inch diameter); saturated.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Aquaguard Bentonite Grout</p>
125		GM-GC	Dense, brown COBBLY GRAVEL with some sand, trace silt and clay; saturated.						
130		GM-GC	Dense, brown and gray, poorly graded GRAVEL with cobbles and 25% clayey silt and sand matrix; saturated. (Weathered TGA, not cemented)						
135		GM-GC	Grades to very dense, gray with brown and tan mottling, poorly graded CLAYEY SILTY GRAVEL with some subrounded to rounded cobbles. Color changes to reddish CLAYEY SILTY GRAVEL. Very dense, gray with brown mottling, poorly graded CLAYEY SILTY GRAVEL with some subrounded to rounded cobbles; moist.						
140		GM-GC	Grades to weakly cemented TGA with brown, fine SAND coating some gravel and cobbles, evidence of light tan weathering rind on some gravel.						
145		GM-GC	Very dense, gray, poorly graded CLAYEY SILTY GRAVEL with some subrounded to rounded cobbles, brown sand layers, light tan weathering rind around some gravel.						
150		GM	Very hard, slow drilling.						
150		GM	Grades into very dense, light orangish brown, medium, poorly graded SANDY GRAVEL and COBBLES (to 4.0-inch to 5.0-inch diameter) with trace silt and clay, weakly to moderately cemented, friable; moist to wet. (Moderately Cemented TGA)						

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ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND, JUNE03.GDT 12/1/04

BORING METHOD: Sonic ELEVATION REFERENCE:
BOREHOLE DIAMETER: 8.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: Boart Longyear Rotasonic CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Bruce START CARD/TAG ID: 4267855/ALB919
LOGGED BY: S. Bourcy DRILLING DATES: 8/23/2004 - 8/23/2004

REMARKS:
Drilled with 8.0-inch casing from 0.0-156.0 feet, then drilled with 6.0-inch casing from 156.0-240.0 feet below ground surface.

AMEC 10302

Cadet Manufacturing 4-61M-10135-U T2	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING MW-27 TGA
			PAGE 5 OF 8

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
150		GM	Approximately 10-20% terrestrial gravel and cobbles consisting of quartzite and diorite. Terrestrial GRAVEL and COBBLES (quartzite) increase to approximately 20-30%.						<ul style="list-style-type: none"> — Casing (Schedule 40 PVC, 2.0-inch I.D.) — Aquaguard Bentonite Grout — Bentonite Chips (3/8-inch) — 20/40 Colorado Silica Sand (1 Bag) — 10/20 Colorado Silica Sand (4 Bags) — Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.010-inch slots) — Cone-shaped End Cap
155		GM-GC	Clay content increases. Very hard drilling.						
160		GM-GC	Very dense, gray to orange-brown, coarse GRAVEL and COBBLES with trace to some silt and clay, fine to medium sand, weakly to moderately cemented; wet to saturated. Approximately 50% matrix - 50% subrounded to rounded clasts (to 5.0-inch diameter). (TGA) 30-40% Terrestrial gravel and cobbles (quartzite, granite, granodiorite).						
165			Cementation becomes weak, matrix mostly fine sand with some clay and silt, approximately 30-40% thin cementation (sand) on outside of some clasts, 40% exotic quartzite clasts, 60% volcanic origin.						
170			Increase in clay/silt content; becomes saturated at 170.0-172.0 feet below ground surface.						
175			Less evidence of cementation on gravel. Clay and silt content in matrix increases with some fine sand in nodules; wet.						
180									

ENVR-WELL BORING REV2 4-61M-10135-U T2.GPJ AMEC PORTLAND JUNE03.GDT 12/1/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotasonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: S. Bourcy

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267855/ALB919
 DRILLING DATES: 8/23/2004 - 8/23/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-156.0 feet, then drilled with 6.0-inch casing from 156.0-240.0 feet below ground surface.

AMEC 10303

Cadet Manufacturing 4-61M-10135-U T2	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING MW-27 TGA PAGE 6 OF 8
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC		
180		GM-GC									
185		GM	Water production increases; saturated. Very dense, gray, fine 60% to coarse 40%, well-graded, rounded to subangular GRAVEL with some sand and silt, < 2% cobbles, 30% exotic clasts (quartzite, granite, chert), 70% volcanics, some gravel layers with silt, clay, and fine sand matrix; saturated. General decrease in fines.								
190		GC	Very dense, gray and reddish gray, fine to coarse, well-graded, rounded to subangular SILTY GRAVEL with some clay and fine to medium sand and trace cobbles; wet. Gravel is matrix supported, 25-30% sand, 30-35% clay/silt, 45% gravel. Increase in percentage of clasts with cementation coating to 50-60% at 193.0-195.0 feet below ground surface.								
195			Very hard drilling.								
200		GM-GC	Very dense, gray, fine to coarse, well-graded, rounded to subrounded GRAVEL with some sand and trace silt and clay, clast supported, 15% silt/clay, 20% sand, 65% gravel. Very dense, mottled gray and yellowish gray, fine to coarse, well-graded, rounded to subrounded SILTY GRAVEL with some fine sand and clay, trace cobbles; wet. GRAVEL is matrix supported, 30% silt/clay, 15-20% sand, 50-55% gravel, decrease in percentage of clasts with cement coating to approximately 5-10%, 10-15% of clasts of exotic origin, 85% volcanics.								
205		SW	Very dense, gray, fine to medium, well-graded GRAVELLY SAND, 25-30% gravel, 70-75% sand; wet.								
210		GM-GC	Very dense, gray, rounded to subrounded GRAVEL with some silt and sand, trace clay; saturated. Very dense, dark gray mottled with reddish brown, fine to coarse, rounded to subrounded SILTY GRAVEL with some fine sand and clay; wet. Gravel is matrix supported, 50% gravel, 25% silt/clay, 25% fine sand.								
BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Boart Longyear Rotosonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: S. Bourcy					ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267855/ALB919 DRILLING DATES: 8/23/2004 - 8/23/2004						
					REMARKS: Drilled with 8.0-inch casing from 0.0-156.0 feet, then drilled with 6.0-inch casing from 156.0-240.0 feet below ground surface.						
					AMEC 10304						
Cadet Manufacturing 4-61M-10135-U T2				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						LOG OF BORING MW-27 TGA PAGE 7 OF 8	

ENVR+WELL_BORING REV2 4-61M-10135-U T2.GPJ AMEC PORTLAND_JUNE03.GDT 12/1/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
0 - 18		ML	Air knife - no sample. Loose, light brown SILT with some sand; dry.						
18 - 21		SM	Grades to soft/loose, brown SANDY SILT to SILTY SAND, micaceous; moist.						
21 - 24		SW	Loose, brown, fine SILTY SAND, micaceous; moist.						
24 - 30		SW	Loose, dark brown, well-graded SAND with trace silt and fine gravel; moist. Trace larger gravel and less silt.						

ENVR+WELL BORING REV2 4-61M-10135-U T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Boart Longyear Rotasonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: J. Hammer

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267876/ALB922
DRILLING DATES: 10/5/2004 - 10/5/2004

REMARKS:

AMEC 10306

Cadet Manufacturing
4-61M-10135-U T2

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**LOG OF BORING
MW-28 USA**

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW	No silt.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (38 Bags)</p> <p>10/20 Colorado Silica Sand (1 Bag)</p> <p>8/12 Colorado Silica Sand (2 Bags)</p> <p>Port #3</p> <p>20/40 Colorado Silica Sand (17 Bags)</p>
35		SP	Loose, brown, medium, poorly graded SAND, micaceous; saturated.						
35		SP	Loose, dark brown to black, medium SAND with some fine and coarse gravel; saturated.						
40			Cobble (approximately 4.0-inch diameter).						
40			Trace silt.						
40			Loose, dark brown to gray, medium, poorly graded SAND with some rounded to subrounded gravel (average 1.0-inch diameter); wet.						
45			Fewer gravel.						
50		SW	Loose, dark brown to gray, well-graded GRAVELLY SAND, subrounded to rounded gravel; wet.						
50		GW	Loose, dark gray, subrounded to subangular, well-graded SANDY GRAVEL; wet.						
55		GP	Loose, dark gray, medium to coarse, subrounded to rounded GRAVEL with trace sand and cobbles; wet.						

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 11/29/04

BORING METHOD: Sonic
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Boart Longyear Rotasonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: J. Hammer

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267876/ALB922
DRILLING DATES: 10/5/2004 - 10/5/2004

REMARKS:

AMEC 10307

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GP	Loose, dark gray, medium to coarse, subrounded to rounded, poorly graded GRAVEL with trace sand and cobbles; wet.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand (17 Bags)</p>
65		SP	Loose, brown, fine SAND; saturated.						
		SP	Loose, dark brown, medium SAND; saturated.						
70			Grades to medium to coarse SAND with trace fine gravel; saturated.						
75			Grades to loose, dark brown, coarse, poorly graded SAND with some gravel and large cobbles (4.0-inch plus diameter), trace silt; saturated.						
80			Loose, dark brown, coarse SAND with some gravel and trace silt; saturated.						
85		GP	Grades to loose, dark brown, fine GRAVEL with trace cobbles and silt; saturated.						
		SP	Grades to loose, dark brown, medium SAND; saturated.						
		GP	Grades to loose, dark brown, fine SANDY GRAVEL, trace silt; saturated.						
90			Loose, dark brown, coarse SAND with some gravel and trace silt; saturated.						
BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Boart Longyear Rotasonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267876/ALB922 DRILLING DATES: 10/5/2004 - 10/5/2004			REMARKS: <div style="text-align: right; font-weight: bold; font-size: 1.2em;">AMEC 10308</div>		

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GW	Grades to loose, dark brown, subrounded to rounded, well-graded GRAVEL; saturated.						
95		GP	Loose, dark brown, medium, poorly graded GRAVEL; wet.						
100		GW	Loose, dark brown to gray, well-graded GRAVEL with trace silt, cobbles; wet.						
105			Loose to medium dense, dark brown, well-graded GRAVEL with trace cobbles; wet.						
110		GP	Grades to medium dense, dark brown, fine GRAVEL with trace larger gravel (1.0-inch to 2.0-inch diameter), sand; wet.						
115		SP	Loose to medium dense, dark brown, coarse GRAVELLY SAND with trace subangular to subrounded gravel (1.0-inch to 2.0-inch diameter); wet.						

ENVR-WELL BORING REV2 4-61M-10135-U T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotosonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: J. Hammer

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267876/ALB922
 DRILLING DATES: 10/5/2004 - 10/5/2004

REMARKS:

AMEC 10309

Cadet Manufacturing 4-61M-10135-U T2	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING MW-28 USA PAGE 4 OF 6
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
120		SP	Loose to medium dense, dark brown, coarse GRAVELLY SAND with trace gravel (1.0-inch to 2.0-inch diameter); wet. Increase in larger gravel (1.0-inch to 2.0-inch diameter). Grades to medium dense, dark brown SANDY GRAVEL to GRAVELLY SAND with some gravel (1.0-inch to 2.0-inch diameter) and trace cobbles (3.0-inch plus diameter); wet.						<ul style="list-style-type: none"> Port #2 8/12 Colorado Silica Sand (1 Bag) 20/40 Colorado Silica Sand (19 Bags) Casing (Schedule 40 PVC, 2.0-inch I.D.)
125									
130				SILT pod (approximately 2.0 inches thick).					
135		SP	Dense, brown, medium SAND with some subrounded to rounded gravel (1.0-inch to 3.0-inch diameter); wet. Large granite boulder (4.0-inch diameter), weathered with some clay.						
140		GW	Dense, dark brown, subrounded to rounded SANDY GRAVEL with trace silt; wet. Trace clay. Medium dense, brown, medium SAND; wet.						
145		SW	Grades to dense, brown, fine to medium SAND, micaceous, trace angular to subangular gravel (1.0-inch to 2.0-inch diameter); wet. Smaller and fewer gravel. GRAVEL (2.5-inch diameter) with cemented sand and gravel matrix.						
150									
BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Boart Longyear Rotosonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267876/ALB922 DRILLING DATES: 10/5/2004 - 10/5/2004			REMARKS:		
Cadet Manufacturing 4-61M-10135-U T2				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					
							AMEC 10310 LOG OF BORING MW-28 USA PAGE 5 OF 6		

ENVIR-MELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03 GDT 11/29/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
150		SW	Slight increase in gravel (1.0-inch to 2.0-inch diameter).						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand (19 Bags)</p> <p>10/20 Colorado Silica Sand (1 Bag)</p> <p>Port #1</p>
		SP	Igneous COBBLE (6.0-inch diameter). Medium dense, brown, fine to medium SAND, micaceous, trace silt, no gravel; moist to wet.						
155									
160			Medium dense, brown, fine SAND, micaceous; moist to wet.						
165									
170									
175									
180			Total depth = 180.0 feet below ground surface.						
BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Boart Longyear Rotosonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267876/ALB922 DRILLING DATES: 10/5/2004 - 10/5/2004			REMARKS: <p style="text-align: right;">AMEC 10311</p>		
Cadet Manufacturing 4-61M-10135-U T2				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892			<p style="text-align: center;">LOG OF BORING MW-28 USA</p> <p style="text-align: right;">PAGE 6 OF 6</p>		

E:\NVR+WELL BORING REV2 4-61M-10135-U T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						Flush-Mount Monument with Locking Cap
0-1		ML	Air knife - no sample.						Concrete
1-18			Loose, light brown SILT with some sand; dry.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
18-21		SM	Slightly more sand, micaceous. Grades to soft/loose, brown SANDY SILT to SILTY SAND, micaceous; moist.						Bentonite Chips
21-24			Loose, brown, fine SILTY SAND, micaceous; moist.						
24-30		SW	Loose, dark brown, well-graded SAND with trace silt and fine gravel; moist. Trace larger gravel and less silt.						

ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotosonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267875/ALB921
 DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10312

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12' into TGA

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW	No silt.				▽		<p>Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips Bentonite Grout (Approximately 31 Bags)</p>
35		SP	Loose, brown, medium, poorly graded SAND, micaceous; saturated.						
		SP	Loose, dark brown to black, medium SAND with some fine and coarse gravel; saturated. Cobble (approximately 4.0-inch diameter). Trace silt.						
40			Loose, dark brown to gray, medium, poorly graded SAND with some rounded to subrounded gravel (average 1.0-inch diameter); wet. Fewer gravel.						
45									
50		SW	Loose, dark brown to gray, well-graded GRAVELLY SAND, subrounded to rounded gravel; wet.						
55		GW	Loose, dark gray, subrounded to subangular, well-graded SANDY GRAVEL; wet.						
60		GP	Loose, dark gray, medium to coarse, subrounded to rounded GRAVEL with trace sand and cobbles; wet.						

ENVIR+WELL BORING REV2 4-61M-10135-U T2 GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 8.0 (in)

GROUND SURFACE ELEVATION: NA

DRILL RIG: Boart Longyear Rotasonic

CASING ELEVATION: NA

CONTRACTOR: Geo-Tech Explorations/Bruce

START CARD/TAG ID: 4267875/ALB921

LOGGED BY: B. Lary

DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:

Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10313

Cadet Manufacturing

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**LOG OF BORING
MW-28 TGA**

4-61M-10135-U T2

PAGE 2 OF 8

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GP	Loose, dark gray, medium to coarse, subrounded to rounded, poorly graded GRAVEL with trace sand and cobbles; wet.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Grout (Approximately 31 Bags)</p>
65		SP	Loose, brown, fine SAND; saturated.						
68		SP	Loose, dark brown, medium SAND; saturated.						
70			Grades to medium to coarse SAND with trace fine gravel; saturated.						
75			Grades to loose, dark brown, coarse, poorly graded SAND with some gravel and large cobbles (4.0-inch plus diameter), trace silt; saturated.						
80			Loose, dark brown, coarse SAND with some gravel and trace silt; saturated.						
85		GP	Grades to loose, dark brown, fine GRAVEL with trace cobbles and silt; saturated.						
88		SP	Grades to loose, dark brown, medium SAND; saturated.						
90		GP	Grades to loose, dark brown, fine SANDY GRAVEL, trace silt; saturated.						
90									

ENVR*WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNED03.GDT 11/23/04

BORING METHOD: Sonic
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Boart Longyear Rotasonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267875/ALB921
DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10314

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
120		SP	Loose to medium dense, dark brown, coarse GRAVELLY SAND with trace gravel (1.0-inch to 2.0-inch diameter); wet. Increase in larger gravel (1.0-inch to 2.0-inch diameter). Grades to medium dense, dark brown SANDY GRAVEL to GRAVELLY SAND with some gravel (1.0-inch to 2.0-inch diameter) and trace cobbles (3.0-inch plus diameter); wet.						
125									
130			SILT pod (approximately 2.0 inches thick).						
135		SP	Dense, brown, medium SAND with some subrounded to rounded gravel (1.0-inch to 3.0-inch diameter); wet.						
135		GW	Large granite boulder (4.0-inch diameter), weathered with some clay. Dense, dark brown, subrounded to rounded SANDY GRAVEL with trace silt; wet. Trace clay.						
140			Medium dense, brown, medium SAND; wet.						
145		SW	Grades to dense, brown, fine to medium SAND, micaceous, trace angular to subangular gravel (1.0-inch to 2.0-inch diameter); wet. Smaller and fewer gravel. GRAVEL (2.5-inch diameter) with cemented sand and gravel matrix.						

ENVR+WELL BORING REV2 4-61M-10135-U T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotasonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267875/ALB921
 DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10316

Cadet Manufacturing
 4-61M-10135-U T2

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**LOG OF BORING
 MW-28 TGA**

PAGE 5 OF 8

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
150		SW	Slight increase in gravel (1.0-inch to 2.0-inch diameter).						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Grout (Approximately 31 Bags)</p>
		SP	Igneous COBBLE (6.0-inch diameter). Medium dense, brown, fine to medium SAND, micaceous, trace silt, no gravel; moist to wet.						
155			Medium dense, brown, fine SAND, micaceous; moist to wet.						
160			Medium dense, brown, fine SAND, micaceous; moist to wet.						
165									
170									
175									
180									

ENVR+WELL BORING REV2 4-61M-10135-U T2 GPFJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotasonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267875/ALB921
 DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10317

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 4-61M-10135-U T2

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**LOG OF BORING
 MW-28 TGA**

PAGE 6 OF 8

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
180		SP	Grades to dense, dark brown, medium SAND, micaceous; moist to wet.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Grout (Approximately 31 Bags)</p> <p>Bentonite Chips (1.66 Bags)</p> <p>20/40 Colorado Silica Sand (1 Bag)</p> <p>10/20 Colorado Silica Sand (5 Bags)</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.010-inch slots)</p>
185									
190		GM	Very dense, gray-brown, medium, subrounded to subangular SILTY SANDY GRAVEL with trace clay and cobbles, moderately cemented; saturated.						
190		GC	Grades to very dense, dark gray, rounded to subrounded SANDY CLAYEY GRAVEL with trace cobbles, brown sand lenses, weakly to moderately cemented; wet.						
195									
200		SP-GW	Dense, brown and gray, fine to medium GRAVELLY SAND to subrounded, well-graded SANDY GRAVEL with trace cobbles and clay, sandy supporting the gravel; wet.						
205			Slightly silty.						
210									

TF

ENVIR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotosonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA 33.58
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267875/ALB921
 DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10318

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 4-61M-10135-U T2

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**LOG OF BORING
 MW-28 TGA**

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
210		SP-GW	Increased silt and clay content.						
215			Total depth = 215.0 feet below ground surface.						
220									
225									
230									
235									
240									

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotasonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267875/ALB921
 DRILLING DATES: 9/24/2004 - 9/29/2004

REMARKS:

Drilled with 8.0-inch casing from 0.0-190.0 feet, then drilled with 6.0-inch casing from 190.0-215.0 feet below ground surface.

AMEC 10319

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
		ML	Air knife - no sample.						
5									
			Brown, fine SANDY SILT, micaceous; dry.						
10									
			Trace clay; moist.						
15									
		GW SP	Dark brown, subrounded SANDY GRAVEL (up to 3.0-inch diameter), trace silt; moist. Dark brown, coarse GRAVELLY SAND, subrounded to rounded gravel, no silt, trace cobbles; moist.						
20		SW	Grades to dark brown, well-graded GRAVELLY SAND, subrounded to subangular gravel, trace cobbles; moist to dry.						
			Grades to coarse to medium SAND; slightly moist at 23.5 feet below ground surface.						
25									
			Grades to fine with medium to coarse, well-graded GRAVELLY SAND.						
30									
BORING METHOD: Sonic				ELEVATION REFERENCE: NA				REMARKS:	
BOREHOLE DIAMETER: 8.0 (in)				GROUND SURFACE ELEVATION: NA					
DRILL RIG: Boart Longyear Rotosonic				CASING ELEVATION: NA					
CONTRACTOR: Geo-Tech Explorations/Bruce				START CARD/TAG ID: 4267885/ALB924					
LOGGED BY: B. Lary				DRILLING DATES: 10/13/2004 - 10/13/2004					

ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND.JUNED3.GDT 12/7/04

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW							Casing (Schedule 40 PVC, 2.0-inch I.D.)
		GW	Dark brown, subangular to subrounded, well-graded SANDY GRAVEL (up to 4.0-inch diameter), some cobbles; moist.						Bentonite Chips (3/8-inch 9 Bags)
35									
		SW	Dark brown GRAVELLY SAND, subangular to subrounded gravel; moist.						
40		GW	Dark brown, subrounded to subangular, well-graded SANDY GRAVEL with trace cobbles; moist.						
			Slightly sandier from 43.0-43.5 feet below ground surface.						
45			Sand grades from coarse to medium and fine.						
50			Dark brown, coarse, subrounded SANDY GRAVEL with trace cobbles; wet.				▽		
		GM	Loose, dark brown, subrounded SILTY SANDY GRAVEL with trace cobbles; saturated.						
55		GW	Cobble (6.0-inch diameter) caught in drill bit. Loose, dark brown, coarse, subrounded to rounded SANDY GRAVEL with trace cobbles; saturated.						10/20 Colorado Silica Sand
									8/12 Colorado Silica Sand
60									
BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Boart Longyear Rotosonic CONTRACTOR: Geo-Tech Explorations/Bruce LOGGED BY: B. Lary				ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 4267885/ALB924 DRILLING DATES: 10/13/2004 - 10/13/2004			REMARKS:		
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							AMEC 10321 LOG OF BORING MW-29 USA PAGE 2 OF 5		

ENVR-1WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 12/7/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW	Loose, dark brown, subrounded SANDY GRAVEL with trace cobbles and silt; saturated.						<ul style="list-style-type: none"> Port #3 8/12 Colorado Silica Sand 20/40 Colorado Silica Sand Casing (Schedule 40 PVC, 2.0-inch I.D.)
65		SP	Grades to loose, coarse SAND with some subrounded gravel (approximately 2.0-inch diameter); saturated. Some silt pods.						
70		GP- SP	Grades to loose, poorly graded, fine SANDY GRAVEL to coarse GRAVELLY SAND, trace cobbles (2%); saturated. Increase in percentage of cobbles (15%) and large gravel. With trace silt.						
80			Loose, dark gray to brown GRAVELLY SAND to rounded to subrounded SANDY GRAVEL with trace silt and cobbles; saturated. Little to no silt.						
85									
90									

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND.JUNE03.GDT 12/7/04

BORING METHOD: Sonic	ELEVATION REFERENCE: NA
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION: NA
DRILL RIG: Boart Longyear Rotosonic	CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Bruce	START CARD/TAG ID: 4267885/ALB924
LOGGED BY: B. Lary	DRILLING DATES: 10/13/2004 - 10/13/2004

REMARKS:

AMEC 10322

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GW-SW	Loose, dark gray, subangular to subrounded, well-graded SANDY GRAVEL to GRAVELLY SAND, trace silt, no cobbles; saturated.						
95									
100			Loose, dark gray-brown, subangular to subrounded SANDY GRAVEL to GRAVELLY SAND; saturated.						
105		GW	Grades to loose, dark gray-brown, subrounded, well-graded SANDY GRAVEL; saturated.						
110		GP	Grades to loose, dark gray, coarse, rounded to subrounded, poorly graded COBBLY GRAVEL with trace sand; saturated.						
115									
120									

ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 127704

BORING METHOD: Sonic ELEVATION REFERENCE: NA
BOREHOLE DIAMETER: 8.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: Boart Longyear Rotosonic CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Bruce START CARD/TAG ID: 4267885/ALB924
LOGGED BY: B. Lary DRILLING DATES: 10/13/2004 - 10/13/2004

REMARKS:

AMEC 10323

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
120		GW	Loose, dark gray, subrounded to rounded, well-graded SANDY GRAVEL; saturated.						
		GP	Loose, dark gray, coarse, subrounded to rounded COBBLY GRAVEL; saturated.						
125		GP	Loose, dark gray, subrounded to rounded, poorly graded SANDY GRAVEL with some cobbles; saturated.						
130			Less sand.						
135			Reduced gravel size, more sand and fewer cobbles.						
140		GW	Dense, brown and dark gray, medium, rounded, well-graded SANDY GRAVEL, weakly cemented; wet. Total depth = 140.5 feet below ground surface.						
145									
150									

ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNED3.GDT 12/7/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotosonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE: NA
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267885/ALB924
 DRILLING DATES: 10/13/2004 - 10/13/2004

REMARKS:

AMEC 10324

Cadet Manufacturing 4-61M-10135-U T2	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892		LOG OF BORING MW-29 USA PAGE 5 OF 5
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						Flush-Mount Monument with Locking Cap
0-1		ML	Air knife - no sample.						Concrete
1-14			Brown, fine SANDY SILT, micaceous; dry. Trace clay; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
14-16		GW SP	Dark brown, subrounded SANDY GRAVEL (up to 3.0-inch diameter), trace silt; moist. Dark brown, coarse GRAVELLY SAND, subrounded to rounded gravel, no silt, trace cobbles; moist.						Bentonite Chips (3/8-inch, 36 Bags)
16-20		SW	Grades to dark brown, well-graded GRAVELLY SAND, subrounded to subangular gravel, trace cobbles; moist to dry.						
20-23.5			Grades to coarse to medium SAND; slightly moist at 23.5 feet below ground surface.						
23.5-30			Grades to fine with medium to coarse, well-graded GRAVELLY SAND.						

ENVR-WELL BORING REV2 4-61M-10135-U T2 GPJ AMEC PORTLAND JUNE03 GDT 11/23/04

BORING METHOD: Sonic
BOREHOLE DIAMETER: 8.0 (in)
DRILL RIG: Boart Longyear Rotosonic
CONTRACTOR: Geo-Tech Explorations/Bruce
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: 4267885/ALB923
DRILLING DATES: 10/6/2004 - 10/6/2004

REMARKS:
Drilled with 8.0-inch casing from 0.0-140.0 feet, then drilled with 6.0-inch casing from 140.0-160.0 feet below ground surface.

AMEC 10325

Cadet Manufacturing
4-61M-10135-U T2

AMEC Earth & Environmental, Inc.
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USA 97224
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Fax +1 (503) 620-7892



LOG OF BORING
MW-29 TGA
PAGE 1 OF 6

10' into TGA

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW							<p>Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Grout</p>
35		GW	Dark brown, subangular to subrounded, well-graded SANDY GRAVEL (up to 4.0-inch diameter), some cobbles; moist.						
40		SW	Dark brown GRAVELLY SAND, subangular to subrounded gravel; moist.						
45		GW	Dark brown, subrounded to subangular, well-graded SANDY GRAVEL with trace cobbles; moist.						
			Slightly sandier from 43.0-43.5 feet below ground surface.						
			Sand grades from coarse to medium and fine.						
50			Dark brown, coarse, subrounded SANDY GRAVEL with trace cobbles; wet.				▽		
55		GM	Loose, dark brown, subrounded SILTY SANDY GRAVEL with trace cobbles; saturated.						
			Cobble (6.0-inch diameter) caught in drill bit.						
		GW	Loose, dark brown, coarse, subrounded to rounded SANDY GRAVEL with trace cobbles; saturated.						
60									

ENVR+WELL BORING REV2 4-61M-10135-U T2 GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic ELEVATION REFERENCE:
BOREHOLE DIAMETER: 8.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: Boart Longyear Rotosonic CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Bruce START CARD/TAG ID: 4267885/ALB923
LOGGED BY: B. Lary DRILLING DATES: 10/6/2004 - 10/6/2004

REMARKS:
Drilled with 8.0-inch casing from 0.0-140.0 feet, then drilled with 6.0-inch casing from 140.0-160.0 feet below ground surface.

AMEC 10326

Cadet Manufacturing 4-61M-10135-U T2	AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892	

LOG OF BORING
MW-29 TGA

PAGE 2 OF 6

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GW-SW	Loose, dark gray, subangular to subrounded, well-graded SANDY GRAVEL to GRAVELLY SAND, trace silt, no cobbles; saturated.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Grout</p>
95									
100			Loose, dark gray-brown, subangular to subrounded SANDY GRAVEL to GRAVELLY SAND; saturated.						
105		GW	Grades to loose, dark gray-brown, subrounded, well-graded SANDY GRAVEL; saturated.						
110									
115		GP	Grades to loose, dark gray, coarse, rounded to subrounded, poorly graded COBBLY GRAVEL with trace sand; saturated.						
120									

ENVR-WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND, JUNE03.GDT 11/23/04

BORING METHOD: Sonic **ELEVATION REFERENCE:**

BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:** NA

DRILL RIG: Boart Longyear Rotasonic **CASING ELEVATION:** NA

CONTRACTOR: Geo-Tech Explorations/Bruce **START CARD/TAG ID:** 4267885/ALB923

LOGGED BY: B. Lary **DRILLING DATES:** 10/6/2004 - 10/6/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-140.0 feet, then drilled with 6.0-inch casing from 140.0-160.0 feet below ground surface.

AMEC 10328

Cadet Manufacturing
 4-61M-10135-U T2

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**LOG OF BORING
 MW-29 TGA**

PAGE 4 OF 6

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
120		GW	Loose, dark gray, subrounded to rounded, well-graded SANDY GRAVEL; saturated.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
		GP	Loose, dark gray, coarse, subrounded to rounded COBBLY GRAVEL; saturated.						Bentonite Grout
125		GP	Loose, dark gray, subrounded to rounded, poorly graded SANDY GRAVEL with some cobbles; saturated.						
130			Less sand.						
135			Reduced gravel size, more sand and fewer cobbles.						
140		GW	Dense, brown and dark gray, medium, rounded, well-graded SANDY GRAVEL, weakly cemented; wet.						Casing STOP-DRILL @ 140'
145			Trace clay. Very hard drilling.						Bentonite Chips (1 Bag)
150			Slight increase in clay, weakly to moderately cemented; wet to saturated.						10/20 Colorado Silica Sand (5.5 Bags)
BORING METHOD: Sonic			ELEVATION REFERENCE:			REMARKS: Drilled with 8.0-inch casing from 0.0-140.0 feet, then drilled with 6.0-inch casing from 140.0-160.0 feet below ground surface.			
BOREHOLE DIAMETER: 8.0 (in)			GROUND SURFACE ELEVATION: NA						
DRILL RIG: Boart Longyear Rotosonic			CASING ELEVATION: NA						
CONTRACTOR: Geo-Tech Explorations/Bruce			START CARD/TAG ID: 4267885/ALB923						
LOGGED BY: B. Lary			DRILLING DATES: 10/6/2004 - 10/6/2004						
Cadet Manufacturing			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					LOG OF BORING MW-29 TGA	
4-61M-10135-U T2					PAGE 5 OF 6				

ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNEC3.GDT 11/23/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
150		GW							<p>10/20 Colorado Silica Sand (5.5 Bags)</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.010-inch slots)</p> <p>End Cap</p>
155			Increase in clay content, weathering rinds observed.						
			Brown, medium SAND rind around larger gravel, clayey matrix. Only larger gravel show evidence of cementation.						
160			Increase in clay content and less sand.						
			Cobble (4.0-inch plus diameter).						
			Total depth = 164.0 feet below ground surface.						
165									
170									
175									
180									

ENVR+WELL BORING REV2 4-61M-10135-U-T2.GPJ AMEC PORTLAND JUNE03.GDT 11/23/04

BORING METHOD: Sonic
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG: Boart Longyear Rotasonic
 CONTRACTOR: Geo-Tech Explorations/Bruce
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 4267885/ALB923
 DRILLING DATES: 10/6/2004 - 10/6/2004

REMARKS:
 Drilled with 8.0-inch casing from 0.0-140.0 feet, then drilled with 6.0-inch casing from 140.0-160.0 feet below ground surface.

AMEC 10330

Cadet Manufacturing
 4-61M-10135-U T2

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**LOG OF BORING
 MW-29 TGA**
 PAGE 6 OF 6

Elevation Reference:		Well Completed: 8/17/00		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 4.0" (0-5 feet) 2.125" (6-28.4 feet)			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	1.5-inch layer of asphalt pavement underlain by base course gravel FILL to 6.0 inches; 2.0-inch layer of asphalt underlain by gravel FILL to 2.5 feet.						
5	Softer probing at 6.0 feet (SILT).						
10							
15							
20						WD	
22.0	Harder probing at 22.0 feet (Sandy GRAVEL).						
25	Dense, wet, brown, coarse-grained, well to moderately graded, gravelly SAND (15% gravel to 1.0-inch diameter).				23		
	Lithology logged by probing character.	DPW1@ 24-28'					
	TD = 28.4 feet.						
30							

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/16/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

110135\DPW1.DRW

AMEC 039568

Elevation Reference:		Well Completed: 8/17/00				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	1.5-inch layer of asphalt pavement underlain by base course gravel FILL.							
0-6	Dense, damp, brown, micaceous SILT to 6.0 feet (on auger flights).							
5								
10								
15								
20	Harder probing at 20.5 feet (SAND and GRAVEL or probing compaction due to no sampling).							
25								
28.4	Lithology logged by probing character. TD = 28.4 feet.							

LEGEND

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/17/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

110135DPW2.DRW

Elevation Reference:		Well Completed: 8/17/00				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL; Another layer of asphalt pavement underlain by base course gravel FILL to 1.5 feet.						Flush Mounted Monument Concrete Surface Seal Locking Cap Bentonite Chips	
5	Dense, damp, brown, micaceous SILT to 6.0 feet (on auger flights).						Casing (0.75-inch ID, Schedule 40 PVC) Borehole Diameter 4.0-inch	
10								
15								
20						WD	10-20 Colorado Silica Sand Screen (0.75-inch ID - 1.0-inch Schedule 40 PVC prepacked screen with 10-20 silica sand with 0.010-inch slots; outer screen is stainless steel mesh)	
25	Harder probing at 22.0 feet (SAND and GRAVEL or probing compaction due to no sampling).							
	Lithology logged by probing character.						PVC End Cap	
	TD = 28.4 feet.						Borehole Diameter 2.125-inch	
30								

LEGEND

▼ Encountered groundwater level
WD while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/17/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

110135DPW3.DRW

AMEC 035606

Elevation Reference:		Well Completed: 8/17/00			Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:			Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	2.0-inch layer of asphalt pavement underlain by 4.0-inch layer of base course gravel FILL to 6.0 inches; 2.0-inch layer of asphalt underlain by gravel FILL to 2.0 feet.						Flush Mounted Monument Concrete Surface Seal Locking Cap
5	Dense, damp, brown, micaceous SILT with trace very fine-grained sand (on auger flights).						Bentonite Chips Casing (0.75-inch ID, Schedule 40 PVC) Borehole Diameter 4.0-inch
10							
15							
20						WD	10-20 Colorado Silica Sand Screen (0.75-inch ID - 1.0-inch Schedule 40 PVC prepacked screen with 10-20 silica sand with 0.010-inch slots; outer screen is stainless steel mesh)
25	Dense, wet, brown, coarse-grained, well-graded, gravelly SAND (15%-20% gravel to 1.5-inch diameter).				102		
	Lithology logged by probing character.	DPW4@ 24-28"					
	TD = 28.4 feet.						PVC End Cap Borehole Diameter 2.125-inch
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

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Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/16/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

V10135DPW4.DRW

AMEC 035607

Elevation Reference:		Well Completed: 8/17/00				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	1.5-inch layer of asphalt pavement underlain by base course gravel FILL.						Flush Mounted Monument Concrete Surface Seal Locking Cap	
5	Loose, damp, brown, micaceous SILT with trace very fine-grained sand to 6.0 feet (on auger flights).						Bentonite Chips Casing (0.75-inch ID, Schedule 40 PVC) Borehole Diameter 4.0-inch	
10								
15								
20						WD	10-20 Colorado Silica Sand Screen (0.75-inch ID - 1.0-inch Schedule 40 PVC prepacked screen with 10-20 silica sand with 0.010-inch slots; outer screen is stainless steel mesh)	
25	Dense, wet, brown, very coarse-grained, well to moderately graded, gravelly SAND (15%-20% gravel to 1.5-inch diameter). Lithology logged by probing character.	DPW5@ 24-28"			9.7		PVC End Cap Borehole Diameter 2.125-inch	
30	TD = 28.4 feet.							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/16/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

10135DPW5.DRW

Elevation Reference:		Well Completed: 8/17/00				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL.						Flush Mounted Monument	
	Dense, damp, brown SILT to 6.0 feet (on auger flights).						Concrete Surface Seal	
5							Locking Cap	
							Bentonite Chips	
10							Casing (0.75-inch ID, Schedule 40 PVC)	
							Borehole Diameter 4.0-inch	
15								
20							10-20 Colorado Silica Sand	
							Screen (0.75-inch ID - 1.0-inch Schedule 40 PVC prepacked screen with 10-20 silica sand with 0.010-inch slots; outer screen is stainless steel mesh)	
25	Harder probing at 22.0 feet (SAND and GRAVEL).							
	Dense, wet, brown, coarse- to very coarse-grained, well to moderately graded, gravelly SAND (15% gravel to 1.0-inch diameter).							
	Lithology logged by probing character.							
	TD = 28.4 feet.						PVC End Cap	
30							Borehole Diameter 2.125-inch	

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/17/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

110135\DPW6.DRW

Elevation Reference:		Well Completed: 8/17/00		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL to 1.0 foot; another 2.0-inch layer of asphalt pavement underlain by base course gravel FILL to 2.0 feet.						
5	Dense, damp, brown, micaceous SILT (on auger flights).						
10							
15							
20						WD	
22.0	Harder probing at 22.0 feet (SAND and GRAVEL).						
25	Dense, wet, brown.						
28.4	Lithology logged by probing character.	DPW7@ 24-28'					
30	TD = 28.4 feet.				40		

LEGEND

- 2.0-Inch O.D. Geoprobe soil core sample with % recovered
- Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/16/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

10135DPW7.DRW

AMEC 03561

Elevation Reference:		Well Completed: 8/17/00				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL to 6.0 inches; another 2.0-inch layer of asphalt pavement underlain by base course gravel FILL to 2.0 feet.							
5	Dense, damp, brown SILT to 6.0 feet (on auger flights).							
10								
15								
20						WD		
22.0	Harder probing at 22.0 feet (SAND and GRAVEL).							
25	Dense, wet, brown, coarse-grained, well to moderately graded, gravelly SAND (15-20% gravel to 1.0-inch diameter).							
	Lithology logged by probing character.	DPW8@ 24-28"				2.5		
	TD = 28.4 feet.							
30								

LEGEND

2.0-inch O.D. Geoprobe soil core sample with % recovered

Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/16/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

10135DPW8.DRW

Elevation References:		Well Completed: 8/17/00				Boring Method: Geoprobe		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	1.5-inch layer of asphalt pavement underlain by base course gravel FILL.						Flush Mounted Monument Concrete Surface Seal Locking Cap Bentonite Chips Casing (0.75-inch ID, Schedule 40 PVC) Borehole Diameter 4.0-inch	
5	Dense, damp, brown SILT to 6.0 feet (on auger flights).							
10								
15								
20						WD	10-20 Colorado Silica Sand Screen (0.75-inch ID - 1.0-inch Schedule 40 PVC prepacked screen with 10-20 silica sand with 0.010-inch slots; outer screen is stainless steel mesh)	
25	Harder probing at 21.0 feet (SAND and GRAVEL). Dense, wet, brown, coarse- to medium-grained, well-graded, gravelly SAND (15% gravel at 24.0-26.0 feet, 10% gravel at 26.0-28.0 feet, 1.0-inch to 1.5-inch diameter). Lithology logged by probing character.	DPW-9 24-28'					PVC End Cap Borehole Diameter 2.125-inch	
30	TD = 28.4 feet.							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level
 while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/17/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

10135DPW9.DRW

Elevation Reference:		Well Completed: 8/17/00		Boring Method: Geoprobe		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 4.0" (0-6 feet) 2.125" (6-28.4 feet)			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatile Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	2.0-inch layer of asphalt pavement underlain by base course gravel FILL to 6.0 inches; another 2.0-inch layer of asphalt pavement underlain by base course gravel FILL.						Flush Mounted Monument Concrete Surface Seal Locking Cap
5	Dense, damp to dry, brown SILT to 6.0 feet (on auger flights).						Bentonite Chips Casing (0.75-inch ID, Schedule 40 PVC) Borehole Diameter 4.0-inch
10							
15							
20							
22.0	Harder probing at 22.0 feet (SAND and GRAVEL).						10-20 Colorado Silica Sand Screen (0.75-inch ID - 1.0-inch Schedule 40 PVC prepacked screen with 10-20 silica sand with 0.010-inch slots; outer screen is stainless steel mesh)
25	Dense, wet, brown, very coarse-grained, well-graded, gravelly SAND (20% gravel to 1.0-inch diameter).						
	Lithology logged by probing character.						
	TD = 28.4 feet.	DPW10 @ 24'-28"			1.7		PVC End Cap Borehole Diameter 2.125-inch
30							

LEGEND

 2.0-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-2 T2B

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 8/16/00

Drilling Completed: 8/17/00

Logged By: S. Kohrs

10135DPW10.DRW

AMEC 035613

Elevation Reference: NA		Well Completed: NA		Boring Method: Rotohammer/Geoprobe		ANALYSES	
Relative Ground Surface Elevation: NA		Relative Casing Elevation: NA		Borehole Diameter (in.): 1.5			
Depth (feet)	SOIL DESCRIPTION	Tedlar Bag PID Reading (ppm)	Sample ID	Sample Type	Volatle Readings (ppm)	Ground Water	AS-BUILT DESIGN
0	3.5-inch layer of concrete.						Concrete Cap
5	Dry, orangish brown, silty, micaceous SAND.		C4/ 4-6		12		Hole was backfilled with bentonite chips which were hydrated after placement.
10	Collected vapor sample in tedlar bag.	500	C4/ 8-10		148		HVOCs
15	Grades to damp.		C4/ 12-14		61		
20	Damp, brown, silty SAND grading to medium-grained SAND.		C4/ 16-18		13	WD	
20	Collected groundwater sample C4/GW-18-22 from screened interval at 18.0-22.0 feet.						
22	Total depth = 22.0 feet.						

LEGEND

 1.5-inch O.D. Geoprobe soil core sample with % recovered

 Encountered groundwater level

WD while drilling

 Groundwater Analysis (HVOCs by 8260)

 Soil Analysis (HVOCs:by 8260)

PROJECT NUMBER: 0-61M-10135-1

Cadet Manufacturing
Vancouver, Washington

AGRA EARTH & ENVIRONMENTAL, INC.

7477 SW Tech Center Drive
Portland, Oregon 97223-8025
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 6/9/00

Drilling Completed: 8/9/00

Logged By: L. Woxell

W0135C4.DRW

AMEC 035570

Elevation Reference:		Well Completed: 3/16/01				Boring Method: Direct Push		ANALYSES	
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 2.0"			
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN		
0	No soil/groundwater sampling.								
5									
10									
15									
20									
25									
30									
Total Depth = 28.0 feet.									

LEGEND

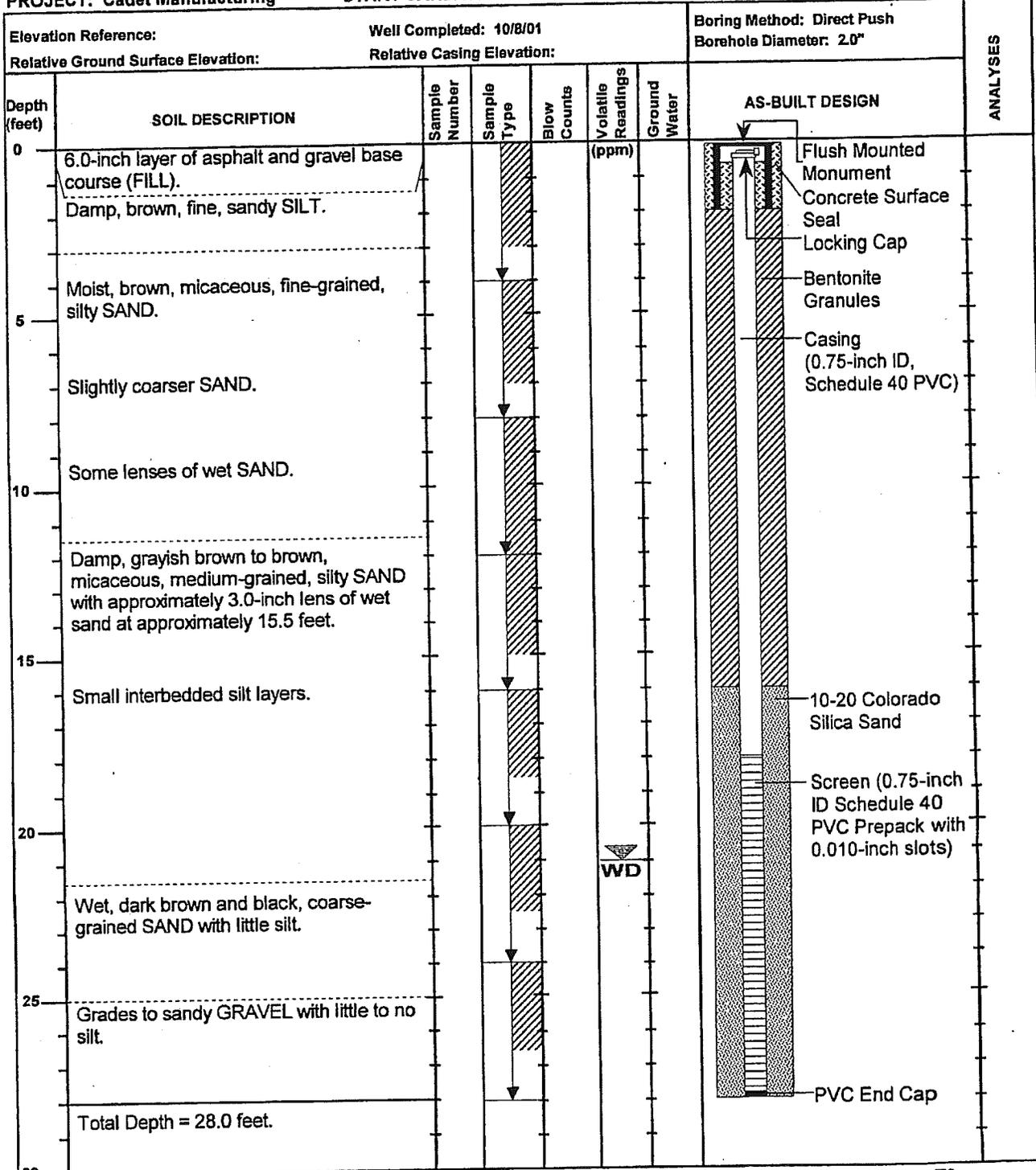
PROJECT NUMBER: 0-61M-10135-5 T4

**Cadet Manufacturing
Vancouver, Washington**

AMEC EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 3/16/01 Drilling Completed: 3/16/01 Logged By: K. Finucane 110135DPW11.DRW

Well ID	2	Ground Surface Elevation	(Ft)
	3	Top of Casing Elevation	(Ft)
	4	Screen Interval	(Ft)
	5	Slot Size	(Slot)
	6	Well Diameter	(in)
	7	Pumping Diameter	(in)
	8	Date Completed	
	9	Total Depth	(Ft)



LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Encountered groundwater level while drilling

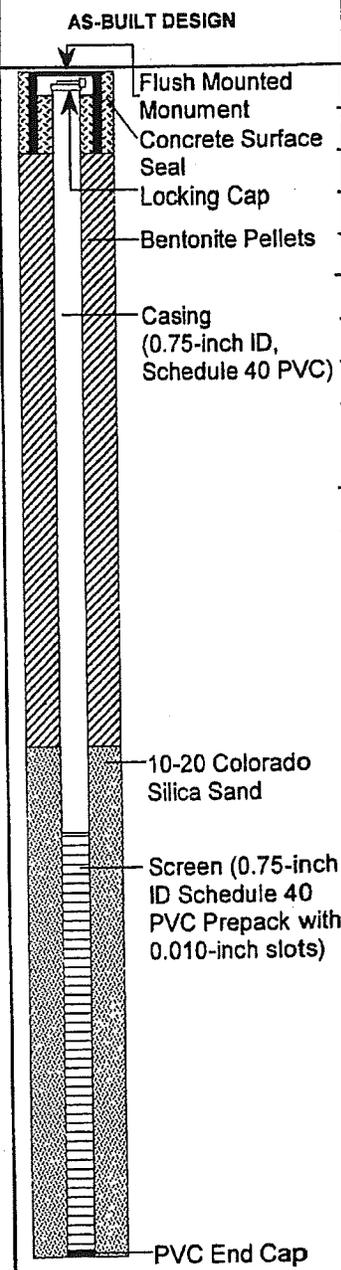
PROJECT NUMBER: 0-61M-10135-5 T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/08/01 Drilling Completed: 10/8/01 Logged By: B. Lary V10135DPW12.DRW

Elevation Reference:		Well Completed: 10/8/01		Boring Method: Direct Push		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 2.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water
0	6.0-inch layer of asphalt and gravel base course (FILL). Damp to moist, brown, micaceous, fine sandy SILT.					
5	Damp, brown, micaceous, fine-grained, silty SAND.					
10	Moist, brown, interbedded fine-grained SAND and SILT.					
15	Moist, brown, micaceous, fine- to medium-grained SAND with little silt.					
20	Damp, gray-brown, medium-grained SAND with little silt.					
25	Wet, gray-brown, medium-grained SAND.					
	Grades to coarse-grained SAND and some gravel, no silt.					
	Wet, dark brown and black, coarse-grained SAND and GRAVEL (up to 1.0-inch plus).					
	Total Depth = 28.0 feet.					
30						



LEGEND

- 2.0-inch O.D. Direct Push soil core sample with % recovered
- Encountered groundwater level while drilling

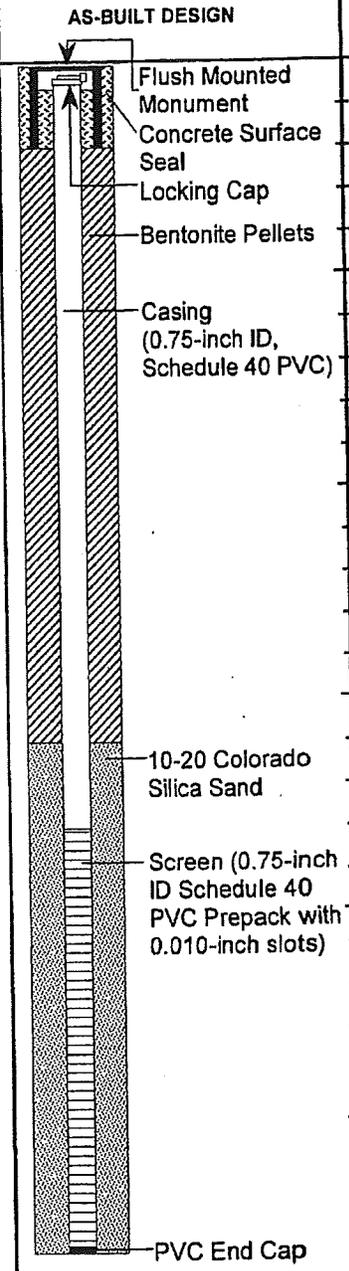
PROJECT NUMBER: 0-61M-10135-5 T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7477 SW Tech Center Drive
Portland, Oregon 97223
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/08/01 Drilling Completed: 10/8/01 Logged By: B. Lary 110135DPW13.DRW

Elevation Reference:		Well Completed: 10/8/01		Boring Method: Direct Push		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:		Borehole Diameter: 2.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water
0	6.0-inch layer of asphalt and gravel base course (FILL). Damp, brown, micaceous, fine, sandy SILT.					
5	Damp to moist, brown, micaceous, fine-grained, silty SAND.					
10	Interbedded silt layers. Dry to damp, brown, micaceous, fine-grained SAND with some silt.					
15	Interbedded SILT layers.					
20	Damp, gray-brown, medium-grained SAND with little silt. Wet, dark brown and black, coarse-grained SAND.					
25	Grades to wet, dark brown and black, coarse, sandy GRAVEL (up to 1.0-inch plus).					
Total Depth = 28.0 feet.						
30						



LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered

PROJECT NUMBER: 0-61M-10135-5 T2

Cadet Manufacturing
 Vancouver, Washington

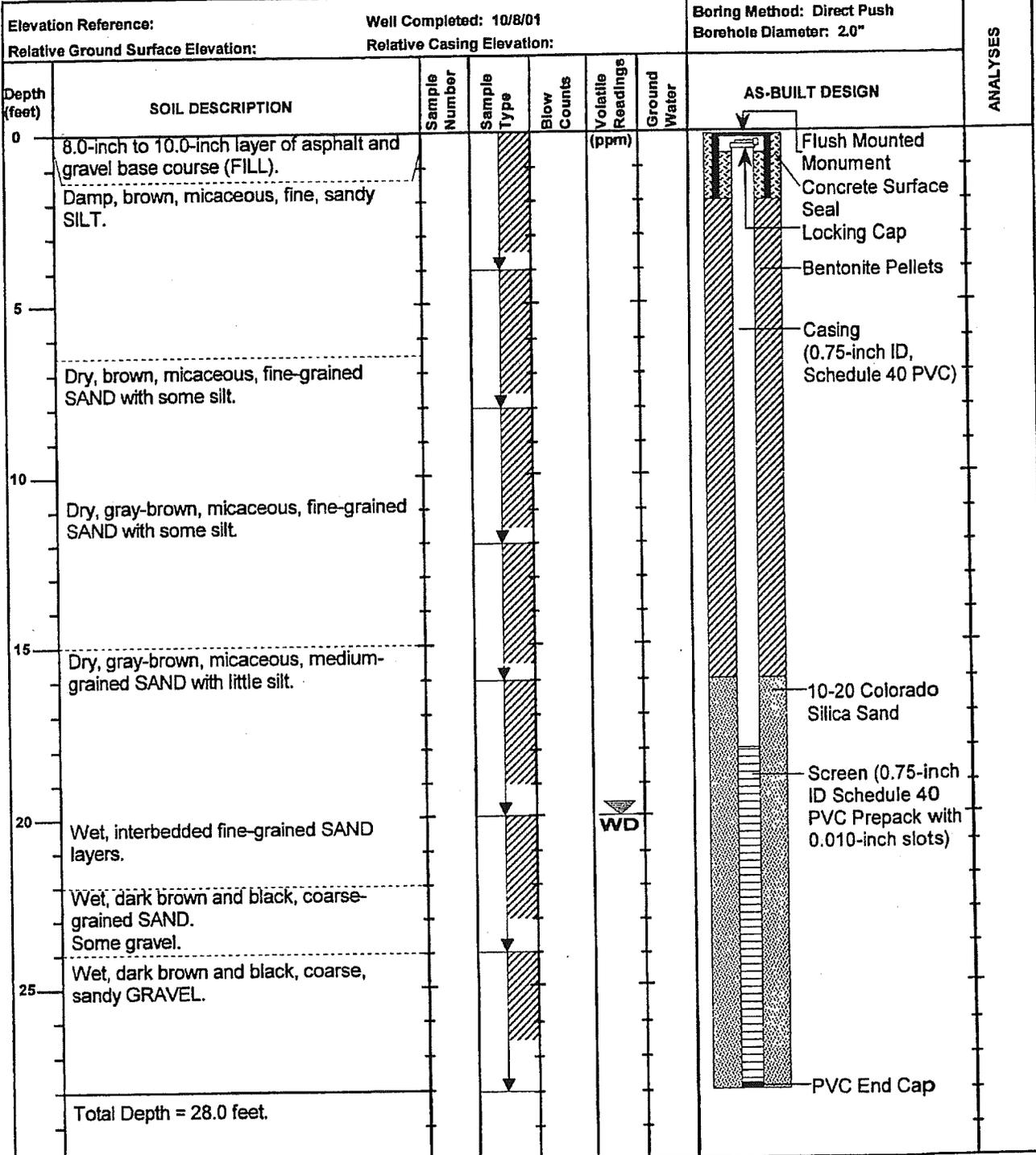
AMEC EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/08/01

Drilling Completed: 10/8/01

Logged By: B. Lary

110135DPW14.DRW



LEGEND

 2.0-inch O.D. Direct Push soil core sample with % recovered
 Encountered groundwater level while drilling

PROJECT NUMBER: 0-61M-10135-5 T2
Cadet Manufacturing
Vancouver, Washington
AMEC EARTH & ENVIRONMENTAL, INC.
 7477 SW Tech Center Drive
 Portland, Oregon 97223
 Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 10/08/01

Drilling Completed: 10/8/01

Logged By: B. Lary

110135IDPW15.DRW

Elevation Reference:		Well Completed: 4/22/02				Boring Method: Direct Push		ANALYSES
Relative Ground Surface Elevation:		Relative Casing Elevation:				Borehole Diameter: 3.0"		
Depth (feet)	SOIL DESCRIPTION	Sample Number	Sample Type	Blow Counts	Volatiles Readings (ppm)	Ground Water	AS-BUILT DESIGN	
0	Asphalt over base course gravel (FILL).							
	SAND to SANDY SILT, dry, brown, silty, micaceous, fine-grained.							
5	SAND, damp, gray-brown, silty, fine-grained.							
10	SAND, damp, gray-brown, micaceous, fine-grained, interbedded with silt layers.							
15	SAND, damp to moist, brown to gray, fine- to medium-grained, silt layers.							
20								
25								
30	Total Depth = 27.5 feet. Originally drilled and tried to install at 60.0 feet but heaving SANDS would not allow installation.							

LEGEND

PROJECT NUMBER: 1-61M-10135-L T2

Cadet Manufacturing
Vancouver, Washington

AMEC EARTH & ENVIRONMENTAL, INC.
7376 SW Durham Road
Portland, Oregon 97224
Phone (503) 639-3400 FAX (503) 620-7892

Drilling Started: 4/22/02

Drilling Completed: 4/22/02

Logged By: B. Lary

10135DPW16.DRW



SOIL BORING LOG

PROJECT NAME Cadet - POV Investigation				PROJECT NO. 5-61M-10135-7	BORING NO. POV-11
AEE FIELD REPRESENTATIVE J. Fassio				CLEV. 132'	DEPTH. 1
DRILLING CONTRACTOR Prosonic				DATE BEGUN 6-14-05	DATE COMPLETED 1 7
EQUIPMENT USED Sonic Drilling X² borehole 1 8" casing				WEATHER Partly cloudy on 6-14-05	
SAMPLE NUMBER, C - CRAB, S - SPLIT-SPOON, T - SHELBY TUBE 0-8" AT SURFACE, Clear on 6-15-05				SOIL DESCRIPTION 6" casing 0-70"	

SPLIT-SPOON DIA	SAMPLE NUMBER	BLOG/COUNT	DEPTH (SAMPLES) RECOVERY	GROUNDWATER	DEPTH (FEET)	SOIL DESCRIPTION
					0	3" Asphalt
					1	2" Concrete
					2	Dense, well graded, medium to sandy gravel with cobble; moist sand matrix is medium to coarse gravel. Gravel is subrounded to rounded (Gw)
					3	
					4	
					5	
					6	
					7	
					8	
					9	
					10	
					11	
					12	medium dense, well graded coarse SAND with some gravel (Sw)
					13	
					14	Dense, poorly graded, gravel with some coarse SAND; moist 85-90% gravel 10-15% coarse SAND, sub rounded gravel (G-P)
					15	
					16	
					17	
					18	
					19	
					20	

NA

8-12'

70%

TR fine sand and silt

TR Cobbles

COMMENTS

Note: used air knife to check for utilities from 0-8"
 No utilities encountered.



Earth & Environmental

SOIL BORING LOG

PROJECT NAME Radet - POV Investigation				PROJECT NO. 5-6M-10135-7	BORING NO. POV-Ui
SEE FIELD REPRESENTATIVE J. Fassio				SLEV. 132'	DEPTH 2
				DATE BEGUN 1/32'	DATE COMPLETED 2 OF 7
DRILLING CONTRACTOR Prosonic	EQUIPMENT USED Sonic Drilling				
SAMPLE NUMBER: G = GRAE S = SPLIT-SPOON T = SHIMLEY TUBE					
WEATHER					
DEPTH (FEET)	DEPTH SAMPLED	RECOVERY	GROUNDWATER	SOIL DESCRIPTION	
20					
1					
2					
3				medium dense ? ?	
4	17-22'	50%		medium dense, poorly graded, coarse to medium SAND with TR Gravel; moist (SP)	
5				note: poor recovery	
6					
7					
8				? ?	
9					
30				dense, well graded, sand, Gravel with TR cobbles; moist 50-60% gravel, sand is medium to coarse grained (GSM) interbedded with coarse to medium sand - 6" thick	
1	27-37'	50%			
2					
3					
4					
5					
6					
7					
8	37-47'	95%			
9					
40					

COMMENTS



SOIL BORING LOG

PROJECT NAME Cadet - POV Investigation				PROJECT NO S-61M-10135-7	BORING NO. POV-4i
AEC FIELD REPRESENTATIVE J. Fassio				ELEV. 132'	PAGE 3 OF 7
DRILLING CONTRACTOR Prosonis				DATE BEGUN 6-14-05	DATE COMPLETED
EQUIPMENT USED Sonic Drilling				WEATHER	
SAMPLE NUMBER: O - GRAB G - SHIELD-SPONGE T - SHELBY TUBE					
SPIT-SPACING	SAMPLE RECOVERY	BLOW COUNT	DEPTH SAMPLED	RECOVERY	GROUNDWATER
			DEPTH (FEET)		
			4.0		
			1		
			2		
			3		
		37'-47'	3	93%	
			4		
			5		
			6		
			7		
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			11		
			12		
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			59		
			60		

Dense, gray, well-graded, medium to coarse SAND; moist. (SP)

▽ w/ GWG 45.2' at 1195 on 6-14-05

(ML) medium stiff, brown, clayey SILT with some SAND (medium to coarse gravel) - TR Gravel
wet. (ML)

medium dense, well graded medium to coarse gravel SAND; saturated. (SW)

Gravel content increasing to 10-15% - TR Gravel.

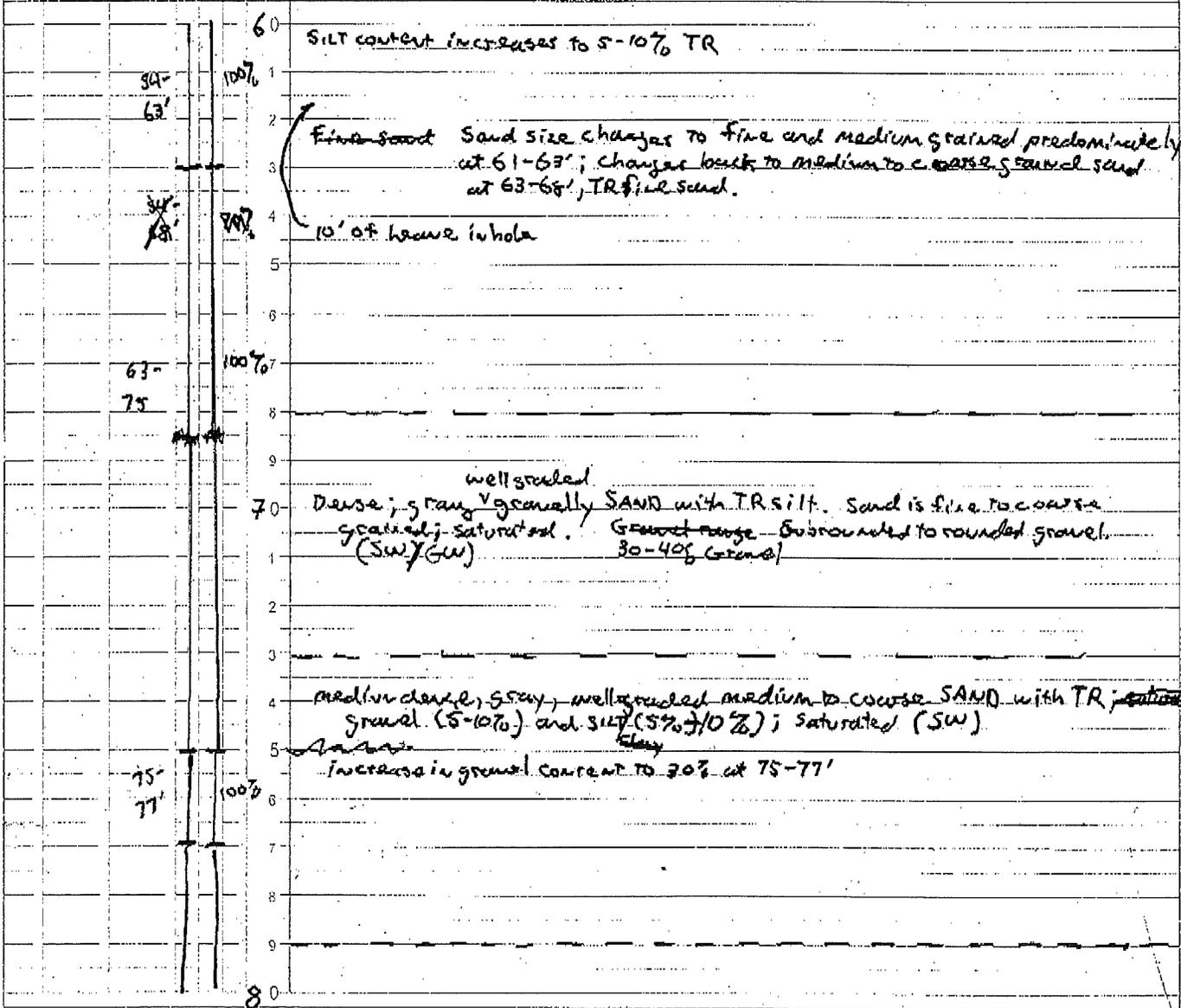
54'-63'
63'-68'
Log bottom
4' from
600g

COMMENTS



SOIL BORING LOG

PROJECT NAME Cadet - POV Investigation		PROJECT NO 5-61M-10135-7	BORING NO. POV-UI
AEE FIELD REPRESENTATIVE J. Fassio		ELEV 132'	PAGE 4 OF 7
DRILLING CONTRACTOR Prosonic		DATE BEGUN 6-14-05	DATE COMPLETED
EQUIPMENT USED Sonic Drilling		WEATHER	
SAMPLE NUMBER: G = GRAB S = SPLIT-SPOON T = SHELLY TUBE			
SOIL DESCRIPTION			



COMMENTS

Collected water sample from 69-74' screen interval. Set screen and pulled up casing 5' and allowed formation to collapse around well screen. Sample name POV-UI@74'



Earth & Environmental

SOIL BORING LOG

PROJECT NAME Cader - POV Investigation				PROJECT NO S-61M-10135-7	BORING NO. S-6-POV-U1
APP. FIELD REPRESENTATIVE J. Fassio				ELEV. 132'	PAGE 5 of 7
DRILLING CONTRACTOR Prosonic				DATE BEGUN 6-14-05	DATE COMPLETED
EQUIPMENT USED Sonic Drilling				WEATHER	
SAMPLE NUMBER: G = GRAB S = SPLIT-SPOON T = SHIELBY TUBE					
SOIL DESCRIPTION					
SPLIT-SPOON DIA.	SAMPLE NUMBER	BLOW COUNT	DEPTH SAMPLED RECOVERY ORCLINDRATER	DEPTH (FEET)	SOIL DESCRIPTION
		77-87'	100%	0-1	Dense gray, well graded sandy granular SAND; medium to coarse grained; TR silt (5-10%) (Sw)
				2-5	medium dense, well graded SAND; medium to coarse grained; TR SILT (Sw)
		87-90'		6-7	medium stiff, brown, silty fine sand with some clay; dense (SM/ML) 50% fine sand, 20% silt, 10% clay, 40%
			30%	8-9	Harder Drilling @ 88-90'
		90-95'	100%	1-2	Very dense, gray, well graded sandy Gravel with TR silt and clay; cobble; Gravel 60-65%, sand 20%, silt/clay 15%, saturated Gravel are sub rounded to rounded, coarse & fine (GW) with some SAND and
		95-97'	100%	3-6	Drilling through large rock at 95' (large cobble or boulder at 95') Cored through basal boulder at least 2.5 feet thick. Massive Basalt (RQD=86%)
		97-101'		7-10	Easier drilling at 97' medium dense, gray, well graded SAND with some silt (20-25%) (Sw) sand is fine to medium grained. silt content decreases with depth from 97-101'

COMMENTS

Collected water sample from 92-97' interval. Purged 20' gallons prior to sampling. Sample was moderately turbid. Collected 47% - VOAS sample time: 1100, Sample name: POV-U1 @ 97'



SOIL BORING LOG

PROJECT NAME Cader - POV Investigation				PROPERTY NO. S-614-10135-7	BORING NO. POV-4i
AEC FIELD REPRESENTATIVE J. Fossio				ELEV. 132'	PAGE 6 OF 7
DRILLING CONTRACTOR Prosonic				DATE BEGUN 6-14-05	DATE COMPLETED
EQUIPMENT USED Sonic Drilling				WEATHER	
SAMPLE NUMBER: G = GRAB S = SPLIT-SPOON T = Shelby TUBE					
SOIL DESCRIPTION					
DEPTH (FEET)	DEPTH SAMPLED (FEET)	RECOVERY (%)	GRC. % WATER	SOIL DESCRIPTION	
100					
1					
2	97	100%		Dense, gray, well graded, sandy Gravel with TR silt/clay; sand is medium to coarse grained; saturated (Gw)	
3	107	100%		20-25% of gravels are non-volcanics (e.g. quartzite, metamorphic or igneous)	
4				75% Basalt or Andesite	(20-30% of clasts have very thin coating of cementation at 106')
5				Silt content increases to 15-20%	
6					
7				Harder drilling	
8				Very dense, well graded, Gravel with some fine sand and silt (matrix between coarse gravels). Gravel 60% vs 24% silt 16% sand is fine to medium grained (GM) ~ 20% nonvolcanics (quartz quartzite, metamorphic clasts); uct resistant	TR clay
9	107	117		30-40% clasts with cementation coating	
10				Some intervals are matrix supported (3-6" thick). sand is concentrated adjacent to clasts in pockets in matrix unevenly	
11					
12					
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18	117	121			
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COMMENTS



SOIL BORING LOG

PROJECT NAME Cadex - POV Investigation		PROJECT NO. S-61M-10133-7	BORING NO. POV-U1
AEE FIELD REPRESENTATIVE J. Fassio		ELEV. 132'	PAGE 7 OF 7
DRILLING CONTRACTOR Prosonic		DATE BEGUN 6-14-05	DATE COMPLETED
EQUIPMENT USED Sonic Drilling		WEATHER	
SAMPLE NUMBER: G = GRAB S = SPIN. SPOON T = SHELBY TUBE			

SPIN. SPOON DIA.	SAMPLE NUMBER	BLOW COUNT	DEPTH (SAMPLE)	RECOVERY	GROUNDWATER	DEPTH (FEET)	SOIL DESCRIPTION
			117'			120	
			123'	100%		1	
						2	
			121'			3	
			132'	100%		4	
						5	
						6	
						7	
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						99	
						100	

TD=132'

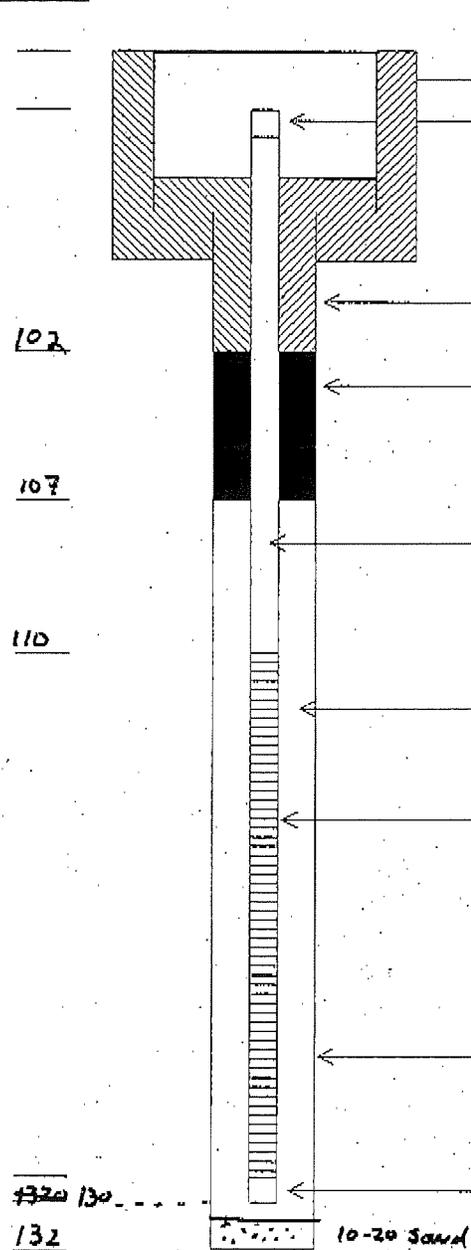
COMMENTS



Earth & Environmental

MONITORING WELL AS-BUILT REPORT

PROJECT No. S-61M-10135-7
 PROJECT NAME Cadex
 LOCATION W 11th & Lincoln
 OBSERVED BY Joe Passio
 BORING/WELL I.D. POV-U
 DRILLER/INSTALLER Stevens, Dangel, Jago, Aaron
 DATE 6-16-06
 SOIL TYPE _____ DEPTH _____
 START CARD#/WELL TAG I.D.# _____



ABOVE GROUND RISER HEIGHT (IF APPLICABLE) _____
 MONUMENT TYPE (IF APPLICABLE) _____
 WELL CAP TYPE _____
 GROUT TYPE/#SACKS Grout-well™ ut-Bru, Inc
Bertha's Grout / 12
410 350 5/16" 100#
 BENTONITE SEAL /#SACKS Bentonite
medium chips, 2 bag
NSF ut-Bru, Inc.
EnviroPlus™
 WELL CASING I.D. 2"
 TYPE OF CASING PVC
 TYPE OF CONNECTION Threaded
 FILTER PACK / SIZE / #SACKS 10-20 SAND / 7
 WELL SCREEN I.D. 2"
 TYPE OF SCREEN 0.10 Slot
 SLOT SIZE _____
 DIAMETER OF BOREHOLE 6"
 ENDCAP TYPE Threaded

REMARKS _____



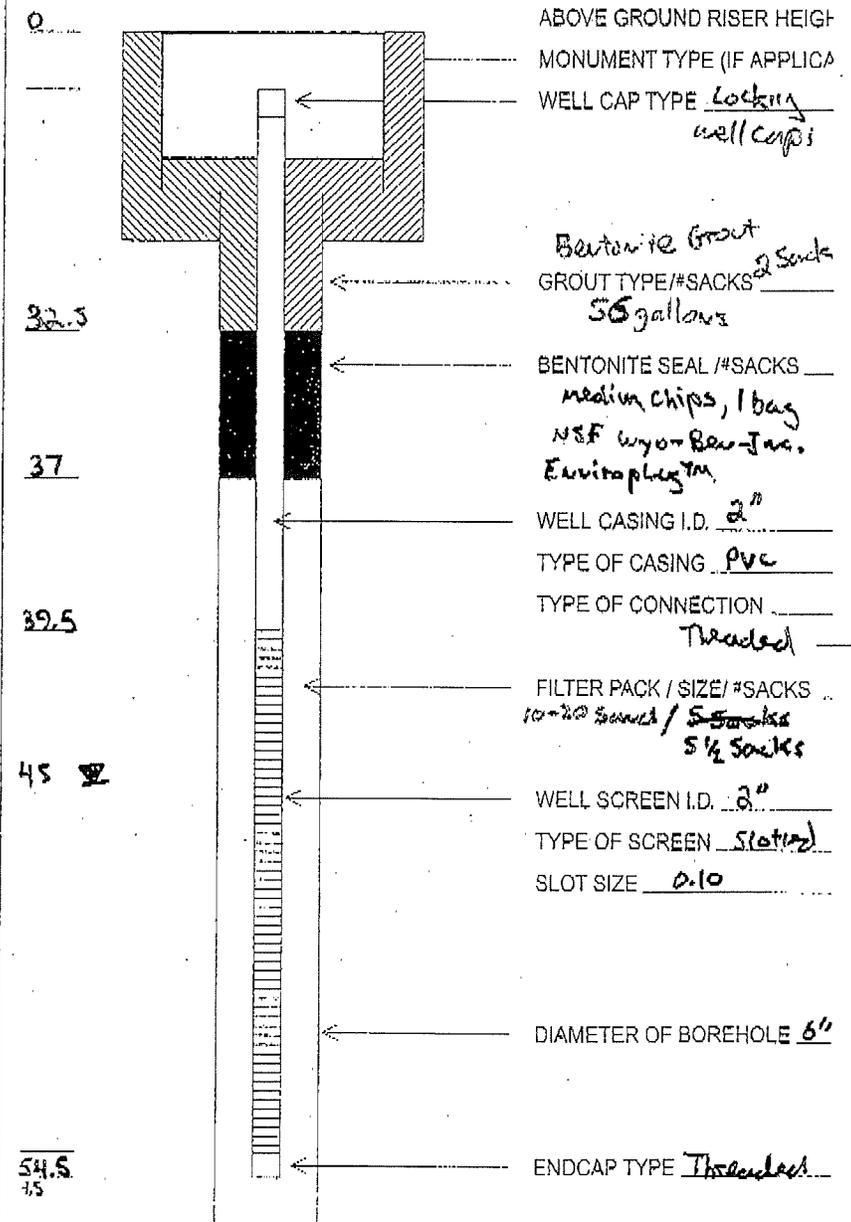
MONITORING WELL

LOCATION near 1813 W 11th
W. 11th and Lincoln - Vancouver
 OBSERVED BY J. Fassio
 DRILLER/INSTALLER Steve

PROJECT NO. 5-51M-10133-7
 PROJECT NAME Codey
 BORING/WELL I.D. POV - US
 DATE 5-16-05
 START CARD#/WELL T.

SOIL TYPE DEPTH

SOILS NOT LOGGED @ US SINCE ALREADY LOGGED ON U.I.
 (THIS IS ONLY A COUPLE FEET AWAY)



REMARKS

RGRW & ASSOCIATED WELLS

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (3/4-inch to 1.0-inch) underlain by GRAVEL FILL (base course).						
1 to 22		SM-SP	Brown SANDY SILT; dry. Grades to SILTY SAND.						
22 to 30		GM-GP	Grades to GRAVELLY SAND with little silt.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Mobilie B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT874 DRILLING DATES: 11/17/2003 - 11/17/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNED3.GDT 9/9/04

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LOG OF BORING
MR-1/45'

AMEC 042173

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GM-GP	GRAVELLY SAND with little silt.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D., with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
45									
50									
55									
60									

ENVR+WELL BORING REV2 3-91M-10135-C-T3.GPJ AMEC-PORTLAND JUNE03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (In) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT874 DRILLING DATES: 11/17/2003 - 11/17/2003	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.
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AMEC 042174

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (3/4-inch to 1.0-inch).						
0 - 24		ML	Brown SANDY SILT; dry.						
24 - 30		SP	GRAVELLY SAND.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 11.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT872 DRILLING DATES: 11/13/2003 - 11/13/2003				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.	

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT B0904

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LOG OF BORING
 MR-1/80'

PAGE 1 OF 3

AMEC 042175

DEPTH (ft Bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SP	GRAVELLY SAND.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
35									Bentonite Chips (29 Bags)
40		GW	Larger SANDY GRAVEL. Harder drilling.						8-12 Colorado Silica Sand
45			Subrounded, basalt GRAVEL (1.0-inch to 4.0-inch). Drilling smoothed out.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
50			GRAVEL. Rough drilling.						Cone-shaped End Cap
55			Continued interbedded sandier layers.						20-40 Colorado Silica Sand (6 Bags)
60									

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 11.0 (in)

GROUND SURFACE ELEVATION: NA

DRILL RIG: Mobile B59

CASING ELEVATION: NA

CONTRACTOR: Geo-Tech Explorations

START CARD/TAG ID: R64579/AHT872

LOGGED BY: B. Lary

DRILLING DATES: 11/13/2003 - 11/13/2003

REMARKS:

No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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**LOG OF BORING
MR-1/80'**

PAGE 2 OF 3

AMEC 042176

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		GP	SANDY GRAVEL.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20-40 Colorado Silica Sand (6 Bags)</p> <p>Bentonite Chips</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
65			GRAVEL size or content increases.						
70									
75									
80			Total depth = 80.0 feet below ground surface.						
85									
90									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 11.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT872 DRILLING DATES: 11/13/2003 - 11/13/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR-WELL BORING REV 2 3-61M-10135-C T3.GPJ AMEC PORTLAND JUN03.GOT 8/9/04

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						Flush-Mount Monument with Locking Cap
0 - 22		ML-SM	SANDY SILT to SILTY SAND.						Concrete
22 - 27		GW	SANDY GRAVEL/PEBBLES.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
27 - 30									Bentonite Chips (3/8-inch)
30									Bentonite Quik-Grout (50 Gallons)

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Mobile B59 **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT869
LOGGED BY: B. Lary **DRILLING DATES:** 11/12/2003 - 11/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
MR-2
 PAGE 1 OF 2

AMEC 042178

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	SANDY GRAVEL.						<ul style="list-style-type: none"> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Quik-Grout (50 Gallons) 10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots) End Cap
60			Total depth = 60.0 feet below ground surface.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary			ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT869 DRILLING DATES: 11/12/2003 - 11/12/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.			

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND.JUNE03.GDT_BIS04

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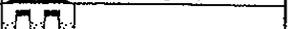
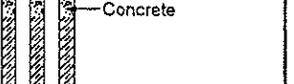
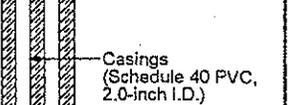
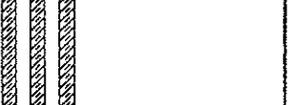
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LOG OF BORING
 MR-2

PAGE 2 OF 2

AMEC 042179

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt						
		ML	Brown SANDY SILT, dry.						
		SM	Grades to SILTY SAND.						
5									
10									
15									
20		SP	GRAVELLY SAND interbedded with SAND layers.						
25									
30			Increased GRAVEL.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 11.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT873 DRILLING DATES: 11/14/2003 - 11/14/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 3-61M-10135-C T3 GPJ AMEC PORTLAND JUNE03 GDT 8/9/04

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LOG OF BORING
MR-3

PAGE 1 OF 3

AMEC 042180

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SP							<ul style="list-style-type: none"> Bentonite Chips (3/4-inch, 25 Bags) 8-12 Colorado Silica Sand (9 Bags) Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots) Casing (Schedule 40 PVC, 2.0-inch I.D.) Cone-shaped End Cap 20-40 Colorado Silica Sand (6 Bags)
43		GW	SANDY GRAVEL						
60									

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUN03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 11.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: R64579/AHT873
DRILLING DATES: 11/14/2003 - 11/14/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
MR-3

PAGE 2 OF 3

AMEC 042181

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW	SANDY GRAVEL.						<ul style="list-style-type: none"> Casing (Schedule 40 PVC, 2.0-inch I.D.) 20-40 Colorado Silica Sand Bentonite Chips (3/4-inch, 1 Bag) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap
65									
70									
75			Larger GRAVEL/COBBLES. Harder drilling.						
80			Total depth = 80.0 feet below ground surface.						
85									
90									

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:
BOREHOLE DIAMETER: 11.0 (in)	GROUND SURFACE ELEVATION: NA
DRILL RIG: Mobile B59	CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations	START CARD/TAG ID: R64579/AHT873
LOGGED BY: B. Lary	DRILLING DATES: 11/14/2003 - 11/14/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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**LOG OF BORING
MR-3**

PAGE 3 OF 3

AMEC 042182

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC	
0		SM	Asphalt						Flush-Mount Monument with Locking Cap	Concrete
0 - 19			Loose, brown SILTY SAND; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)	Bentonite Chips (3/8-inch, 10 Bags)
19		GW-SW	SANDY GRAVEL to GRAVELLY SAND.						Bentonite Quik-GROUT (Approximately 50 Gallons, 1.5 Bags to 40 Gallons)	
30										

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUN03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 6.0 (in)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: R64579/AHT866
DRILLING DATES: 11/10/2003 - 11/10/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW-SW	SANDY GRAVEL to GRAVELLY SAND.						<ul style="list-style-type: none"> Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Quik-Grout (Approximately 50 Gallons, 1.5 Bags to 40 Gallons) 8-12 Colorado Silica Sand (4 Bags) Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots) Cone-shaped End Cap
45		GW	GRAVEL increases, sand decreases.						
60	Total depth = 60.0 feet below ground surface.								
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 6.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT866 DRILLING DATES: 11/10/2003 - 11/10/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 89/04

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LOG OF BORING
 MR-4

PAGE 2 OF 2

AMEC 042184

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (3/4-inch to 1.0-inch).						<p>Flush-Mount Monument with Locking Cap</p> <p>Concrete</p> <p>Casings (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (32 Bags)</p>
0 - 24		ML	Brown SANDY SILT; dry to moist.						
24 - 30		SW	GRAVELLY SAND. Slightly harder drilling.						
<p>ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND-JUNE03.GDT 09/04</p> <p>BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:</p> <p>BOREHOLE DIAMETER: 11.0 (in) GROUND SURFACE ELEVATION: NA</p> <p>DRILL RIG: Mobile B59 CASING ELEVATION: NA</p> <p>CONTRACTOR: Geo-Tech Explorations START CARD/TAG ID: R64579/AHT871</p> <p>LOGGED BY: B. Lary DRILLING DATES: 11/13/2003 - 11/13/2003</p> <p>REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.</p>									
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DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW	GRAVELLY SAND.						
35		GW	Larger SANDY GRAVEL/COBBLES.						
45		GW-SW	Interbedded SAND layers.						
60									

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND, JUNE03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 11.0 (In)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: R64579/AHT871
DRILLING DATES: 11/13/2003 - 11/13/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
MR-5

PAGE 2 OF 3

AMEC 042186

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW-SW							<p>Casing (Schedule 40 PVC, 2.0-inch I.D.) 20-40 Colorado Silica Sand (7 Bags) Bentonite Chips (3/4-inch, 1 Bag) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand) Cone-shaped End Cap</p>
75		GP	Large GRAVEL/COBBLE. Very slow drilling.						
80			Total depth = 80.0 feet below ground surface.						

ENVR+WELL BORING REVZ 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 889D4

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 11.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Mobile B59 **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT871
LOGGED BY: B. Lary **DRILLING DATES:** 11/13/2003 - 11/13/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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**LOG OF BORING
MR-5**

PAGE 3 OF 3

AMEC 042187

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course). SANDY SILT to SILTY SAND.						Flush-Mount Monument with Locking Cap
0-5		ML- SM							Concrete
5-22									Casings (Schedule 40 PVC, 2.0-inch I.D.)
22-25									Bentonite Chips (20 Bags)
25-30		SW- GW	SAND to SANDY GRAVEL.						

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 8/9/04

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 11.0 (in)
 DRILL RIG: Mobile B59
 CONTRACTOR: Geo-Tech Explorations
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: R64579/AHT870
 DRILLING DATES: 11/12/2003 - 11/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
MR-6
 PAGE 1 OF 3

AMEC 042188

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		SW-GW							<ul style="list-style-type: none"> Bentonite Chips (20 Bags) 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots) Casing (Schedule 40 PVC, 2.0-inch I.D.) Cone-shaped End Cap 20-40 Colorado Silica Sand
35		GP	Coarse SANDY GRAVEL with cobbles (4.0-inch plus).						
40									
45									
50									
55									
60									

ENVR+WELL BORING REV2, 3-61M-10135-C-T3.GPJ AMEC PORTLAND, JUNE03.GDT, 8/9/04

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 11.0 (In)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: R64579/AHT870
DRILLING DATES: 11/12/2003 - 11/12/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING MR-6

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AMEC 042189

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC	
50		GP	SANDY GRAVEL.							
68										
70										
75		SP	SAND lens at 72.0-75.0 feet below ground surface. Easy drilling.							
75		GP	SANDY GRAVEL.							
80			Total depth = 80.0 feet below ground surface.							
85										
90										
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 11.0 (In) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT870 DRILLING DATES: 11/12/2003 - 11/12/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.			
Cadet Manufacturing Vancouver, Washington 3-81M-10135-C T3				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						LOG OF BORING MR-6 PAGE 3 OF 3

ENVR+WELL BORING REV. 2 3-81M-10135-C-T3.GPJ AMEC PORTLAND, JUNE03.GDT 8/9/04

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML-SM	Asphalt (3/4-inch to 1.0-inch). SANDY SILT.						
5									
10									
15									
20									
22		SP	GRAVELLY SAND.						
25									
30									

ENVIR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNED3.GDT. 8/9/04

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 11.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Mobile B59 **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT868
LOGGED BY: B. Lary **DRILLING DATES:** 11/11/2003 - 11/11/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SP							10-20 Colorado Silica Sand (Transition Layer)
35		GP	Larger GRAVEL/COBBLES to SANDY GRAVEL. Hard drilling.						8-12 Colorado Silica Sand (2 Bags) + NATIVE
40			GRAVEL, little sand. Harder drilling at 40.0-45.0 feet below ground surface.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)
45									Casing (Schedule 40 PVC, 2.0-inch I.D.)
50									Cone-shaped End Cap
55									Bentonite Grout (Approximately 30-35 Gallons)
60		SP	SAND (approximately 2.0-4.0 feet). Easier drilling.						

ENVR-WELL BORING REVZ 3-51M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 8/5/04

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 11.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Mobile B59 **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:** R64579/AHT868
LOGGED BY: B. Lary **DRILLING DATES:** 11/11/2003 - 11/11/2003

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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**LOG OF BORING
MR-7**

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AMEC 042192

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		SP	SAND.						<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips</p> <p>8-12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-pack with 8-12 Colorado Silica Sand)</p> <p>Cone-shaped End Cap</p>
62		GP	SANDY GRAVEL.						
65			Intermittant GRAVEL.						
70			GRAVEL.						
80			Total depth = 80.0 feet below ground surface.						

ENVR-WELL BORING REV2 3-61M-10135-C T3.GPJ AMEC PORTLAND.BONE03.GDT 88004

BORING METHOD: Hollow Stem Auger
BOREHOLE DIAMETER: 11.0 (ln)
DRILL RIG: Mobile B59
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID: R64579/AHT868
DRILLING DATES: 11/11/2003 - 11/11/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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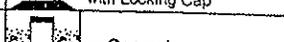
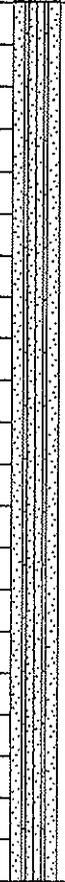
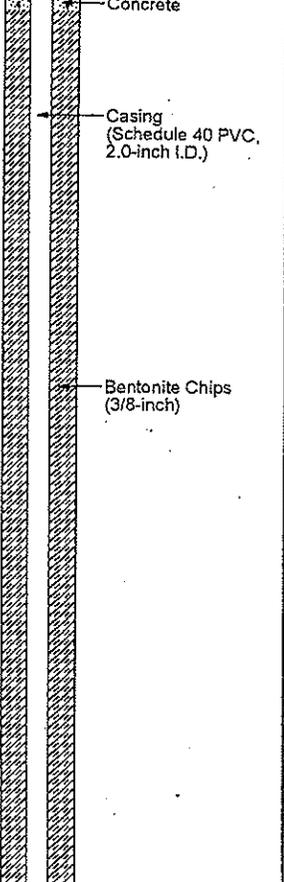
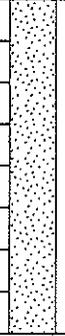
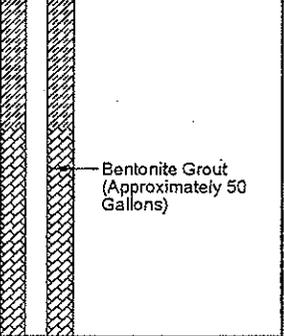
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LOG OF BORING
MR-7

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AMEC 042193

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
0 - 22		ML-SM	SILTY SAND to SANDY SILT.						
22 - 30		SP	GRAVELLY SAND.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 6.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT867 DRILLING DATES: 11/10/2003 - 11/10/2003				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.	

ENVR+WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 88904

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LOG OF BORING
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AMEC 042194

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SP							<p>Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Grout (Approximately 50 Gallons)</p> <p>8-12 Colorado Silica Sand (4 Bags)</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)</p> <p>End Cap</p>
45		GP	SANDY GRAVEL						
60	Total depth = 60.0 feet below ground surface.								
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 6.0 (in) DRILL RIG: Mobile B59 CONTRACTOR: Geo-Tech Explorations LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64579/AHT867 DRILLING DATES: 11/10/2003 - 11/10/2003			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNES.GDT 89104

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AMEC 042195

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, micaceous, some fine sand, some clay; moist.						Flush-Mount Monument with Locking Cap
5									Concrete
10									Casing (Schedule 40 PVC, 2.0-inch I.D.)
15		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous, fine to medium sand; moist.						Bentonite Chips (Coarse, 3/4-inch)
20									10/20 Colorado Silica Sand
25		GM-GW	Fine, well-graded GRAVEL with fines, some coarse sand; wet.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
30									End Cap
			Total depth = 30.5 feet below ground surface.						

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

BORING METHOD: Hollow Stem Auger **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 8.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joel **START CARD/TAG ID:** 64592/AKT842
LOGGED BY: J. Hammer, J. Fassio **DRILLING DATES:** 4/29/2004 - 4/29/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
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AMEC 042196

ENVR-WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, micaceous, some fine sand, trace clay; moist.						
5									
15		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous, trace fine sand; moist.						
20		GM-GW	Fine, rounded, well-graded GRAVEL with fines, some gray silt; moist.						
25									
30									

BORING METHOD: Hollow Stem Auger

ELEVATION REFERENCE:

BOREHOLE DIAMETER: 12.0 (in)

GROUND SURFACE ELEVATION: NA

DRILL RIG:

CASING ELEVATION: NA

CONTRACTOR: Geo-Tech Explorations/Joel

START CARD/TAG ID: 64592/AKT145

LOGGED BY: J. Hammer

DRILLING DATES: 5/3/2004 - 5/3/2004

REMARKS:

No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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AMEC 042197

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND, JUNE03.GDT, 7/19/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GM-GW	Fine, rounded, well-graded GRAVEL with fines, some gray silt; moist.						
35									
40									
45									
50									
55									
60									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT145 DRILLING DATES: 5/3/2004 - 5/3/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

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LOG OF BORING
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AMEC 042198

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC				
60		GM-GW	Fine, rounded, well-graded GRAVEL with fines, some gray silt; moist.						<ul style="list-style-type: none"> Well Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch) Native Formation (Heaved Sands) Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand) 				
65													
70													
75													
80													
85													
90													
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT145 DRILLING DATES: 5/3/2004 - 5/3/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.					
ENVR-WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04 Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						LOG OF BORING MR-10 PAGE 3 OF 4			

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GM-GW	Fine, rounded, well-graded GRAVEL with fines, some gray silt; moist.						<p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand)</p> <p>Native Formation (Heaved Sands)</p> <p>End Cap</p>
95									
100			Total depth = 99.6 feet below ground surface.						
105									
110									
115									
120									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT145 DRILLING DATES: 5/3/2004 - 5/3/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

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AMEC 042200

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, micaceous, some fine sand, trace clay; moist.						Flush-Mount Monument with Locking Cap Concrete
5		SM	Soft, brown, slightly plastic SANDY SILT, micaceous, trace fine sand; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (Coarse, 3/4-inch)
10									10/20 Colorado Silica Sand
15		GM-GW	Fine, well-graded GRAVEL with fines, some gray silt; moist.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
20									
25									
30									

ENVR-WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND.USNE03.GDT 7/19/04

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG:
 CONTRACTOR: Geo-Tech Explorations/Joel
 LOGGED BY: J. Hammer

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 64592/AKT843
 DRILLING DATES: 4/29/2004 - 4/29/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
 MR-11

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AMEC 042201

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GM-GW	Fine, well-graded GRAVEL with fines, some gray silt; moist.						
35			Coarse GRAVEL.						
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (In) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT843 DRILLING DATES: 4/29/2004 - 4/29/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND.JUNEB03.GDT 7/19/04

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LOG OF BORING
MR-11

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AMEC 042202

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, micaceous, some fine sand, trace clay; moist.						Flush-Mount Monument with Locking Cap Concrete
5		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous; moist.						Well Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch)
15		GM-GW	Fine, rounded, well-graded GRAVEL with fines, some gray silt; moist.						8/12 Colorado Silica Sand
20		GP	Coarse, rounded GRAVEL, some cobbles, trace sand/silt.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
25									
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592AJKT DRILLING DATES: 4/30/2004 - 4/30/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENWR-WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUN03.GDT 7/19/04

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LOG OF BORING
MR-12

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AMEC 042203

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GP	Coarse, rounded GRAVEL, some cobbles, trace sand/silt.						
52		SP	SAND.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 4/30/2004 - 4/30/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL LOGGING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

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LOG OF BORING
MR-12

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AMEC 042204

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC			
60		SP	Medium dense, gray, fine to medium, poorly graded SAND; wet to saturated.						<p>Well Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>Bentonite Chips (3/8-inch)</p> <p>8/12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand)</p>			
65												
70												
75												
80												
85												
90												
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 4/30/2004 - 4/30/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.					

ENVR-WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC-PORTLAND JUNE03.GDT 7/19/04

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LOG OF BORING
MR-12

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AMEC 042205

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SP	Medium dense, gray, fine to medium, poorly graded SAND; wet to saturated.						<p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand)</p> <p>8/12 Colorado Silica Sand</p> <p>End Cap</p>
101.6			Total depth = 101.6 feet below ground surface.						
105									
110									
115									
120									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 4/30/2004 - 4/30/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

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LOG OF BORING
MR-12

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AMEC 042206

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC	
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, some fine sand, trace clay; moist.						Flush-Mount Monument with Locking Cap Concrete	
5									Well Casing (Schedule 40 PVC, 2.0-inch I.D.)	
10		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous, trace sand; moist.						Bentonite Chips (3/8-inch)	
15		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						8/12 Colorado Silica Sand	
20										
25									Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)	
30										
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 5/10/2004 - 5/10/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 4-S1M-10135-L T3.GPJ AMEC PORTLAND.JUNE03.GDT 7/19/04

21.5

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LOG OF BORING
MR-13

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AMEC 042207

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0 5 10 15 20 25 30 35 40 45 50 55 60		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer			ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 5/10/2004 - 5/10/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.			
ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04 Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					LOG OF BORING MR-13 PAGE 2 OF 4	

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AMEC 042208

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT'N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						<p>Well Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand</p> <p>Bentonite Chips (3/8-inch)</p> <p>8/12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand)</p>
65									
70									
75									
80									
85									
90									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 5/10/2004 - 5/10/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR-WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC-PORTLAND-JUNE03.GDT 7/19/04

74.5

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LOG OF BORING
MR-13

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AMEC 042209

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GM-GW	Cemented GRAVEL.					94.5	<p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand)</p> <p>8/12 Colorado Silica Sand</p> <p>End Cap</p>
95			Total depth = 95.0 feet below ground surface due to refusal.						
100									
105									
110									
115									
120									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 5/10/2004 - 5/10/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/25/04

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AMEC 042210

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch) Brown SANDY SILT, some fine sand, trace clay; moist.						Flush-Mount Monument with Locking Cap
5									Concrete
10		SM	Soft, brown, slightly plastic SANDY SILT, micaceous, trace fine sand; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15									Bentonite Chips (Coarse, 3/8-inch)
20		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						8/12 Colorado Silica Sand
22			Large cobble or boulder encountered at 22.0 feet below ground surface.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
25									
30									

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND_JUNED3.GDT 7/19/04

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 8.0 (in)
 DRILL RIG:
 CONTRACTOR: Geo-Tech Explorations/Joel
 LOGGED BY: J. Hammer

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 64592/AKT845
 DRILLING DATES: 5/7/2004 - 5/7/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
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AMEC 042211

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						
35									
40	Total depth = 40.0 feet below ground surface.								
45									
50									
55									
60									

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND_JUNE03.GDT 7/19/04

BORING METHOD: Hollow Stem Auger	ELEVATION REFERENCE:	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION: NA	
DRILL RIG:	CASING ELEVATION: NA	
CONTRACTOR: Geo-Tech Explorations/Joel	START CARD/TAG ID: 64592/AKT845	
LOGGED BY: J. Hammer	DRILLING DATES: 5/7/2004 - 5/7/2004	

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	AMEC 042212		

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, some fine sand, trace clay; moist.						Flush-Mount Monument with Locking Cap
5									Concrete
10		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous; moist.						Casing (Schedule 40 PVC, 2.0-inch I.D.)
15									Bentonite Chips (Coarse, 3/8-inch)
20		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						8/12 Colorado Silica Sand
25			Coarse GRAVEL.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64952/AKT847 DRILLING DATES: 5/7/2004 - 5/7/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.	

ENVIR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

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LOG OF BORING
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AMEC 042213

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						
35									
40			Total depth = 40.0 feet below ground surface.						
45									
50									
55									
60									

BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 3.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer	ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64952/AKT847 DRILLING DATES: 5/7/2004 - 5/7/2004	REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.
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AMEC 042214

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READINGS (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt layer (2.0-inch) underlain by coarse, base aggregate (2.0-inch). Brown SANDY SILT, some fine sand, trace clay; moist.						Flush-Mount Monument with Locking Cap Concrete
5		SM	Soft, gray-brown, slightly plastic SANDY SILT, micaceous; moist.						Well Casing (Schedule 40 PVC, 2.0-inch I.D.) Bentonite Chips (3/8-inch)
10		GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						8/12 Colorado Silica Sand
15			Coarse GRAVEL at 22.0 feet below ground surface.						Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)
20			Fine GRAVEL at 29.0 feet below ground surface.						
25									
30									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 5/11/2004 - 5/11/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.	

ENVIRWELL BORING REV2 4-61M-10135-L T3 GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

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LOG OF BORING
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AMEC 042215

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30 35 40 45 50 55 60		GM- GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						<p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots)</p> <p>8/12 Colorado Silica Sand</p> <p>End Cap</p> <p>Well Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand</p>

ENVR+WELL BORING REV/2 4-61M-10135-L T3.GPJ AMEC PORTLAND_JUNE03.GDT 7/19/04

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 12.0 (in)
 DRILL RIG:
 CONTRACTOR: Geo-Tech Explorations/Joel
 LOGGED BY: J. Hammer

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 64592/AKT
 DRILLING DATES: 5/11/2004 - 5/11/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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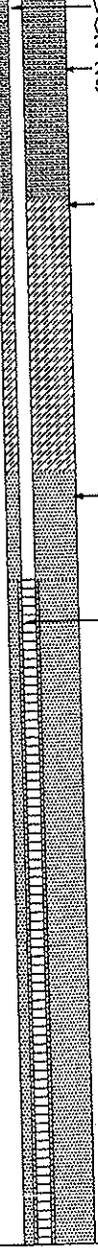
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LOG OF BORING
 MR-16

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AMEC 042216

DEPTH (ft bgs)	GRAPHIC LOG USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60 65 70 75 80 85 90	GM-GW	Fine, subrounded, well-graded GRAVEL with fines, some gray silt; moist.						 <p>Well Casing (Schedule 40 PVC, 2.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand</p> <p>Bentonite Chips (3/8-inch)</p> <p>8/12 Colorado Silica Sand</p> <p>Well Screen (Schedule 40 PVC, 2.0-inch I.D. with 0.020-inch slots, Pre-packed with 10/20 Colorado Silica Sand)</p>

ENVR+WELL BORING REV2 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/19/04

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 12.0 (in)
 DRILL RIG:
 CONTRACTOR: Geo-Tech Explorations/Joel
 LOGGED BY: J. Hammer

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: 64592/AKT
 DRILLING DATES: 5/11/2004 - 5/11/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
 MR-16

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AMEC 042217

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOLO	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GM-GW	Cemented GRAVEL.						
94.5			Total depth = 94.5 feet below ground surface due to refusal.						
100									
105									
110									
115									
120									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Joel LOGGED BY: J. Hammer				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: 64592/AKT DRILLING DATES: 5/11/2004 - 5/11/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.		

ENVR+WELL BORING REVZ 4-61M-10135-L T3.GPJ AMEC PORTLAND JUNE03.GDT 7/25/04

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LOG OF BORING
 MR-16

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AMEC 042218

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt						Flush-Mount Monument with Locking Cap
0-5		SM	Soft, brown SILT with some sand; dry.						Cement
5-10		SP	Loose, brown to gray, fine SAND with trace silt.						Casing (Schedule 80 PVC, 8.0-inch O.D.)
10-25			Dense SAND (possible GRAVEL contact). Harder drilling and bit binding up. Trace gravel; slightly moist.						Bentonite Chips
25-30		GW	Dense, gray-brown, small to medium, fine SANDY GRAVEL with trace large gravel/cobbles; wet.				▽		

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND_JUNE03.GDT 8/8/04

BORING METHOD: Air Rotary **ELEVATION REFERENCE:**
BOREHOLE DIAMETER: 14.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: IR T30 **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations **START CARD/TAG ID:**
LOGGED BY: B. Lary **DRILLING DATES:** 11/5/2003 - 12/1/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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LOG OF BORING
RGRW-1
 PAGE 1 OF 3

AMEC 042162

006757

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Basalt GRAVEL with quartz and other lithologies (5% or less); wet. Drilling dry due to high pressure. Interbedded fine SAND layers. Larger GRAVEL. Interbedded fine GRAVEL with sand. Large COBBLE; moist to wet. Dense, black SANDY GRAVEL with other lithologies (5-10%). Started adding water during drilling (approximately 5 GPM). Black SANDY GRAVEL with occasional finer layers. Less fine sediments. Turned off extra water. Relatively clear groundwater coming up.						<ul style="list-style-type: none"> Bentonite Chips Centralizer Casing (Schedule 80 PVC, 8.0-inch O.D.) 8-12 Colorado Silica Sand Upper Well Screen (Schedule 80 PVC, 8.0-inch O.D. with 0.020-inch slots)
50		GP	Larger GRAVEL (3.0-inch plus) with trace to some sand, basalt (90%), other lithologies (10%); wet. Water production increases. High groundwater production during drilling continues.						<ul style="list-style-type: none"> 20-40 Colorado Silica Sand Casing (Schedule 80 PVC, 8.0-inch O.D.)

ENVIR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNED03.GDT 8/9/04

BORING METHOD: Air Rotary
BOREHOLE DIAMETER: 14.0 (in)
DRILL RIG: IR T30
CONTRACTOR: Geo-Tech Explorations
LOGGED BY: B. Lary

ELEVATION REFERENCE:
GROUND SURFACE ELEVATION: NA
CASING ELEVATION: NA
START CARD/TAG ID:
DRILLING DATES: 11/5/2003 - 12/1/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

Cadet Manufacturing
 Vancouver, Washington
 3-61M-10135-C T3

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 7376 SW Durham Road
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 Fax +1 (503) 620-7892



**LOG OF BORING
 RGRW-1**

AMEC 042163

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GP	Black GRAVEL and COBBLES (3.0-inch plus). High water production. Difficult drilling.						<p>Casing (Schedule 80 PVC, 8.0-inch O.D.)</p> <p>20-40 Colorado Silica Sand</p> <p>Bentonite Chips</p> <p>6-9 Colorado Silica Sand</p> <p>Lower Well Screen (Schedule 80 PVC, 8.0-inch O.D. with 0.050-inch slots)</p> <p>Centralizer End Cap</p>
65			GRAVEL/PEBBLES (some 4.0-inch), basalt quartz (at least 85%).						
70		SP	Medium to fine SAND layer.						
72		GP	Black GRAVEL/COBBLES/PEBBLES (some 4.0-inch plus).						
75			Black GRAVEL/PEBBLES.						
80			Total depth = 80.0 feet below ground surface.						
85			NOTE: Vac truck cleared hole from 0.0-8.0 feet below ground surface to clear for utilities. Used Air Rotary with 14.0-inch casing using Tri-cone and button bit.						
90									

ENVR-WELL BORING REV2 3-61M-10135-C-T3.GPJ AMEC PORTLAND JUNE03.GDT 8/8/04

BORING METHOD: Air Rotary
 BOREHOLE DIAMETER: 14.0 (in)
 DRILL RIG: IR T30
 CONTRACTOR: Geo-Tech Explorations
 LOGGED BY: B. Lary

ELEVATION REFERENCE:
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID:
 DRILLING DATES: 11/5/2003 - 12/1/2003

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

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 3-61M-10135-C T3

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LOG OF BORING
 RGRW-1
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AMEC 042164

ENVR+WELL-BORING 4-61M-10135-RGRW 2004.GPJ AMEC PORTLAND.GDT 4/3/07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Basalt GRAVEL with quartz and other lithologies (5% or less); wet. Drilling dry due to high pressure.						
35			Interbedded fine SAND layers. Larger GRAVEL.						
40			Interbedded fine GRAVEL with sand. Large COBBLE; moist to wet.						
45			Dense, black SANDY GRAVEL with other lithologies (5-10%). Started adding water during drilling (approximately 5 GPM).						
50			Black SANDY GRAVEL with occasional finer layers. Less fine sediments. Turned off extra water. Relatively clear groundwater coming up.						
55		GP	Larger GRAVEL (3.0-inch plus) with trace to some sand, basalt (90%), other lithologies (10%); wet. Water production increases.						
60			High groundwater production during drilling continues.						

BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Rotasonic CONTRACTOR: Boart Longyear/Geo-Tech/Bruce LOGGED BY: B. Lary	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE00965/ALB959 DRILLING DATES: 09/15/2004 - 09/22/2004	REMARKS:
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Cadet Manufacturing 4-61M-10135	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-1A PAGE 2 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GP	Black GRAVEL and COBBLES (3.0-inch plus). High water production. Difficult drilling.						<p>Casing (Stainless Steel)</p> <p>20/40 Colorado Silica Sand (17 Bags)</p> <p>Bentonite Chips (3/8-inch, 2 Bags)</p> <p>20/40 Colorado Silica Sand (2 Bags)</p> <p>Native BACKFILL</p> <p>Well Screen (20-Slot Stainless Steel)</p>
65			GRAVEL/PEBBLES (some 4.0-inch), basalt quartz (at least 85%).						
70		SP	Medium to fine SAND layer.						
75		GP	Black GRAVEL/COBBLES/PEBBLES (some 4.0-inch plus).						
80			Black GRAVEL/PEBBLES.						
85									
90									

BORING METHOD: Sonic	ELEVATION REFERENCE: NA
BOREHOLE DIAMETER: 8.0 (in)	GROUND SURFACE ELEVATION: NA
DRILL RIG: Rotosonic	CASING ELEVATION: NA
CONTRACTOR: Boart Longyear/Geo-Tech/Bruce	START CARD/TAG ID: RE00965/ALB959
LOGGED BY: B. Lary	DRILLING DATES: 09/15/2004 - 09/22/2004

REMARKS:

ENVR+WELL-BORING 4-61M-10135-RGRW 2004.GPJ AMEC PORTLAND.GDT 4/3/07

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**LOG OF BORING
RGRW-1A**

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ENVR+WELL-BORING 4-61M-10135-RGRW 2004.GPJ AMEC PORTLAND.GDT 4/3/07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GP	Total depth = 98.33 feet below ground surface.						
95									

BORING METHOD: Sonic BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: Rotasonic CONTRACTOR: Boart Longyear/Geo-Tech/Bruce LOGGED BY: B. Lary	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE00965/ALB959 DRILLING DATES: 09/15/2004 - 09/22/2004	REMARKS:
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Cadet Manufacturing 4-61M-10135	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-1A PAGE 4 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt.						
0-5		SM	Brown SANDY SILT; dry.						
5-10									
10-15									
15-20									
20-25		SW	Contact with GRAVEL at 20.0 feet below ground surface. Slower drilling rate. Coarse, angular to subangular, well-graded GRAVELLY SAND, some silt, fine gravel (< 1/2-inch diameter). Well-graded, some gravel cuttings (< 1.0-inch diameter). No cuttings return from 24.0-29.0 feet below ground surface.						
25-30									
30		GW	Fine to coarse, rounded to subrounded, well-graded GRAVEL (< 1.0-inch diameter) with some sand (20-30%); wet.						

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: B. Lary/M. Kohlbecker **DRILLING DATES:** 04/19/2004 - 05/11/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-2 PAGE 1 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Fine, rounded to subrounded, well-graded GRAVEL (< 2.0-inch diameter) with sand (30%) and fines (5-10%); wet.						<p>Well Screen (Schedule 80 PVC, 12.0-inch I.D. with 0.020-inch slots)</p> <p>8/12 Colorado Silica Sand (Surged During Air-Lift Development)</p> <p>Casing (Schedule 80 PVC, 12.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand (Surged During Air-Lift Development)</p> <p>Bentonite Chips</p>
			Fine, rounded to subrounded, well-graded SANDY GRAVEL, (sand, 40%); wet.						
35			SAND content increases to 50%.						
		SW	Medium to coarse, well-graded SAND. Poor sample return.						
40		GP	Fine and coarse GRAVEL (50%) layers starting at approximately 40.0 feet below ground surface (cuttings). Saturated, moderate production.						
		SW	Coarse GRAVEL. Coarse to medium, subangular to rounded, well-graded GRAVELLY SAND, fine gravel (20%), basalt, plagioclase feldspar, quartzite.						
45		SP	Coarse, angular to subangular, poorly graded SAND (90-95%) with trace fine gravel (5-10%); saturated.						
50			Aquifer producing more water.						
55			Softer, faster drilling at 58.0 feet below ground surface. Producing less water.						
60			Softer, faster drilling at 58.0 feet below ground surface. Producing less water.						

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: B. Lary/M. Kohlbecker **DRILLING DATES:** 04/19/2004 - 05/11/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

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 4-61M-10135-L T3

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LOG OF BORING
RGRW-2
 PAGE 2 OF 4

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		SP	Coarse, subangular to subrounded, poorly graded SAND; saturated. Slower drilling at 64.0 feet below ground surface. Trace gravel. Producing copious amounts of water at 66.0 feet below ground surface (probably due to air being turned off).						<p>Casing (Schedule 80 PVC, 12.0-inch I.D.)</p> <p>Bentonite Chips (3/4-inch, Baroid Hole Plug)</p> <p>8/12 Colorado Silica Sand (Surged During Air-Lift Development)</p> <p>Well Screen (Schedule 80 PVC, 12.0-inch I.D. with 0.050-inch slots)</p>
65									
70		SW	Medium, subangular to subrounded, well-graded SAND (60%) with some coarse sand (30%), trace fine gravel (10%); saturated. Easier drilling. Coarse (80%) to medium (20%), angular to subangular, well-graded SAND; saturated. Not very productive at 78.0 feet below ground surface. Trace gravel. Hard drilling at 81.0 feet below ground surface. Easier drilling immediately below 81.0 feet below ground surface. Low water production.						
75									
80									
85									
90									

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: B. Lary/M. Kohlbecker **DRILLING DATES:** 04/19/2004 - 05/11/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

<p>Cadet Manufacturing Co. Vancouver, Washington</p> <p>4-61M-10135-L T3</p>	<p>AMEC Earth and Environmental</p>  <p>Tel Fax</p>	<p>LOG OF BORING RGRW-2</p> <p>PAGE 3 OF 4</p>
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SW	Easy drilling. Low water production.						<p>Well Screen (Schedule 80 PVC, 12.0-inch I.D. with 0.050-inch slots)</p> <p>8/12 Colorado Silica Sand (Surged During Air-Lift Development)</p> <p>Centralizer End Cap</p> <p>Slough/Heave (Fine Sand to Very Fine Gravel)</p>
95		SP	Medium (90%) with some coarse (10%), poorly graded SAND; saturated.		337				
100		SW	Medium, subrounded to subangular, well-graded SAND with trace gravel (5-10%), trace fine sand, clasts of basalt, quartz, and plagioclase feldspar; saturated. Fine SAND at 104.0 feet below ground surface.		364				
105		SP	Medium to fine (50%-50%), poorly graded SAND; saturated. Total depth = 110.0 feet below ground surface.		183				
110									
115									
120									

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: B. Lary/M. Kohlbecker **DRILLING DATES:** 04/19/2004 - 05/11/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-2 PAGE 4 OF 4
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0 DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt (3.0-inch layer). SILTY GRAVEL (FILL).						Concrete Utility Vault
5			Light brown, slightly plastic CLAYEY SILT with medium sand (< 5%), some fine sand.						Concrete
10		SW	Change in penetration rate at 11.5 feet below ground surface.						Casing (Schedule 80 PVC, 12.0-inch I.D.)
15			Dark gray, medium (60%) to coarse (30%), well-graded SAND with rounded to subrounded gravel (5%, < 1/2-inch diameter), basalt (90%) with some plagioclase feldspar and minor quartz, trace fine sand (5%).						Bentonite Chips (3/4-inch, Baroid Hole Plug)
20		SW	Dark gray, medium (80%) to fine (18%), well-graded SAND with trace coarse sand (2%), basalt (90%) with plagioclase feldspar and quartz. Gravel fragments (> 1.0-inch diameter) present in cuttings at 21.0 feet below ground surface. GRAVEL (30-50%) in cuttings below 22.0 feet below ground surface. Alternating coarse to medium sand and coarse to fine gravel layers.						
25			Dark gray, medium (65%), well-graded GRAVELLY SAND with trace coarse (5%) and fine sand (5%), fine, subrounded to subangular gravel (25%, < 3/4-inch diameter).						8/12 Colorado Silica Sand (Surged During Air-Lift Development)
30									Centralizer Well Screen

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: M. Kohlbecker **DRILLING DATES:** 04/22/2004 - 05/05/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

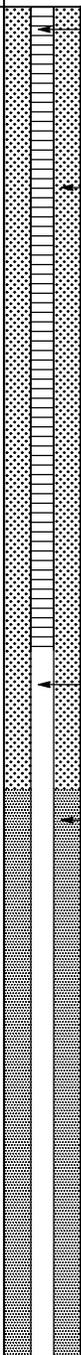
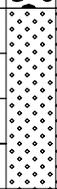
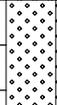
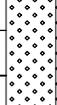
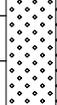
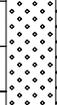
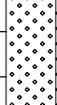
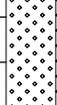
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 4-61M-10135-L T3

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LOG OF BORING
RGRW-3
 PAGE 1 OF 4

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW							 <p>Well Screen (Schedule 80 PVC, 12.0-inch I.D. with 0.020-inch slots)</p> <p>8/12 Colorado Silica Sand (Surged During Air-Lift Development)</p> <p>Casing (Schedule 80 PVC, 12.0-inch I.D.)</p> <p>20/40 Colorado Silica Sand (Surged During Air-Lift Development)</p>
		GW	Coarse to fine GRAVEL layers below 32.0 feet below ground surface. Difficulty advancing through gravel.						
35			Difficulty advancing through GRAVEL at 34.0 feet and 35.0 feet below ground surface. Dark gray, coarse, rounded to subrounded, well-graded SANDY GRAVEL (60%, approximately 1.0-inch diameter), coarse sand (30%), fine and medium sand (10%).						
		SW	Penetration rate increases at 37.0 feet below ground surface (less coarse material in cuttings).						
40			Medium (50%) to fine (25%) to coarse (25%), well-graded SAND.						
		SW	Penetration rate decreases at 41.0 feet below ground surface. Difficulty advancing drill. Penetration rate increases at 43.0 feet below ground surface.						
45			Medium (> 30%) to fine (30%) to coarse (20%), poorly sorted GRAVELLY SAND, fine, subrounded to rounded gravel (20%, < 3/4-inch diameter). Penetration rate increases at 47.0 feet below ground surface. Less gravel in cuttings.						
50			Medium (50%) to fine (20%), poorly sorted GRAVELLY SAND, coarse, subrounded to rounded gravel (30%). Coarse GRAVEL observed in cuttings at 52.0 feet below ground surface. Penetration rate decreases dramatically at 54.0 feet below ground surface.						
55		SW	Medium (70%) to coarse (10%) to fine (10%), well-graded SAND with trace gravel (10%). Significant amounts of coarse GRAVEL in cuttings from 55.0-57.5 feet below ground surface.						
60									

BORING METHOD: Air Rotary	ELEVATION REFERENCE: NA
BOREHOLE DIAMETER: 16.0 (in)	GROUND SURFACE ELEVATION: NA
DRILL RIG: NA	CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Joel	START CARD/TAG ID: NA
LOGGED BY: M. Kohlbecker	DRILLING DATES: 04/22/2004 - 05/05/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-3 PAGE 2 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		SW	Medium (70%) to coarse (10%) to fine (10%), well-graded SAND with rounded to subrounded gravel (10%). Significant GRAVEL in cuttings from 61.0-63.0 feet below ground surface.						 Casing (Schedule 80 PVC, 12.0-inch I.D.) 20/40 Colorado Silica Sand (Surged During Air-Lift Development) Bentonite Chips (3/4-inch, Baroid Hole Plug) 8/12 Colorado Silica Sand (Surged During Air-Lift Development) Centralizer Well Screen (Schedule 80 PVC, 12.0-inch I.D. with 0.050-inch slots)
65			Medium (80%) to coarse (10%), well-graded SAND with fine, subrounded to rounded gravel (5-10%). Aquifer producing copious amounts of water at 65.0 feet below ground surface. Medium SAND observed in cuttings. Penetration rate increases at 66.5 feet below ground surface.						
70			Medium (60%) to fine (20%) to coarse (20%), well-graded SAND.						
75			Fine (50%) to medium (50%) with trace coarse, well-graded SAND.						
80			Fine (50%) to medium (50%), well-graded SAND.						
85		SP	Fine (90%) to medium (10%), poorly graded SAND.						

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: M. Kohlbecker **DRILLING DATES:** 04/22/2004 - 05/05/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-3 PAGE 3 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SP	Moderate production rate from 91.0-93.0 feet below ground surface.						<p>Well Screen (Schedule 80 PVC, 12.0-inch I.D. with 0.050-inch slots)</p> <p>8/12 Colorado Silica Sand (Surged During Air-Lift Development)</p> <p>End Cap</p> <p>Hard Slough (Sand/Gravel)</p>
		SW	Becomes gravelly. Slower penetration rate at 92.0 feet below ground surface.						
95		GW	Lower water production and very hard drilling at 94.0 feet below ground surface. (Drilling through boulder.) Increase in water production at 94.25 feet below ground surface. Fine (40%) to medium (40%) to coarse (20%) GRAVELLY SAND with silt and clay (5%).						
100		GW	Fine (60%) to coarse (20%), angular to subangular SANDY GRAVEL with some cobble-size clasts consisting of basalt with other lithics (40%, quartzite, altered volcanics, granite, and sandstone) - Troutdale Formation (TGA). Water production up to approximately 250 gpm. Water is clear. Grades to moderately cemented at 100.0 feet below ground surface.						
			Total depth = 101.1 feet below ground surface.						
105									
110									
115									
120									

BORING METHOD: Air Rotary **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: NA **CASING ELEVATION:** NA
CONTRACTOR: Geo-Tech Explorations/Joe **START CARD/TAG ID:** NA
LOGGED BY: M. Kohlbecker **DRILLING DATES:** 04/22/2004 - 05/05/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character/resistance and visual observations of return drill cuttings.

ENVR+WELL-BORING 4-61M-10135-L T3.GPJ AMEC PORTLAND.GDT 4/3/07

Cadet Manufacturing Co. Vancouver, Washington 4-61M-10135-L T3	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-3 PAGE 4 OF 4
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (1.5-inch layer) underlain by base coarse GRAVEL (FILL, 2.0-inch layer).						Concrete Utility Vault (5.0 Feet)
0 - 12		ML	Medium stiff, brown CLAYEY SILT with trace organics (1-5% rootlets, plant debris), moderately plastic; moist.						Bentonite Chips
12 - 17		SM	Medium stiff, brown SILT with some clay, low plasticity; moist.						Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)
17 - 20		SM	Loose to medium dense, light brown, fine, poorly graded SILTY SAND; moist.						20/40 Colorado Silica Sand
20 - 23		ML	Medium stiff, brown SILT with some clay, low plasticity; moist.				▼		8/12 Colorado Silica Sand
23 - 25		SM-SW	Harder drilling at 23.0 feet below ground surface. Dense, gray, fine to coarse, well-graded SILTY GRAVELLY SAND (40%), gravel (30%), silt (30%); wet.				▽		Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.020-inch slots)
25 - 29		SP	Dense, gray, coarse, poorly graded GRAVELLY SAND (55-60%), gravel (30-40%), trace medium to fine sand and silt (approximately 10%).						
29 - 30		GW	Becomes gravelly.						

BORING METHOD: Dual Rotary Air **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Formost DR24 **CASING ELEVATION:** NA
CONTRACTOR: Boart Longyear/Geo-Tech **START CARD/TAG ID:** RE01063/ALB972
LOGGED BY: J. Fassio **DRILLING DATES:** 11/06/2004 - 12/18/2004

REMARKS:
 Conventional Circulation

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Very dense, gray, fine to coarse, well-graded GRAVEL (70-75%) with some sand (25%), trace silt, quartzite and chert clasts (10-15%), basaltic gravel (85%).						<p>8/12 Colorado Silica Sand</p> <p>Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.020-inch slots)</p> <p>Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)</p> <p>20/40 Colorado Silica Sand</p>
35			Easier drilling at 35.0 feet below ground surface.						
40		SP	Medium dense to dense, coarse, poorly graded SAND (70%) with some fine gravel (15-20%), trace fine to medium sand; wet.						
45		GW	Dense, gray, fine to coarse, angular to rounded, well-graded SANDY GRAVEL (60-75%), sand (25-40%). Variable sand and gravel content; appears to be layered sand and gravel.						
50									
55		SW	Medium dense to dense, gray, medium to coarse, well-graded GRAVELLY SAND (60%), gravel (40%).						
60		GW	Harder drilling at 59.5 feet below ground surface.						

BORING METHOD: Dual Rotary Air **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Formost DR24 **CASING ELEVATION:** NA
CONTRACTOR: Boart Longyear/Geo-Tech **START CARD/TAG ID:** RE01063/ALB972
LOGGED BY: J. Fassio **DRILLING DATES:** 11/06/2004 - 12/18/2004

REMARKS:
Conventional Circulation

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW	Dense to very dense, gray, fine to coarse, well-graded SANDY GRAVEL, coarse sand, trace silt.						<p>20/40 Colorado Silica Sand</p> <p>Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)</p> <p>Bentonite Chips</p> <p>20/40 Colorado Silica Sand</p> <p>Natural Sand Pack</p> <p>Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.050-inch slots)</p>
		SP	Dense, gray, coarse, poorly graded SAND, some gravel (15-20%), trace silt.						
65		GW	Dense, gray, fine to coarse, well-graded, subangular to subrounded SANDY GRAVEL (50-60%), sand (40-50%), trace silt (1%).						
70-75			Harder drilling at 74.0 feet below ground surface due to cobbles and boulders. Water production increases dramatically. Sand becomes fine to coarse, well-graded. Water production decreases from 77.0-79.0 feet below ground surface.						
75-80		GW	Harder drilling at 79.0 feet below ground surface. Water production increases. Dense to very dense, gray, fine to coarse, subangular to subrounded GRAVEL, some to trace coarse sand, occasional cobble layers, predominately basaltic clasts (80-85%), other lithics (15-20%).						
80-85			Easier drilling at 84.5-86.0 feet below ground surface. Water production increases dramatically at 85.0 feet below ground surface. Produced water at rate of 300 gpm from 85.0-90.0 feet below ground surface. Harder drilling at 86.0 feet below ground surface.						
85-90			Easier drilling at 84.5-86.0 feet below ground surface. Water production increases dramatically at 85.0 feet below ground surface. Produced water at rate of 300 gpm from 85.0-90.0 feet below ground surface. Harder drilling at 86.0 feet below ground surface.						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01063/ALB972 DRILLING DATES: 11/06/2004 - 12/18/2004	REMARKS: Conventional Circulation
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		GW							<p>Natural Sand Pack</p> <p>Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.050-inch slots)</p> <p>End Cap</p>
95			COBBLES at 103.0 feet below ground surface.						
100									
105			Total depth = 105.0 feet below ground surface.						
110									
115									
120									

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01063/ALB972 DRILLING DATES: 11/06/2004 - 12/18/2004	REMARKS: Conventional Circulation
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0 DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (2.0-inch layer) underlain by dense SILTY SANDY GRAVEL (FILL); moist.						
		ML	Medium stiff, dark brown SILT with some clay, trace fine sand and gravel; moist.						
5									
10			Trace clay at 10.0 feet below ground surface.						
15		SM	Medium dense, light brown, very fine, poorly graded SAND with some silt; moist.						
20			Poor cutting return, driller used water at pumping rate of 30 gpm from 15.0-20.0 feet below ground surface.						
25		SW	Dense, gray, fine to coarse, well-graded GRAVELLY SAND (55-60%), gravel (30-35%), trace silt (10%).						
27		GW	Harder drilling at 27.0 feet below ground surface.						
30									

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01130/ALB723 DRILLING DATES: 01/26/2005 - 02/04/2005	REMARKS: Conventional Circulation
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Very dense, gray, fine to coarse, well-graded SANDY GRAVEL (50-55%), medium to coarse sand (35-40%), some cobbles and trace silt (5-10%).						
35			Boulder or large cobble at 35.0 feet below ground surface.						
40									
45			Gravel content increases to 60% at 45.0 feet below ground surface.						
50		SW	Very dense, gray, fine to coarse, well-graded SAND with trace gravel and cobbles.						
55		GW	Very dense, gray, fine, well-graded SANDY GRAVEL (60%), medium to coarse sand (20%), non-volcanic lithic clasts (quartzite, chert, metamorphics, granite, 10-15%), silt and clay (< 5%), trace cobbles and coarse gravel. Larger cobbles or boulder at 54.5 feet below ground surface. Low cutting return at 55.0-60.0 feet below ground surface.						
60									

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01130/ALB723 DRILLING DATES: 01/26/2005 - 02/04/2005	REMARKS: Conventional Circulation
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW							<p>20/40 Colorado Silica Sand</p> <p>Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)</p> <p>Bentonite Chips (3/8-inch)</p> <p>20/40 Colorado Silica Sand</p> <p>8/12 Colorado Silica Sand</p> <p>Centralizer</p> <p>Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.050-inch slots)</p>
		SW	Easier drilling at 63.0-65.0 feet below ground surface.						
65		GW	Dense, gray, fine to coarse, well-graded GRAVELLY SAND (65%), gravel (30%), trace cobbles and silt (5-10%).						
		GW	Drilling without water from 67.0-75.0 feet below ground surface.						
70		GW	Very dense, gray, fine to coarse, well-graded SANDY GRAVEL (50%), fine to coarse sand (40%), trace cobbles and silt (10%).						
75		GW	Gravel content increases to 70%; higher coarse gravel content (30% coarse, 70% fine).						
80		SW	Easier drilling at 81.0 feet below ground surface.						
85		GW	Medium dense, gray, fine to coarse, well-graded SAND with some fine to coarse, rounded to subrounded gravel (25%), non-volcanic lithic clasts (quartzite, metamorphics, granite, 10-15%), trace silt and clay.						
90									

BORING METHOD: Dual Rotary Air	ELEVATION REFERENCE: NA
BOREHOLE DIAMETER: 16.0 (in)	GROUND SURFACE ELEVATION: NA
DRILL RIG: Formost DR24	CASING ELEVATION: NA
CONTRACTOR: Boart Longyear/Geo-Tech	START CARD/TAG ID: RE01130/ALB723
LOGGED BY: J. Fassio	DRILLING DATES: 01/26/2005 - 02/04/2005

REMARKS:
Conventional Circulation

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SW	Gravel content decreases to 10-15% (trace). Silt content increases to 15-20%.						
95			Fine to medium SAND with gravel (5-10%).						
100									
			Total depth = 102.0 feet below ground surface.						
105									
110									
115									
120									

BORING METHOD: Dual Rotary Air **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Formost DR24 **CASING ELEVATION:** NA
CONTRACTOR: Boart Longyear/Geo-Tech **START CARD/TAG ID:** RE01130/ALB723
LOGGED BY: J. Fassio **DRILLING DATES:** 01/26/2005 - 02/04/2005

REMARKS:
 Conventional Circulation

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0 DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt (2.0-inch layer). Medium stiff to stiff, brown CLAYEY SILT with some coarse, subrounded to rounded gravel and cobbles, trace fine sand; moist to dry.						
5									
10									
15		SM	Dense, brown, fine, well-graded SILTY SAND with some subrounded to rounded gravel.						
20			Dense, gray, medium to coarse, well-graded SAND with some subrounded to subangular gravel (10%) and silt.						
25		GW	Very dense, fine to coarse, well-graded SANDY GRAVEL (50-55%), coarse to medium sand (30-35%), trace silt (5-10%).						
27.0-30.0		SW	Easier drilling from 27.0-30.0 feet below ground surface. Dense, medium to coarse, well-graded SAND with trace gravel.						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01066/ALB974 DRILLING DATES: 10/28/2004 - 11/09/2004	REMARKS: Conventional Circulation Cleared hole with air knife from 0.0-5.0 feet below ground surface. Driller had to use water to prevent clogging in discharge hose above water table.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Dense, gray, fine to coarse, well-graded SANDY GRAVEL (55-65%), coarse to medium sand (25-30%), trace silt (5-20%).						
35		GM	Stiff, gray GRAVELLY SILT. (Low cuttings return).				▼		
40		SP	Dense, gray, coarse, poorly graded SAND with trace gravel (5-10%) and silt.						
45		GW	Very dense, gray, fine to coarse, subrounded to subangular, well-graded SANDY GRAVEL (55-60%), medium to coarse sand (40%), trace silt, basaltic clasts (80%), exotic clasts (quartzite, other metamorphic rocks, igneous clasts, 20%).						
55			Gravel content decreases to 45-50% at 55.0 feet below ground surface.						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01066/ALB974 DRILLING DATES: 10/28/2004 - 11/09/2004	REMARKS: Conventional Circulation Cleared hole with air knife from 0.0-5.0 feet below ground surface. Driller had to use water to prevent clogging in discharge hose above water table.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW	Gravel becomes predominately fine at 60.0 feet below ground surface. Low water production.						<p>8/12 Colorado Silica Sand</p> <p>Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.020-inch slots)</p> <p>Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)</p> <p>20/40 Colorado Silica Sand</p>
65		SW	Dense, gray, medium to coarse, well-graded SAND with some fine, rounded to subrounded gravel (20-30%) and trace silt.						
70			Fine sand content increases at 70.0 feet below ground surface.						
75		SW-SM	Medium to dense (based on drilling rate), fine to medium, well-graded GRAVELLY SAND, predominately fine, rounded to subrounded gravel (40%), some silt (10-15%).						
80		GW	Slower drilling from 78.0-82.5 feet below ground surface. Very dense, dark gray, fine to coarse, subangular to subrounded SANDY GRAVEL with large cobbles, coarse sand (25-30%).						
85		SW	Easier drilling at 82.5 feet below ground surface. Dense, gray, medium to coarse, well-graded SAND with some gravel (15-25%) and trace silt. Water production increases from 85.0-90.0 feet below ground surface. Low cuttings return at 88.0-92.0 feet below ground surface.						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01066/ALB974 DRILLING DATES: 10/28/2004 - 11/09/2004	REMARKS: Conventional Circulation Cleared hole with air knife from 0.0-5.0 feet below ground surface. Driller had to use water to prevent clogging in discharge hose above water table.
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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SW	Water production decreases at 90.0 feet below ground surface.						
95		GW	Dense, gray, fine to coarse, subrounded to rounded GRAVEL (65-70%), some sand (25%) and trace silt (5-15%).						
100		SW	Dense, gray, fine to coarse, well-graded SAND with some gravel (25-30%) and trace silt.						
105		GW	Harder drilling at 106.0 feet below ground surface. Very dense, gray, well-graded SANDY GRAVEL (50-60%), trace silt and cobbles, exotic clasts (quartzite, metamorphic rocks, and granitic clasts, 40-50%).						
110		SW	Harder drilling at 106.0 feet below ground surface. Very dense, gray, well-graded SANDY GRAVEL (50-60%), trace silt and cobbles, exotic clasts (quartzite, metamorphic rocks, and granitic clasts, 40-50%).						
120		SW	Harder drilling at 106.0 feet below ground surface. Very dense, gray, well-graded SANDY GRAVEL (50-60%), trace silt and cobbles, exotic clasts (quartzite, metamorphic rocks, and granitic clasts, 40-50%).						
			Total depth = 120.3 feet below ground surface.						End Cap

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BORING METHOD: Dual Rotary Air	ELEVATION REFERENCE: NA
BOREHOLE DIAMETER: 16.0 (in)	GROUND SURFACE ELEVATION: NA
DRILL RIG: Formost DR24	CASING ELEVATION: NA
CONTRACTOR: Boart Longyear/Geo-Tech	START CARD/TAG ID: RE01066/ALB974
LOGGED BY: J. Fassio	DRILLING DATES: 10/28/2004 - 11/09/2004

REMARKS:
 Conventional Circulation
 Cleared hole with air knife from 0.0-5.0 feet below ground surface. Driller had to use water to prevent clogging in discharge hose above water table.

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0 DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (1.5-inch layer) underlain by base coarse GRAVEL (FILL, 3.0-inch layer).						
0-5		ML	Medium stiff, brown SANDY SILT with some clay, low plasticity; dry to moist. Stiff, brown SILT with some clay, low plasticity; moist.						
5-20		GM	Low cuttings return and no samples from 6.0-15.0 feet below ground surface. Silt sticking on bit or plugging discharge.						
20-25		GM	Medium dense to dense, gray, fine to coarse, subrounded to subangular SILTY GRAVEL (50-55%), silt (30%), some sand (20%) and trace clay (5%); saturated.						
25-30		GW	Silt content decreases. Dense, gray, fine, rounded to subangular, well-graded SANDY GRAVEL (50-60%), gravel clasts (quartzite, chert, and metamorphic rocks, 20-35%), sand (40%), silt (10%), trace clay. Harder drilling at 27.0-30.0 feet below ground surface due to cobbles and boulders.						

BORING METHOD: Dual Rotary Air **ELEVATION REFERENCE:** NA
BOREHOLE DIAMETER: 16.0 (in) **GROUND SURFACE ELEVATION:** NA
DRILL RIG: Formost DR24 **CASING ELEVATION:** NA
CONTRACTOR: Boart Longyear/Geo-Tech **START CARD/TAG ID:** RE01065/ALB973
LOGGED BY: J. Fassio **DRILLING DATES:** 11/04/2004 - 11/16/2004

REMARKS:
 Conventional Circulation
 Cleared hole with air knife from 0.0-5.0 feet below ground surface.

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ENVR+WELL-BORING 4-61M-10135-RGRW 2004.GPJ AMEC PORTLAND.GDT 4/3/07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		SW	Medium dense to dense, medium to coarse, well-graded GRAVELLY SAND (65%), gravel (30-35%), trace silt (5%).						<p>8/12 Colorado Silica Sand</p> <p>Well Screen (Stainless Steel #316, 12.0-inch O.D. with 0.020-inch slots)</p> <p>Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)</p> <p>20/40 Colorado Silica Sand</p>
35		GP	Medium dense to dense, fine to coarse GRAVEL (75%), some coarse to fine sand (15-20%), silt (<5%).						
40		SP	Medium dense, gray, coarse, poorly graded SAND with some fine, rounded to subangular gravel (10-15%) and trace medium and fine sand.						
45		SW	Dense to very dense, gray, medium to coarse, well-graded GRAVELLY SAND, fine to coarse gravel (40%), cobbles and trace silt. Harder drilling from 45.0-49.0 feet below ground surface.						
50		SP	Gravel content decreases.						
55		SP	Medium dense, gray, coarse, poorly graded SAND with trace gravel.						
60		GW	Dense, gray, fine to coarse, rounded to subangular, well-graded SANDY GRAVEL (60-65%) with trace silt.						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01065/ALB973 DRILLING DATES: 11/04/2004 - 11/16/2004	REMARKS: Conventional Circulation Cleared hole with air knife from 0.0-5.0 feet below ground surface.
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Cadet Manufacturing 4-61M-10135	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-7 PAGE 2 OF 4
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ENVR+WELL-BORING 4-61M-10135-RGRW 2004.GPJ AMEC PORTLAND.GDT 4/3/07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
60		GW							<p>20/40 Colorado Silica Sand</p> <p>Casing (Stainless Steel #316, 12.0-inch O.D., 0.25-inch wall thickness)</p> <p>Bentonite Chips</p>
65		SW	Medium dense to loose, gray, medium to coarse, well-graded SAND with some fine to coarse gravel (25%), trace silt and fine sand.						
70		SW	Silt and fine sand content increases; faster drilling at 70.0 feet below ground surface. Loose, gray, fine to medium, well-graded SAND with some fine to coarse gravel (10-15%) and silt.						
75		SP	Loose, gray, fine, poorly graded SAND with some silt (10%), trace gravel (5%) and medium to coarse sand.						
85			<p>Silt content increases to 15% at 85.0 feet below ground surface.</p> <p>Gravel content decreases from 88.0-91.0 feet below ground surface.</p>						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01065/ALB973 DRILLING DATES: 11/04/2004 - 11/16/2004	REMARKS: Conventional Circulation Cleared hole with air knife from 0.0-5.0 feet below ground surface.
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Cadet Manufacturing 4-61M-10135	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-7 PAGE 3 OF 4
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ENVR+WELL-BORING 4-61M-10135-RGRW 2004.GPJ AMEC PORTLAND.GDT 4/3/07

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
90		SP							
		SP-GP	Loose to medium dense, brown, fine, poorly graded GRAVELLY SAND, fine to coarse gravel (approximately 30%) and trace silt (10-15%).						
95		GW	Water production increases at 95.0 feet below ground surface.						
			Medium dense to dense, gray, fine, rounded to subrounded, well-graded SANDY GRAVEL (60-65%), coarse to medium sand (45-50%), basalt/volcanic clasts (80%), other lithics (quartzite, chert, igneous clasts, 20%), trace silt (< 5%).						
			Water production decreases from 99.0-108.0 feet below ground surface.						
100		GW	Harder drilling at 102.0 feet below ground surface. Gravel content increases.						
			Very dense, gray, fine to coarse, subrounded to subangular, poorly graded GRAVEL (65%) with some fine to coarse sand (30-35%), silt (40%), trace cobbles.						
			Non-volcanic clasts (quartzite, chert, igneous) increase to 30-40%.						
105			Water production increases from 108.0-115.0 feet below ground surface.						
110									
115			Total depth = 115.0 feet below ground surface.						

BORING METHOD: Dual Rotary Air BOREHOLE DIAMETER: 16.0 (in) DRILL RIG: Formost DR24 CONTRACTOR: Boart Longyear/Geo-Tech LOGGED BY: J. Fassio	ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: RE01065/ALB973 DRILLING DATES: 11/04/2004 - 11/16/2004	REMARKS: Conventional Circulation Cleared hole with air knife from 0.0-5.0 feet below ground surface.
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Cadet Manufacturing 4-61M-10135	AMEC Earth and Environmental Tel Fax		LOG OF BORING RGRW-7 PAGE 4 OF 4
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SOIL GAS WELLS

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						Flush-Mount Morris Monument
			Brown SANDY SILT to SILTY SAND; moist to dry.						Hydrated Bentonite Chips
5									Well Casing
									Hydrated Bentonite Casing Seal
10									10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
									Hydrated Bentonite Casing Seal
									Well Casing
15									10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
									Hydrated Bentonite Casing Seal
									Well Casing
20			Total depth = 20.0 feet below ground surface.						10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
25									

ENVR+WELL_BORINGS REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 10/28/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:

BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA

DRILL RIG: CASING ELEVATION: NA

CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT807

LOGGED BY: B. Lary DRILLING DATES: 1/19/2004 - 1/19/2004

REMARKS:

No discrete soil samples collected. Lithology logged by drilling character and resistance.

Cadet Manufacturing, Inc.

4-61M-10135-J T5

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LOG OF BORING
SG-1

PAGE 1 OF 1

AMEC 10263

0-10
1-10
2-10

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (approximately 3/4-inch layer) underlain by brown-gray, rounded, well-graded GRAVEL FILL (base course); dry SILT.						Flush-Mount Morris Monument
0-5		ML	Soft, medium reddish brown SILT, some clay; dry.		0.0				Hydrated Bentonite Chips Well Casing Hydrated Bentonite Casing Seal
5-10			Soft, medium reddish brown SILT, flecks of mica; dry.		0.0				10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 0.020-inch slots) End Cap Hydrated Bentonite Casing Seal Well Casing
10-15			Soft, medium red-brown SILT, flecks of mica; dry.						10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 0.020-inch slots) End Cap Hydrated Bentonite Casing Seal Well Casing
15-20			Total depth = 20.0 feet below ground surface.						10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 0.020-inch slots) End Cap
20-25									
BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA DRILL RIG: CASING ELEVATION: NA CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT804 LOGGED BY: T. Johnson DRILLING DATES: 1/16/2004 - 1/16/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.					
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ENVR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 10/28/04

AMEC 10265

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		ML	Asphalt (1.0-inch layer) underlain by rounded, well-sorted GRAVEL Fill (base course). SILT.						
5			Brown SILT, flecks of mica; dry.		1.7				
10			Brown SILT, flecks of mica; dry. SILT; damp.		0.0				
15			Brown SILT; damp.		0.2				
20		GW	GRAVEL in silt matrix encountered at 19.0 feet below ground surface. Total depth = 20.0 feet below ground surface.		4.1				
25									

ENVR-WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND_JUNE03.GDT 10/28/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:
BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT806
LOGGED BY: T. Johnson DRILLING DATES: 1/16/2004 - 1/16/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character and resistance.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (approximately 1.0-inch layer) underlain by brown to gray, well-rounded, well-graded GRAVEL FILL (base course).						Flush-Mount Morris Monument
		GC	Dark gray, well-graded GRAVEL.						Hydrated Bentonite Chips
		ML- SM	Dark gray SILT.						Well Casing
5			Medium stiff, tan-brown SILTY CLAY.			0.0			Hydrated Bentonite Casing Seal
			Soft, medium reddish brown SILT, some clay; moist.						10-20 Colorado Silica Sand
10			Medium stiff, brown SILT to very fine SANDY SILT.						8-12 Colorado Silica Sand
						0.0			Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
									Hydrated Bentonite Casing Seal
									Well Casing
									10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
		SM	Moist.						Hydrated Bentonite Casing Seal
									Well Casing
									10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
20			Total depth = 20.0 feet below ground surface.						

ENVR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 10/28/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:
BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT802
LOGGED BY: T. Johnson DRILLING DATES: 1/15/2004 - 1/15/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character and resistance.

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4-61M-10135-J T5

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LOG OF BORING
SG-5

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						Flush-Mount Morris Monument
0 - 1.5			Brown SANDY SILT, dry.						Hydrated Bentonite Chips
1.5 - 5			Grades to SILTY SAND.						Well Casing
5 - 13									Hydrated Bentonite Casing Seal
13 - 15			GRAVEL (according to driller).						10-20 Colorado Silica Sand
15 - 17			GRAVELLY SAND to SANDY GRAVEL; dry.						8-12 Colorado Silica Sand
17 - 18									Well Screen (Schedule 40 PVC, 0.020-inch slots)
18 - 19									End Cap
19 - 20									Hydrated Bentonite Casing Seal
20 - 21									Well Casing
21 - 22									10-20 Colorado Silica Sand
22 - 23									8-12 Colorado Silica Sand
23 - 24									Well Screen (Schedule 40 PVC, 0.020-inch slots)
24 - 25									End Cap
25 - 26									Hydrated Bentonite Casing Seal
26 - 27									Well Casing
27 - 28									10-20 Colorado Silica Sand
28 - 29									8-12 Colorado Silica Sand
29 - 30									Well Screen (Schedule 40 PVC, 0.020-inch slots)
30 - 31									End Cap
31 - 32									
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98 - 99									
99 - 100									
BORING METHOD: Hollow Stem Auger			ELEVATION REFERENCE:			REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.			
BOREHOLE DIAMETER: 12.0 (in)			GROUND SURFACE ELEVATION: NA						
DRILL RIG:			CASING ELEVATION: NA						
CONTRACTOR: Geo-Tech Explorations/Arturo			START CARD/TAG ID: R64586/AKT811						
LOGGED BY: B. Lary			DRILLING DATES: 1/20/2004 - 1/20/2004						
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						 AMEC 10269			
						PAGE 1 OF 1			

ENVR+WELL BORING REV2 4-61M-10135-J T5 GP.J AMEC PORTLAND JUNE03.GDT 10/28/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt (1.0-inch layer) underlain by well-graded GRAVEL FILL (base course).						Flush-Mount Morris Monument
0 - 1.0		SM	Brown SANDY SILT.			0.0			Hydrated Bentonite Chips
1.0 - 12.0			Medium stiff, brown SANDY SILT to SILT, flecks of mica, slight increase in fines. Slightly damper.			0.0			Well Casing Hydrated Bentonite Casing Seal
12.0 - 17.0		ML	Brown SILT, very damp.			0.0			10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 0.020-inch slots) End Cap Hydrated Bentonite Casing Seal Well Casing
17.0 - 20.0			Brown SILT.			0.0			10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 0.020-inch slots) End Cap Hydrated Bentonite Casing Seal Well Casing
20.0 - 25.0			Total depth = 20.0 feet below ground surface.			0.0			10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 0.020-inch slots) End Cap

ENR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03 GDT 10/28/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:
 BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT803
 LOGGED BY: T. Johnson DRILLING DATES: 1/15/2004 - 1/15/2004

REMARKS:
 No discrete soil samples collected. Lithology logged by drilling character and resistance.

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 4-61M-10135-J T5

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LOG OF BORING
SG-8

AMEC 10270

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						Flush-Mount Morris Monument
0 - 5			Brown SANDY SILT with some gravel; dry to moist.						Hydrated Bentonite Chips
5 - 10			Brown SANDY SILT, trace clay; moist.						Well Casing
10 - 15			Brown SANDY SILT to SILTY SAND with some gravel; dry to moist.						Hydrated Bentonite Casing Seal
15 - 20			Harder drilling, increasing GRAVEL sounds.						10-20 Colorado Silica Sand
20 - 25			Total depth = 20.0 feet below ground surface.						8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
									Hydrated Bentonite Casing Seal
									Well Casing
									10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap
									Hydrated Bentonite Casing Seal
									Well Casing
									10-20 Colorado Silica Sand
									8-12 Colorado Silica Sand
									Well Screen (Schedule 40 PVC, 0.020-inch slots)
									End Cap

ENR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC-PORTLAND-JUNE03.GDT 12/1/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:
BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT814
LOGGED BY: B. Peterson DRILLING DATES: 1/22/2004 - 1/22/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character and resistance.

Cadet Manufacturing, Inc.
4-61M-10135-J T5

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AMEC 10271

LOG OF BORING
SG-9

PAGE 1 OF 1

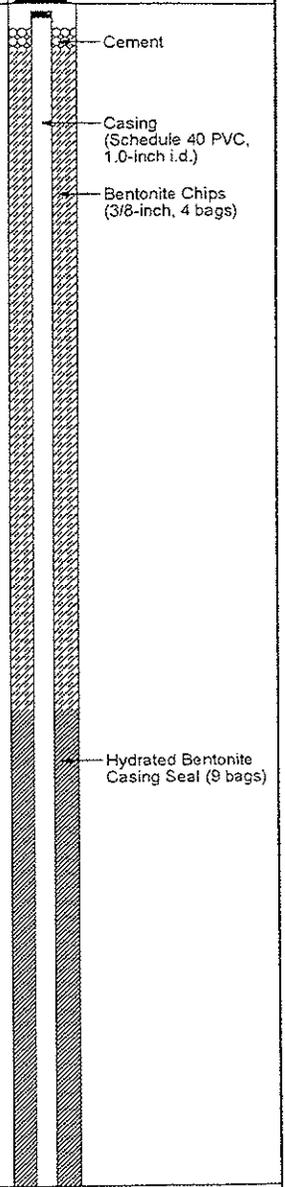
C DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						Flush-Mount Morris Monument
0-5			Brown SANDY SILT with some gravel; dry to moist.						Cement
5-10			Brown SANDY SILT, trace clay; moist.						Casing (Schedule 40 PVC, 1.0-inch i.d.)
10-15			Brown SANDY SILT to SILTY SAND; dry to moist.						Bentonite Chips (3/8-inch, 4 bags)
15-20			Brown SANDY SILT to SILTY SAND; dry to moist.						Hydrated Bentonite Casing Seal (9 bags)
20-25			Brown SANDY SILT to SILTY SAND; dry to moist.						
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Arturo LOGGED BY: B. Peterson				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64586/AHG676 DRILLING DATES: 1/22/2004 - 1/22/2004		REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.			

ENVR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 12/1/04

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
25			Harder drilling. Hard drilling.						
30			Total depth = 30.0 feet below ground surface.						
35									
40									
45									
50									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 8.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Arturo LOGGED BY: B. Peterson				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64586/AHG676 DRILLING DATES: 1/22/2004 - 1/22/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.		
Cadet Manufacturing, Inc. 4-61M-10135-J T5				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892					
							LOG OF BORING SG-9/30 PAGE 2 OF 2		
							AMEC 10273		

EHV-R-WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND.JUNE03.GDT 12/1/04

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						
			Brown SANDY SILT; dry.						
5			Grades to SILTY SAND.						
10			SAND.						
15			Large GRAVEL or COBBLE; moist.						
20			Large GRAVEL, slow drilling.						
25									
BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA DRILL RIG: CASING ELEVATION: NA CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT813 LOGGED BY: B. Lary DRILLING DATES: 1/21/2004 - 1/21/2004				REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.					
ENVR+WELL BORING REV2 4-81M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 12/1/04 Cadet Manufacturing, Inc. 4-81M-10135-J T5				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892				 LOG OF BORING SG-10/30 PAGE 1 OF 2	
								AMEC 10275	

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
25			Very GRAVELLY at 20.0-29.6 feet below ground surface.						<p>10-20 Colorado Silica Sand 8-12 Colorado Silica Sand Well Screen (Schedule 40 PVC, 1.0-inch i.d. with 0.020-inch slots) Cone-Shaped PVC End Cap</p>
30			Total depth = 29.6 feet below ground surface.						
35									
40									
45									
50									
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 12.0 (in) DRILL RIG: CONTRACTOR: Geo-Tech Explorations/Airturo LOGGED BY: B. Lary				ELEVATION REFERENCE: GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: R64586/AKT813 DRILLING DATES: 1/21/2004 - 1/21/2004			REMARKS: No discrete soil samples collected. Lithology logged by drilling character and resistance.		
Cadet Manufacturing, Inc. 4-61M-10135-J T5				AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892			LOG OF BORING SG-10/30 PAGE 2 OF 2		

ENVR-WELL BORING REV2 4-61M-10135-J T5 GPJ AMEC PORTLAND JUNE03.GDT 12/1/04

AMEC 10276

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						Flush-Mount Morris Monument
0 - 18			Brown SANDY SILT to SILTY SAND; dry to moist.						Hydrated Bentonite Chips
0 - 18									Well Casing
18 - 20									Hydrated Bentonite Casing Seal
10 - 12									10-20 Colorado Silica Sand
10 - 12									8-12 Colorado Silica Sand
10 - 12									Well Screen (Schedule 40 PVC, 0.020-inch slots)
10 - 12									End Cap
10 - 12									Hydrated Bentonite Casing Seal
10 - 12									Well Casing
15 - 17			Moist to wet?						10-20 Colorado Silica Sand
15 - 17									8-12 Colorado Silica Sand
15 - 17									Well Screen (Schedule 40 PVC, 0.020-inch slots)
15 - 17									End Cap
15 - 17									Hydrated Bentonite Casing Seal
15 - 17									Well Casing
18 - 20			GRAVEL lens; moist.						10-20 Colorado Silica Sand
18 - 20									8-12 Colorado Silica Sand
18 - 20									Well Screen (Schedule 40 PVC, 0.020-inch slots)
18 - 20									End Cap
20 - 22			Total depth = 20.0 feet below ground surface.						

ENVIR+WELL BORING REV2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 10/28/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:
BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT810
LOGGED BY: B. Lary DRILLING DATES: 1/20/2004 - 1/20/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character and resistance.

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPTN VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Asphalt underlain by GRAVEL FILL (base course).						Flush-Mount Morris Monument
0 - 20			Brown SANDY SILT to SILTY SAND; dry to moist.						Hydrated Bentonite Chips
0 - 20									Well Casing
0 - 20									Hydrated Bentonite Casing Seal
0 - 20									10-20 Colorado Silica Sand
0 - 20									8-12 Colorado Silica Sand
0 - 20									Well Screen (Schedule 40 PVC, 0.020-inch slots)
0 - 20									End Cap
0 - 20									Hydrated Bentonite Casing Seal
0 - 20									Well Casing
0 - 20									10-20 Colorado Silica Sand
0 - 20									8-12 Colorado Silica Sand
0 - 20									Well Screen (Schedule 40 PVC, 0.020-inch slots)
0 - 20									End Cap
0 - 20									Hydrated Bentonite Casing Seal
0 - 20									Well Casing
0 - 20									10-20 Colorado Silica Sand
0 - 20									8-12 Colorado Silica Sand
0 - 20									Well Screen (Schedule 40 PVC, 0.020-inch slots)
0 - 20									End Cap
20			Total depth = 20.0 feet below ground surface.						

ENVR+WELL BORING REV 2 4-61M-10135-J T5.GPJ AMEC PORTLAND JUNE03.GDT 10/28/04

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE:
BOREHOLE DIAMETER: 12.0 (in) GROUND SURFACE ELEVATION: NA
DRILL RIG: CASING ELEVATION: NA
CONTRACTOR: Geo-Tech Explorations/Arturo START CARD/TAG ID: R64586/AKT809
LOGGED BY: B. Lary DRILLING DATES: 1/19/2004 - 1/19/2004

REMARKS:
No discrete soil samples collected. Lithology logged by drilling character and resistance.

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LOG OF BORING
SG-12

AMEC 10278

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0		GP ML	Asphalt (3.0-inch layer). Dense, brown-gray SANDY GRAVEL FILL. Stiff, light brown SILT with fine sand; moist.						Flush-Mount Monument Cement Well Casing (Schedule 80 PVC, 1.0-inch O.D.) Hydrated Granular Bentonite
11			Very stiff. No recovery.		18				
11.5		GP	Gravel encountered - based on drilling observation. Very slow drilling.						
12			No recovery. Rock plugging sampler shoe.		50/4"				
12.5			Drilling becomes significantly more difficult. Gravel size increases.						
13			Medium, rounded to subrounded GRAVEL with fine to medium sand. Auger cuttings.		81	1.1			
13.5			Drilling remains slow.						
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
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36									
37									
38									
39									
40									

ENVIRONMENTAL BORING REV2 5-61M-10135-9 SG-13 TO SG-17.GPJ AMEC PORTLAND JUNE03 GDT 02/20/05

BORING METHOD: Hollow Stem Auger
 BOREHOLE DIAMETER: 4 1/4 (in)
 DRILL RIG: Stratus System 4000
 CONTRACTOR: Geo-Tech Explorations
 LOGGED BY: M. Rarity

ELEVATION REFERENCE: NA
 GROUND SURFACE ELEVATION: NA
 CASING ELEVATION: NA
 START CARD/TAG ID: NA
 DRILLING DATES: 06/31/2005 - 05/31/2005

REMARKS: **DRAFT**
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LOG OF BORING
 SG-13/30
 PAGE 1 OF 1

DEPTH (ft. bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			SANDY GRAVEL FILL with some silt.						Flush-Mount Monument
5		ML	Medium stiff, medium brown SILT with some fine sand and trace clay; moist.						Concrete
10		SM	Stiff, light brown, poorly graded, fine SAND with some silt; moist.						Well Casing (Schedule 80 PVC, 1.0-inch O.D.)
15		SM	Medium stiff, brown, fine SILTY SAND; moist.						Hydrated Granular Bentonite
20			Stiff, brown, fine to coarse SAND with some silt; moist.						10/20 Colorado Silica Sand
25			End of boring at 20 feet below ground surface.						8/12 Colorado Silica Sand
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap
									Hydrated Granular Bentonite
									10/20 Colorado Silica Sand
									8/12 Colorado Silica Sand
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap
									Hydrated Granular Bentonite
									10/20 Colorado Silica Sand
									8/12 Colorado Silica Sand
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 6 5/8 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-69 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: J. Fassio DRILLING DATES: 06/02/2005 - 06/02/2005

REMARKS: **DRAFT**
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EMVW-MWELL BORING REV2 5-61M-10135-9 SG-13 TO SG-17 G.P.J. AMEC PORTLAND JUNE 03 6DT 6/28/05

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DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			SANDY GRAVEL FILL with some silt.						Flush-Mount Monument
5		ML	Medium stiff, medium brown SILT with some fine sand and trace clay; moist.						Cement
10		SM	Stiff, light brown, poorly graded, fine SAND with some silt; moist.						Well Casing (Schedule 80 PVC, 1.0-inch O.D.)
15		SM	Medium stiff, brown, fine SILTY SAND; moist.						Hydrated Granular Bentonite
20			Stiff, brown, fine to coarse SAND with some silt; moist.						
22		GW	Encountered GRAVEL based on drilling character. Harder drilling at 22 feet below ground surface.						
25			No sample collected due to dense GRAVELLY soil.						
30			Dense, gray, well-graded, fine to coarse GRAVELLY SAND with trace silt; moist.						10/20 Colorado Silica Sand
33.5			COBBLE and coarse GRAVEL from 33.5 to 37 feet below ground surface based on drilling character.						8/12 Colorado Silica Sand
37									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
40			Dense, gray, well-graded, fine to coarse SAND with trace gravel (10%); moist. End of boring at 40 feet below ground surface.						End Cap
45									Hydrated Granular Bentonite
									10/20 Colorado Silica Sand
									8/12 Colorado Silica Sand
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap
BORING METHOD: Hollow Stem Auger BOREHOLE DIAMETER: 4 1/4 (in) DRILL RIG: Mobile B-59 CONTRACTOR: Geo-Tech Explorations/Jocel LOGGED BY: J. Fassio				ELEVATION REFERENCE: NA GROUND SURFACE ELEVATION: NA CASING ELEVATION: NA START CARD/TAG ID: NA DRILLING DATES: 06/02/2005 - 06/02/2005		REMARKS: <h1 style="text-align: center;">DRAFT</h1> <p style="text-align: center;">For Review Only</p>			
Cadet Manufacturing 5-61M-10135-9			AMEC Earth & Environmental, Inc. 7376 SW Durham Road Portland, Oregon USA 97224 Tel +1 (503) 639-3400 Fax +1 (503) 620-7892						
						LOG OF BORING SG-14/40 PAGE 1 OF 1			

ENVR-WELL BORING REV2 5-61M-10135-9 SG-13 TO SG-17 GP J AMEC PORTLAND JUNE03.GDT 6/28/05

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			SANDY GRAVEL FILL with some silt.						Flush-Mount Monument
5		ML	Medium stiff, medium brown SILT with some fine sand and trace clay; moist.		8	0.3		SG-14-5'	Cement
10		SM	Stiff, light brown, poorly graded, fine SAND with some silt; moist.		9	0.5		SG-14-10'	Well Casing (Schedule 80 PVC, 1.0-inch O.D.)
15		SM	Medium stiff, brown, fine SILTY SAND; moist.		8	0.5		SG-14-15'	Hydrated Granular Bentonite
20			Stiff, brown, fine to coarse SAND with some silt; moist.		10	0.6		SG-14-20'	
22		GW	Encountered GRAVEL based on drilling character. Harder drilling at 22 feet below ground surface.						
25			No sample collected due to dense GRAVELLY soil.						
30									

ERMV-WELL BORING REV2 5-61M-10135-9 SG-13 TO SG-17.GPJ AMEC PORTLAND JUNE03.GDT 8/28/05

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 4 1/4 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-59 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: J. Fassio DRILLING DATES: 06/02/2005 - 06/02/2005

REMARKS: **DRAFT**
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LOG OF BORING
SG-14/50
PAGE 1 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
30		GW	Dense, gray, well-graded, fine to coarse GRAVELLY SAND with trace silt; moist.		32	0.4		SG-14-30'	
35			COBBLE and coarse GRAVEL from 33.5 to 37 feet below ground surface based on drilling character.						
40			Dense, gray, well-graded, fine to coarse SAND with trace gravel (10%); moist.		48	0.5		SG-14-40'	
45			Easier drilling from 45 to 50 feet below ground surface. No sample collected.						
50			End of boring at 50 feet below ground surface.						

ENVIR+WELL BORING REV2 5-61M-10135-9 SG-13 TO SG-17.GPJ AMEC PORTLAND JUNEG.GBT 8/28/05

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 4 1/4 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-59 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: J. Fassio DRILLING DATES: 06/02/2005 - 06/02/2005

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LOG OF BORING
SG-14/50
PAGE 2 OF 2

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0	Asphalt (0.3-inch layer) Granular FILL								Flush-Mount Monument Concrete
5	SM	SM	Medium dense, light brown, fine SILTY SAND with trace clay; moist.						Well Casing (Schedule 80 PVC, 1.0-inch O.D.) Hydrated Granular Bentonite
10	GP	GP	Medium dense, dark brown, medium to coarse SAND with trace gravel and silt. Based on drilling characteristics.						10/20 Colorado Silica Sand 8/12 Colorado Silica Sand Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots) End Cap Hydrated Granular Bentonite
15			Very dense. Drilling becomes significantly harder. GRAVEL plugging sampler shoe, no sample recovery.						10/20 Colorado Silica Sand 8/12 Colorado Silica Sand Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots) End Cap Hydrated Granular Bentonite
20			Very dense. Rock plugging sampler shoe, no sample recovery. End of boring at 20 feet below ground surface.						10/20 Colorado Silica Sand 8/12 Colorado Silica Sand Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots) End Cap
25									

5-61M-10135-9 SC-13 TO SG-17.GPJ AMEC PORTLAND JULIE63.GDT 628315

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 6 6/8 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-59 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: M. Rarley DRILLING DATES: 06/01/2005 - 06/01/2005

REMARKS: **DRAFT**
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LOG OF BORING
SG-15/20
PAGE 1 OF 1

DEPTH (ft bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0	Asphalt (0.3-inch layer). Granular FILL								Flush-Mount Monument
5		SM	Medium dense, light brown, fine SILTY SAND with trace clay; moist.		15	0.0		SG-15-5'	Cement Well Casing (Schedule 80 PVC, 1.0-inch O.D.) Hydrated Granular Bentonite
10		GP	Medium dense, dark brown, medium to coarse SAND with trace gravel and silt. Based on drilling characteristics.		25	0.3		SG-15-10'	
15			Very dense. Drilling becomes significantly harder. GRAVEL plugging sampler shoe, no sample recovery.		50/5"	0.7		SG-15-15'	
20			Very dense. Rock plugging sampler shoe, no sample recovery.		50/5"	0.6		SG-15-20'	
25			Drilling becomes slightly easier and cuttings appear to be fine to medium GRAVEL.						
30		GM	Very dense, dark brown, angular to subrounded GRAVEL with fine to medium sand and silt.		35	0.2		SG-15-30'	8/12 Colorado Silica Sand Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots) End Cap
35			End of boring at 35 feet below ground surface.						

ENR+WELL BORING REV2 5-61M-10135-9 SG-15 TO SG-17_SPL AMEC PORTLAND_JUNE03_GDT_e28005

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 4 1/4 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-69 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: M. Rarity DRILLING DATES: 06/01/2005 - 06/01/2005

REMARKS:
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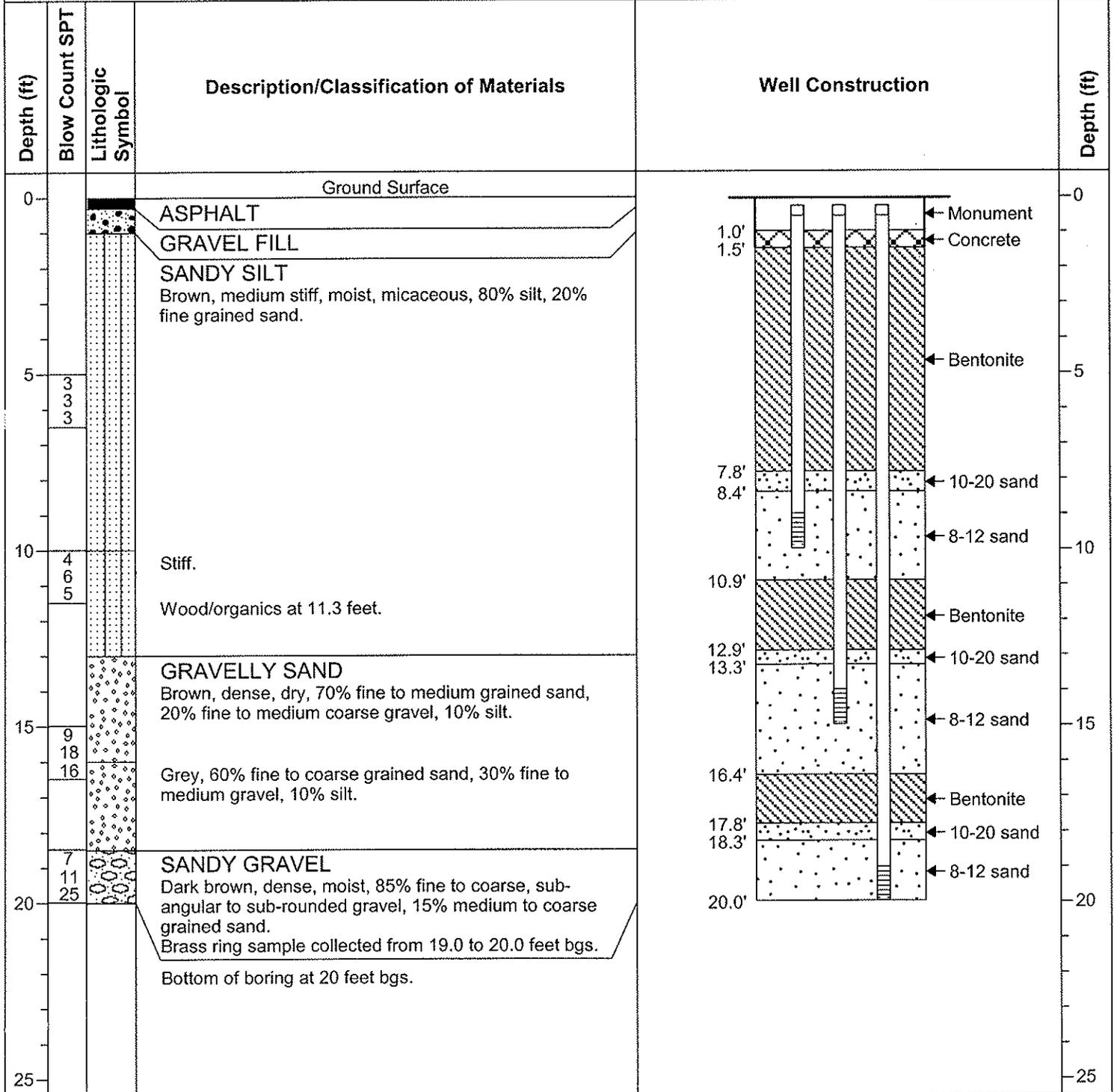


LOG OF BORING
 SG-15/30
 PAGE 1 OF 1

Soil Gas Well Log

Parametrix

Boring ID: CM-SG-16 Project Name: POV Soil Gas Wells Project #: 2751940006-/3-4965 PMX Representative: Adam Romey G.I.T./Ingmar Saul R.G. Drilling Company: GeoTech/Boart-Longyear Drilling Method: Hollow Stem Auger		Starting Date: 7/19/05 Ending Date: 7/19/05 Boring Depth: 20.0 feet bgs Depth to Water: N/A Location: Panasonic, Building 2245	
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DEPTH (ft bgsf)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Medium dense GRAVEL FILL with sand and silt; dry to moist.						Flush-Mount Monument
5			Medium dense, brown, fine SILTY SAND; moist.						Concrete
10			Medium dense SAND. Particle size increases slightly but remains fine.						Well Casing (Schedule 80 PVC, 1.0-inch O.D.)
15	GP		GRAVEL encountered based on drilling characteristics.						Hydrated Granular Bentonite
20			No recovery.						10/20 Colorado Silica Sand
25			GRAVEL becomes less dense (easier drilling) at 19.5 feet below ground surface. End of boring at 20 feet below ground surface.						8/12 Colorado Silica Sand
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap
									Hydrated Granular Bentonite
									10/20 Colorado Silica Sand
									8/12 Colorado Silica Sand
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap
									Hydrated Granular Bentonite
									10/20 Colorado Silica Sand
									8/12 Colorado Silica Sand Mixed with Native
									Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots)
									End Cap

EHR:WELL BORING REVZ 5-61M-10135-9 SG-17 TO SC-17 GPJ AMEC PORTLAND JUNE03.GDT 5/28/05

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 6 5/8 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-59 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: M. Rarity DRILLING DATES: 06/03/2005 - 06/03/2005

REMARKS: **DRAFT**
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LOG OF BORING
SG-17/20
PAGE 1 OF 1

DEPTH (ft Bgs)	GRAPHIC LOG	USCS SYMBOL	SOIL DESCRIPTION	SAMPLE	BLOW COUNT SPT N VALUE	VOLATILE READING (ppm)	GROUNDWATER	FIELD AND LABORATORY TESTING	WELL SCHEMATIC
0			Medium dense GRAVEL FILL with sand and silt; dry to moist.						WSD_FLUSH_MOUNT
5			Medium dense, brown, fine SILTY SAND; moist.		14	0.2		SG-17-5'	Cement Well Casing (Schedule 80 PVC, 1.0-inch O.D.) Hydrated Granular Bentonite
10			Medium dense SAND. Particle size increases slightly but remains fine.		17	0.4		SG-17-10'	
15	GP		GRAVEL encountered based on drilling characteristics.						
15			No recovery.		50/3"				
20	GP, GM		GRAVEL becomes less dense (easier drilling) at 19.5 feet below ground surface. Very dense, dark brown, subrounded to rounded GRAVEL with sand and some silt; moist.		>50	0.2			
25			Drilling becomes more difficult. Gravel size becomes larger.						
30			Medium dense SILTY GRAVEL with sand; moist to wet.		25	0.0		SG-17-30'	Natural Sand Pack Well Screen (Schedule 80 PVC, 1.0-inch O.D. with 0.020-inch slots) End Cap
35			Hole collapsing while pulling out auger to 30 feet below ground surface.						
40			End of boring at 35 feet below ground surface.						

ENVIR-WELL BORING REV2 5-61M-10135-9 SG-17 TO SG-17.GPJ AMEC PORTLAND June03.GDT 62805

BORING METHOD: Hollow Stem Auger ELEVATION REFERENCE: NA
 BOREHOLE DIAMETER: 4 1/4 (in) GROUND SURFACE ELEVATION: NA
 DRILL RIG: Mobile B-59 CASING ELEVATION: NA
 CONTRACTOR: Geo-Tech Explorations/Joel START CARD/TAG ID: NA
 LOGGED BY: M. Rarity DRILLING DATES: 06/01/2005 - 06/01/2005

REMARKS: **DRAFT**
For Review Only

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