

Soil Boring Logs

Soil Classification System

	MAJOR DIVISIONS	CLEAN GRAVEL (Little or no fines)	GRAPHIC SYMBOL	LETTER SYMBOL ⁽¹⁾	TYPICAL DESCRIPTIONS ⁽²⁾⁽³⁾
COARSE-GRAINED SOIL (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well-graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		GP	Poorly graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		GM	Silty gravel; gravel/sand/silt mixture(s)
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		SW	Well-graded sand; gravelly sand; little or no fines
		CLEAN SAND (Little or no fines)		SP	Poorly graded sand; gravelly sand; little or no fines
		SAND WITH FINES (Appreciable amount of fines)		SM	Silty sand; sand/silt mixture(s)
FINE-GRAINED SOIL (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)	CLEAN SAND (Little or no fines)		ML	Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity
		GRAVEL WITH FINES (Appreciable amount of fines)		CL	Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay
		GRAVEL WITH FINES (Appreciable amount of fines)		OL	Organic silt; organic, silty clay of low plasticity
	SILT AND CLAY (Liquid limit greater than 50)	CLEAN SAND (Little or no fines)		MH	Inorganic silt; micaceous or diatomaceous fine sand
		GRAVEL WITH FINES (Appreciable amount of fines)		CH	Inorganic clay of high plasticity; fat clay
		GRAVEL WITH FINES (Appreciable amount of fines)		OH	Organic clay of medium to high plasticity; organic silt
	HIGHLY ORGANIC SOIL		PT	Peat; humus; swamp soil with high organic content	

OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		AC or PC	Asphalt concrete pavement or Portland cement pavement
ROCK		RK	Rock (See Rock Classification)
WOOD		WD	Wood, lumber, wood chips
DEBRIS		DB	Construction debris, garbage

- Notes:
- USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
 - Soil descriptions are based on the general approach presented in the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the Standard Test Method for Classification of Soils for Engineering Purposes, as outlined in ASTM D 2487.
 - Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:
 - Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.
 - Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.
 - > 15% and ≤ 30% - "gravelly," "sandy," "silty," etc.
 - Additional Constituents: > 5% and ≤ 15% - "with gravel," "with sand," "with silt," etc.
 - ≤ 5% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted.
 - Soil density or consistency descriptions are based on judgement using a combination of sampler penetration blow counts, drilling or excavating conditions, field tests, and laboratory tests, as appropriate.

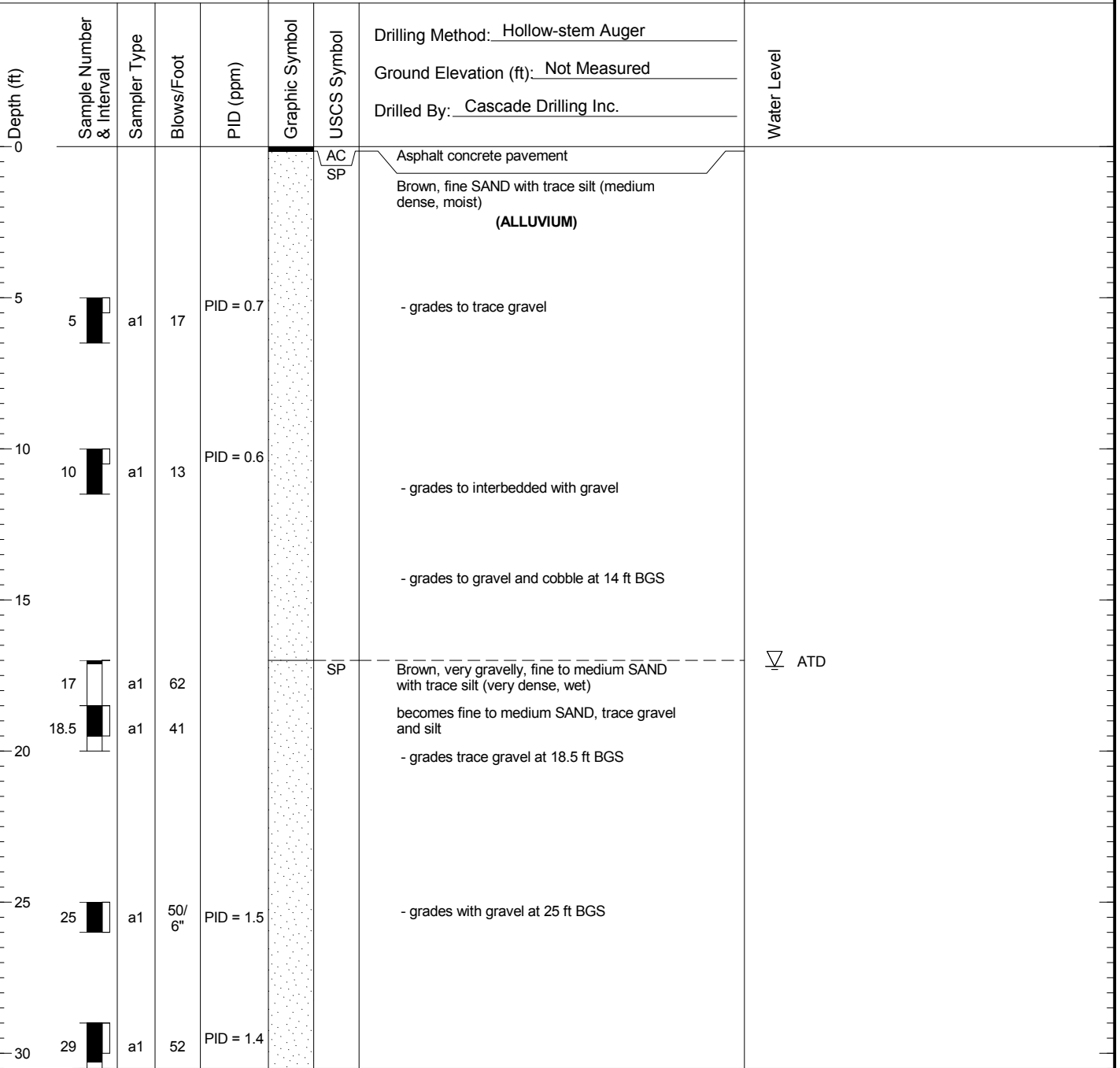
Drilling and Sampling Key		Field and Lab Test Data																																																				
SAMPLER TYPE	SAMPLE NUMBER & INTERVAL																																																					
<table border="0" style="width: 100%;"> <tr> <th style="width: 10%;">Code</th> <th style="width: 90%;">Description</th> </tr> <tr><td>a</td><td>3.25-inch O.D., 2.42-inch I.D. Split Spoon</td></tr> <tr><td>b</td><td>2.00-inch O.D., 1.50-inch I.D. Split Spoon</td></tr> <tr><td>c</td><td>Shelby Tube</td></tr> <tr><td>d</td><td>Grab Sample</td></tr> <tr><td>e</td><td>Single-Tube Core Barrel</td></tr> <tr><td>f</td><td>Double-Tube Core Barrel</td></tr> <tr><td>g</td><td>2.50-inch O.D., 2.00-inch I.D. WSDOT</td></tr> <tr><td>h</td><td>3.00-inch O.D., 2.375-inch I.D. Mod. California</td></tr> <tr><td>i</td><td>Other - See text if applicable</td></tr> <tr><td>1</td><td>300-lb Hammer, 30-inch Drop</td></tr> <tr><td>2</td><td>140-lb Hammer, 30-inch Drop</td></tr> <tr><td>3</td><td>Pushed</td></tr> <tr><td>4</td><td>Vibrocore (Rotasonic/Geoprobe)</td></tr> <tr><td>5</td><td>Other - See text if applicable</td></tr> </table>	Code	Description	a	3.25-inch O.D., 2.42-inch I.D. Split Spoon	b	2.00-inch O.D., 1.50-inch I.D. Split Spoon	c	Shelby Tube	d	Grab Sample	e	Single-Tube Core Barrel	f	Double-Tube Core Barrel	g	2.50-inch O.D., 2.00-inch I.D. WSDOT	h	3.00-inch O.D., 2.375-inch I.D. Mod. California	i	Other - See text if applicable	1	300-lb Hammer, 30-inch Drop	2	140-lb Hammer, 30-inch Drop	3	Pushed	4	Vibrocore (Rotasonic/Geoprobe)	5	Other - See text if applicable		<table border="0" style="width: 100%;"> <tr> <th style="width: 10%;">Code</th> <th style="width: 90%;">Description</th> </tr> <tr><td>PP = 1.0</td><td>Pocket Penetrometer, tsf</td></tr> <tr><td>TV = 0.5</td><td>Torvane, tsf</td></tr> <tr><td>PID = 100</td><td>Photoionization Detector VOC screening, ppm</td></tr> <tr><td>W = 10</td><td>Moisture Content, %</td></tr> <tr><td>D = 120</td><td>Dry Density, pcf</td></tr> <tr><td>-200 = 60</td><td>Material smaller than No. 200 sieve, %</td></tr> <tr><td>GS</td><td>Grain Size - See separate figure for data</td></tr> <tr><td>AL</td><td>Atterberg Limits - See separate figure for data</td></tr> <tr><td>GT</td><td>Other Geotechnical Testing</td></tr> <tr><td>CA</td><td>Chemical Analysis</td></tr> </table>	Code	Description	PP = 1.0	Pocket Penetrometer, tsf	TV = 0.5	Torvane, tsf	PID = 100	Photoionization Detector VOC screening, ppm	W = 10	Moisture Content, %	D = 120	Dry Density, pcf	-200 = 60	Material smaller than No. 200 sieve, %	GS	Grain Size - See separate figure for data	AL	Atterberg Limits - See separate figure for data	GT	Other Geotechnical Testing	CA	Chemical Analysis
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ASB0119

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 12/03/03
Total Depth of Boring = 30.5 ft.

- Notes:
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 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Log of Boring ASB0119

Figure
B-2

ASB0120

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Description	Groundwater
0							Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
5						SM	Brown, silty, fine SAND, trace gravel (loose, moist, no odor)(alluvium)	
5 - 6	a1	a1	8	1.4	[Dotted pattern]			
10							grades to medium dense with 0.2 ft layer of fine to medium SAND with gravel, trace silt	
10 - 11	a1	a1	23	3.5	[Dotted pattern]			
15						GM	Brown, silty, sandy, fine to coarse GRAVEL with cobble (very dense, wet, no odor, no sheen)	
15 - 16	1	a1	49		[Circles]			▽ ATD
16 - 18	2	a1	68	3.8	[Circles]		grades to trace cobble	
25						SP-SM	Black, fine to coarse SAND with gravel and silt (dense, wet, no odor, no sheen)	
25 - 26	3	a1	39	3.5	[Dotted pattern]			
30							grades to no gravel	
30 - 31	4	a1	62		[Dotted pattern]			

Boring Completed 12/04/03
Total Depth of Boring = 31.5 ft.

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Log of Boring ASB0120

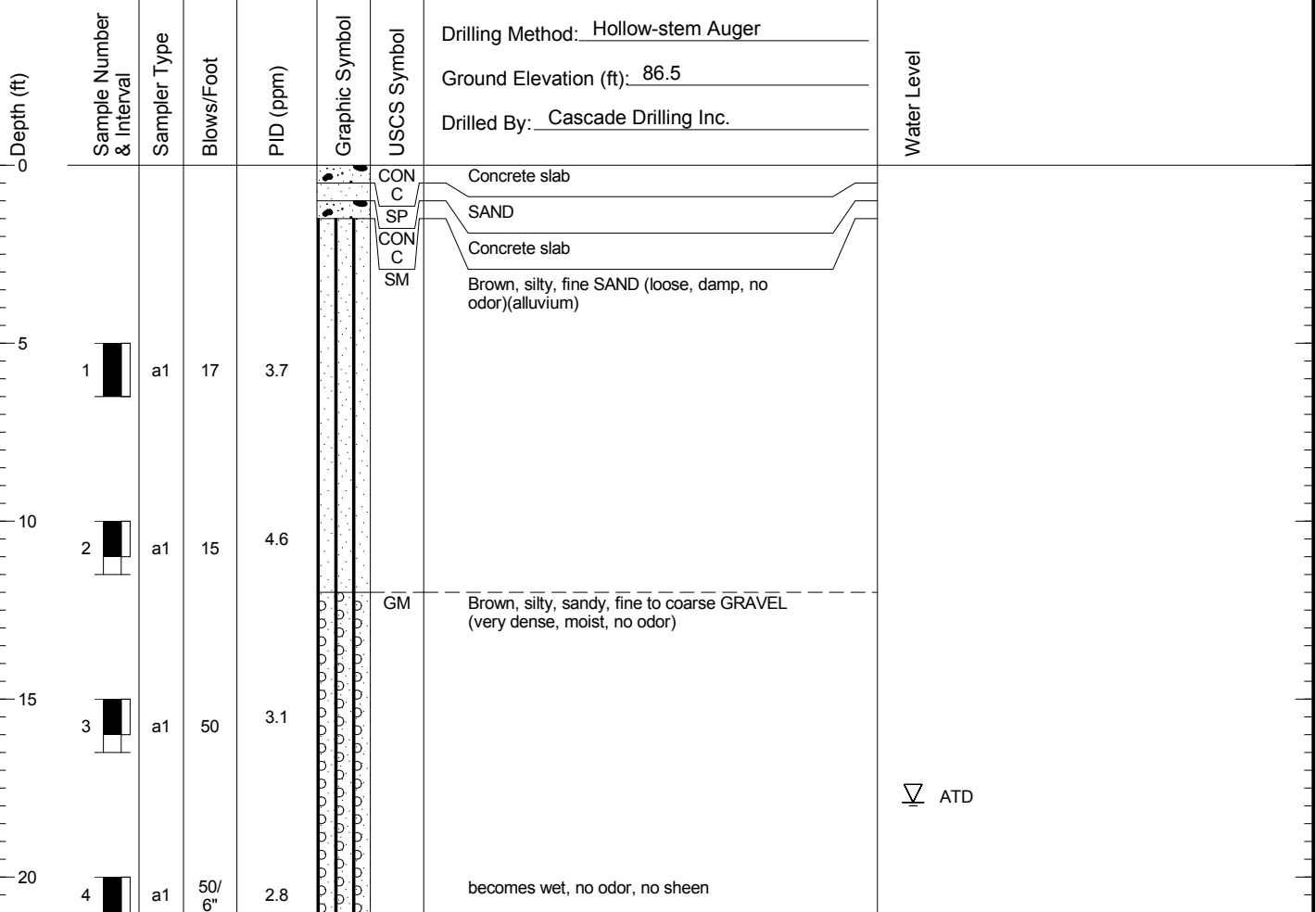
Figure
B-3

ASB0121

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 12/04/03
 Total Depth of Boring = 21.0 ft.

- Notes:
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Log of Boring ASB0121

Figure
B-4

ASB0122

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Description	Water Level
0							Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
					CON C		Concrete slab	
					SM		Brown, silty, fine SAND with fine to coarse gravel (very dense, damp, no odor)	
5	1	a1	50/6"	8.3			becomes dark gray with organic odor	
10	2	a1	89/6"	8.8			becomes with cobble, moist, possible solvent odor	
15	3	a1	24	23.5			Dark gray, silty, fine SAND (medium dense, moist, moderate to strong petroleum or solvent odor)	
						SP- SM	@15.4 ft: 0.3 ft thick layer of SILT (odor above and below layer) Dark gray, gravelly, fine to medium SAND with silt (dense, wet, hydrogen sulfide odor)	▽ ATD
20	4	a1	35	3.7				

Boring Completed 12/04/03
Total Depth of Boring = 21.5 ft.

- Notes:
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Log of Boring ASB0122

Figure
B-5

ASB0123

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
						Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0					CON C	Concrete slab	
5	1	a1	50/ 6"	3.5	SP- SM	Dark brown, fine SAND with silt and fine to coarse gravel (very dense, moist, organic odor)	
10	2	a1	87/ 6"	3.2	SM	Dark brown, silty, gravelly, fine SAND (very dense, moist, no odor)	
15	3	a1	60/ 6"	3.4	SP- SM	Dark brown, fine to coarse SAND with silt and fine to coarse gravel (dense, wet, no odor, no sheen)	▽ ATD
20	4	a1	42	2.7			

Boring Completed 12/04/03
Total Depth of Boring = 21.5 ft.

- Notes:
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Log of Boring ASB0123

Figure
B-6

ASB0124

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Description	Groundwater
0							Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0 - 5	1	a1	24	1.3	[Solid black bar]	AC SM	Asphalt concrete	Groundwater not encountered.
5 - 10	2	a1	50/ 6"	1.2	[Dotted pattern]	GM	Brown, silty, fine SAND (medium dense, damp, no odor)	
10 - 17	3	a1	60/ 6"	2.4	[Dotted pattern]		Brown, sandy, fine to coarse GRAVEL with silt (very dense, damp, no odor) becomes moist	

Boring Completed 12/05/03
Total Depth of Boring = 17.0 ft.

- Notes:
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 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Log of Boring ASB0124

Figure
B-7

ASB0125

SAMPLE DATA				SOIL PROFILE		GROUNDWATER	
Depth (ft) 0 5 10 15 20 25 30 35	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	
	1	a1	25	1.7	AC SM	AC SM	
	2	a1	50/ 6"	1.3	SP- SM	SP- SM	
	3	a1	60/ 6"	2.4	SM	SM	
<p style="text-align: right;">Drilling Method: <u>Hollow-stem Auger</u></p> <p style="text-align: right;">Ground Elevation (ft): <u>86.5</u></p> <p style="text-align: right;">Drilled By: <u>Cascade Drilling Inc.</u></p>							
					<p style="text-align: center;">Asphalt concrete</p> <p style="text-align: center;">Brown, silty, fine SAND (medium dense, damp, no odor)</p> <p style="text-align: center;">@5.5 ft: silty, pea gravel (tank backfill)</p>		Groundwater not encountered.
					<p style="text-align: center;">Brown, gravelly, medium SAND with silt (very dense, damp, no odor)</p>		
					<p style="text-align: center;">Brown, gravelly, silty, fine SAND (very dense, moist, no odor)</p>		

Boring Completed 12/05/03
Total Depth of Boring = 17.0 ft.

- Notes:
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Log of Boring ASB0125

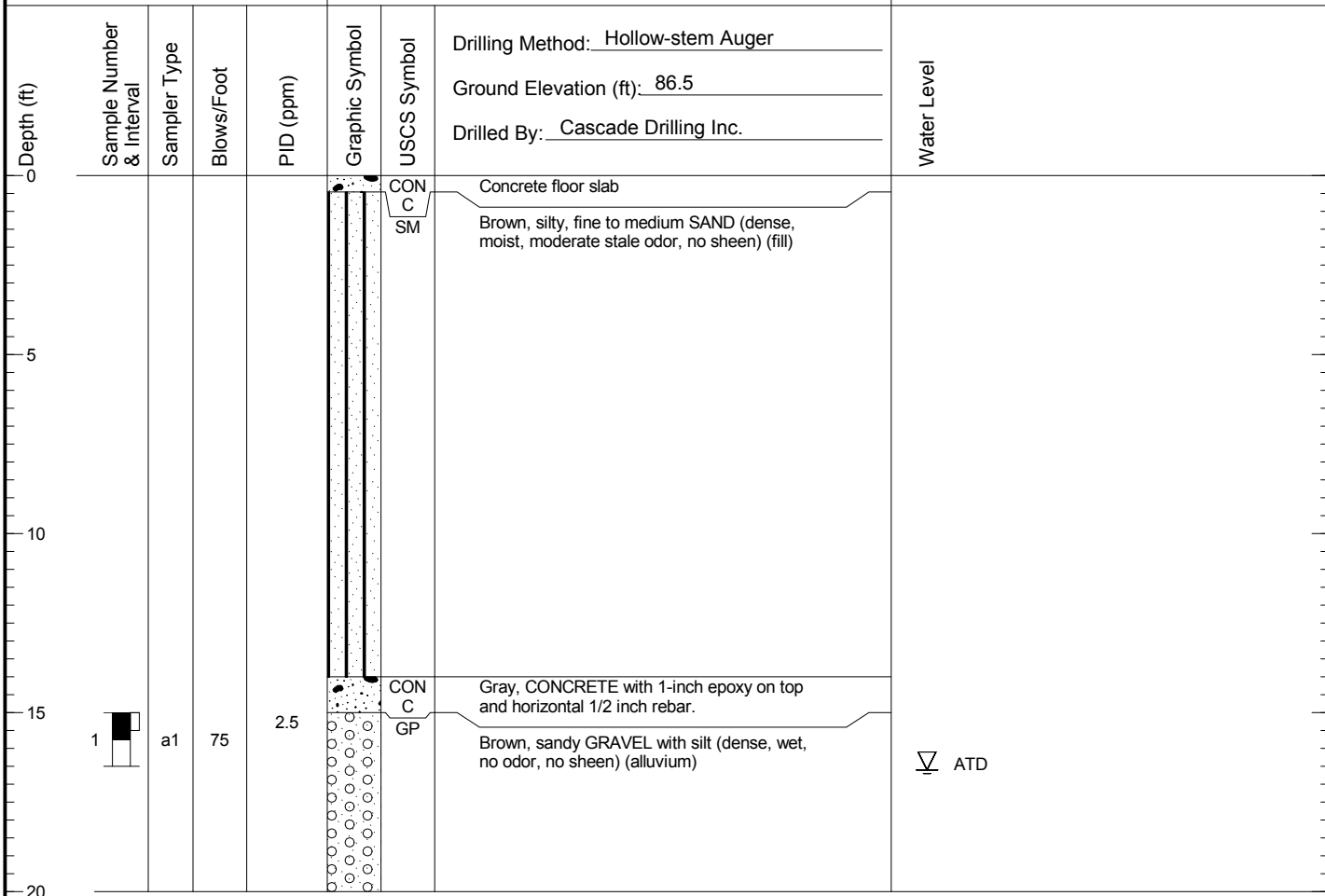
Figure
B-8

ASB0126

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 12/16/03
Total Depth of Boring = 20.0 ft.

- Notes:
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Log of Boring ASB0126

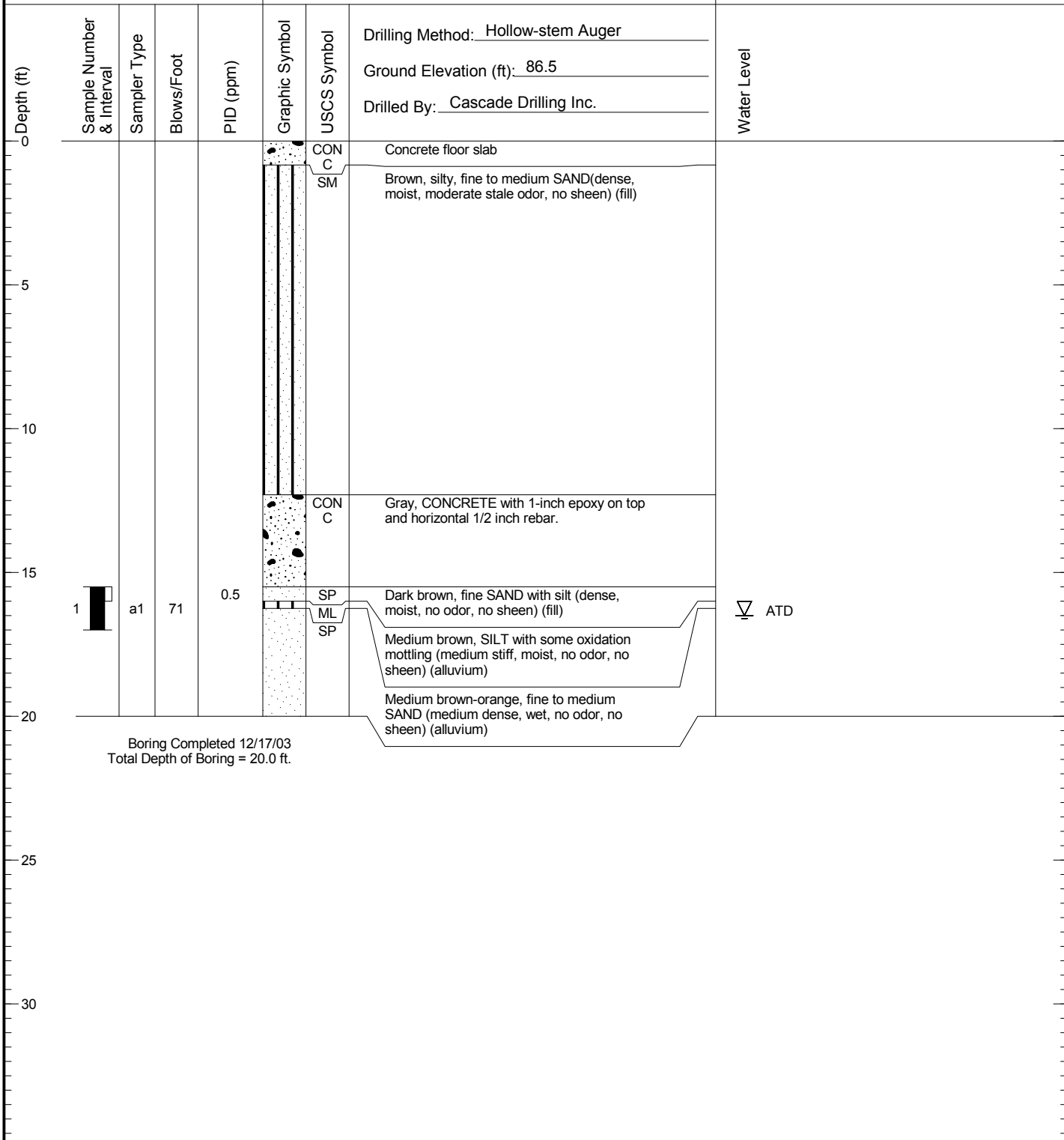
Figure
B-9

ASB0127

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
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Log of Boring ASB0127

Figure
B-10

ASB0128

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0					CON C	Concrete floor slab	
5					SM	Brown, silty, fine to medium SAND (dense, moist, moderate stale odor, no sheen) (fill)	
10					CON C	Gray, CONCRETE with 1-inch epoxy on top and horizontal 1/2 inch rebar.	
15	1	a1	50/ 6"	0.9	SM	Gray, silty, fine to medium SAND with gravel (very dense, moist, no odor, no sheen) (alluvium)	▽ ATD
20							

Boring Completed 12/18/03
 Total Depth of Boring = 20.0 ft.

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Log of Boring ASB0128

Figure
B-11

ASB0129

SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft) 0 5 10 15 20	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level	
	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>							
						CON C	Concrete floor slab	
	1	a2	21,50/ 6"	0	[Symbol]	SM	Brown, silty, fine to medium SAND with gravel, homogenous, no odor, no sheen (dense, dry) (fill)	
	2	a2	23,50/ 6"	0	[Symbol]	SM	Brown to gray, silty, fine to medium SAND with gravel, no sheen, slight stale odor (medium dense, damp) (Alluvium)	▽
3	a2	8	0	[Symbol]	SM	Gray, silty, gravelly, fine to coarse SAND, homogenous, no odor, no sheen (dense, wet) (Alluvium)		
4	a2	21,50/ 6"	0	[Symbol]	SM	[Description]		

Boring Completed 02/19/04
Total Depth of Boring = 20.0 ft.

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Log of Boring ASB0129

Figure
B-12

ASB0130

SAMPLE DATA				SOIL PROFILE		GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol
0						
					CON C	Concrete floor slab
					SM	Dark brown, silty, fine to medium SAND with 2" rounded gravel, homogenous, no odor, no sheen (dense, dry) (fill)
5	1	a2	28,50/ 6"	0		
10	2	a2	50/ 6"	0		
15	3	a2	20,50/ 6"	0	SP	Dark brown fine to medium SAND with rounded 2" gravel, homogenous, no odor, no sheen (dense, wet) (Alluvium)
20	4	a2	21,50/ 6"	0	WD	Wood, massive, no odor, no sheen, fresh appearance, homogenous (medium dense)

Water Level



Boring Completed 02/19/04
Total Depth of Boring = 20.5 ft.

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Boeing Auburn Remedial Investigation Auburn, Washington	Log of Boring ASB0130	Figure B-13
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ASB0131

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
						Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0					CON C	Concrete floor slab	
5	1	a2	18	0	SM	Brown silty SAND with gravel, homogenous, no odor, no sheen (medium dense, dry) (fill)	
10	2	a2	11	0	ML	Brown with oxidation mottling, sandy SILT, slightly laminated, no odor, no sheen (medium stiff, damp to dry) (Alluvium)	
15	3	a2	34	0	SM	Brown, very silty, fine to medium SAND, homogenous, no odor, no sheen (medium dense, damp to dry) (Alluvium)	▽
20	4	a2	50/ 6"	0	SP	Brown, silty, gravelly, fine to medium SAND, homogenous, no odor, no sheen (medium dense, wet) (Alluvium)	
						Becomes very dense at 20 ft	

Boring Completed 02/19/04
Total Depth of Boring = 20.5 ft.

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Log of Boring ASB0131

Figure
B-14

ASB0132

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
						Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0					CON	Concrete floor slab	
5	1	a2	16	0	SM	Dark brown, silty, fine to medium SAND, homogenous, no odor, no sheen (medium dense to loose, damp to dry) (fill)	
10	2	a2	39	0	ML	Brown with oxidation mottling, sandy SILT, homogenous, no odor, no sheen (medium stiff, damp) (Alluvium)	
15	3	a2	26	0	SP	Brown, fine to medium SAND with silt, homogenous, no odor, no sheen (dense, dry) (Alluvium)	▽
20	4	a2	50/ 6"		SW	Dark brown, fine to coarse SAND with gravel, homogenous, no odor, no sheen (medium dense, wet) (Alluvium)	

Boring Completed 02/18/04
Total Depth of Boring = 20.5 ft.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



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Investigation
Auburn, Washington

Log of Boring ASB0132

Figure
B-15

ASB0133

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
						Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
					CON C	Concrete floor slab	
	1	a2	8	0	SM	Medium brown, silty, fine to medium SAND, homogenous, no odor, no sheen (loose to damp to dry) (fill)	
10	2	a2	22	0	SP	Dark brown, fine to medium SAND, homogenous, no odor, no sheen (medium dense, dry) (Alluvium)	
	3	a2	15,50/ 6"	0	SP	Medium to dark brown, fine to medium SAND with 2" rounded gravel, homogenous, no odor, no sheen (very dense, wet) (Alluvium)	▽
20	4	a2	12,50/ 6"	0	GP	Gray rounded GRAVEL with sand, no odor, no sheen (dense, wet) (Alluvium)	
	5	a2	50/ 6"	0	SP	Dark brown, fine to medium SAND with 2" rounded gravel, homogenous, no odor, no sheen (medium dense, wet) (Alluvium)	
30	6	a2	50/ 6"				
	7	a2	50/ 6"	0	SW	Brown, fine to coarse SAND with rounded gravel, 2" and smaller, no odor, no sheen (very dense, wet) (Alluvium)	
40	8	a2	50/ 6"	0			
	9	a2	50/ 6"				
50	10	a2	50/ 6"	0	GP	Light brown, silty, rounded 2" and smaller GRAVEL, no odor, no sheen (very dense, wet) (Alluvium)	

Boring Completed 02/17/04
Total Depth of Boring = 50.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0133

Figure
B-16

ASB0134

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
						Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: <u>Cascade Drilling Inc.</u>	
					CON C	Concrete floor slab	
	1	a2	22	0	ML	Medium brown, SILT, non plastic, homogenous, no odor, no sheen (medium stiff, damp) (Alluvium)	
	2	a2	16	0	SP	Orange brown, fine to medium SAND with silt, homogenous, no odor, no sheen (medium dense, dry) (Alluvium)	
	3	a2	21, 50/6"	0	SM	Medium brown, very silty, fine to medium SAND, homogenous, no odor, no sheen (medium dense, dry) (Alluvium)	▽
	4	a2	50/6"	0	SW	Dark brown to gray, silty, fine to coarse SAND with gravel, homogenous, no odor, no sheen (very dense, wet) (Alluvium)	
	5	a2	17, 50/6"	0	SP	Gray, fine to medium SAND with gravel, homogenous, no odor, no sheen (dense, wet) (Alluvium)	
	6	a2	50/6"	0	SW	Gray, well graded, homogenous SAND, no odor, no sheen, (very dense, wet) (Alluvium)	
	7	a2	50/6"	0	GW	Gray, fine to coarse GRAVEL with sand, homogenous, no odor, no sheen (very dense, wet) (Alluvium)	
	8	a2	15, 50/6"	0	GP	Gray sandy GRAVEL, homogenous, no odor, no sheen (very dense, wet) (Alluvium)	
	9	a2	50/6"	0	SP	Light brown, gravelly, fine to coarse SAND with silt, homogenous, no odor, no sheen (very dense, wet) (Alluvium)	
		a2	50/6"	0			

Boring Completed 02/17/04
Total Depth of Boring = 50.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0134

Figure
B-17

ASB0135

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
0						Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
5	1	e3			[Stippled Pattern]	SM Light brown, silty, fine to medium SAND with gravel, rounded, no odor, no sheen (loose to medium dense, dry); (FILL)	
10	2	e3			[Stippled Pattern]	SM -1(ALLUVIUM)Light gray, very silty, fine SAND; no odor, no sheen (medium dense, wet) (ALLUVIUM)>>	
					[Wavy Pattern]	PT Dark brown, fibrous PEAT; no odor, no sheen (soft, wet)	
					[Stippled Pattern]	SM Dark brown with oxidation staining, silty, fine to medium SAND with trace organics; no odor, no sheen (medium dense, moist)	
					[Stippled Pattern]	SP-SM Dark gray to black with trace red grains, fine to medium SAND with silt; no odor, no sheen (medium dense, wet)	∇ ATD

Boring Completed 03/22/04
 Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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 Investigation
 Auburn, Washington

Log of Boring ASB0135

Figure
B-18

ASB0136

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
						Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0					[Pattern]	SM Light brown, silty, fine to medium SAND with gravel, rounded; no odor, no sheen (loose to medium dense, dry) (FILL)	
5	1	e3			[Pattern]	ML Light brown with trace oxidation, sandy SILT; no odor, no sheen (medium stiff, moist) (ALLUVIUM)	
10	2	e3			[Pattern]	SP-SM Light gray with trace red grains, fine to medium SAND with silt; no odor, no sheen (medium dense, moist)	
15	3	e3			[Pattern]	ML Light gray, sandy SILT; non-plastic; no odor, no sheen (medium stiff, moist to wet)	
					[Pattern]	SP-SM Gray with trace red grains, fine to medium SAND with silt; no odor, no sheen (medium dense, wet)	▽ ATD
						- grades to dark gray at 15 ft BGS	

Boring Completed 03/22/04
Total Depth of Boring = 17.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0136

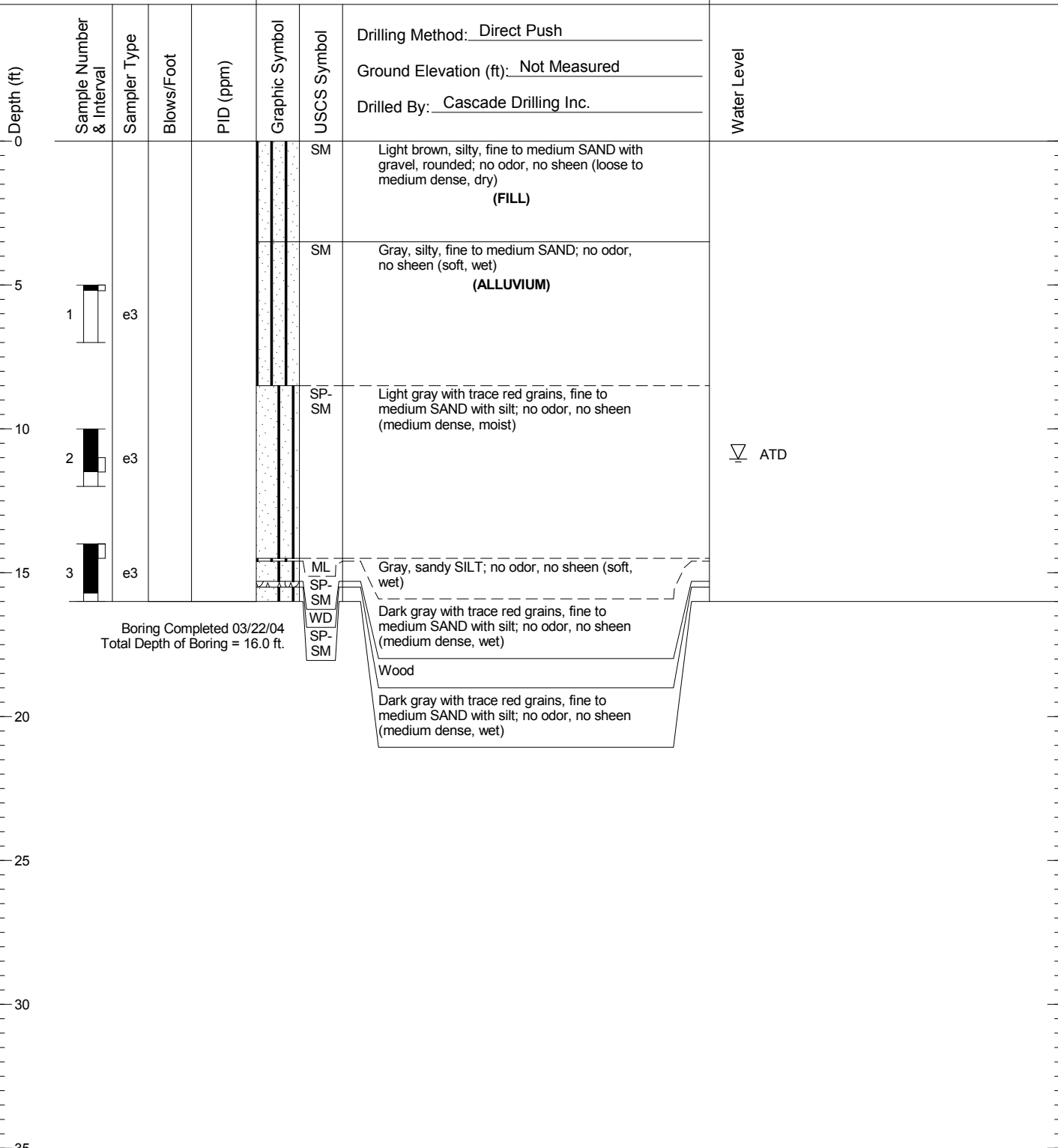
Figure
B-19

ASB0137

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

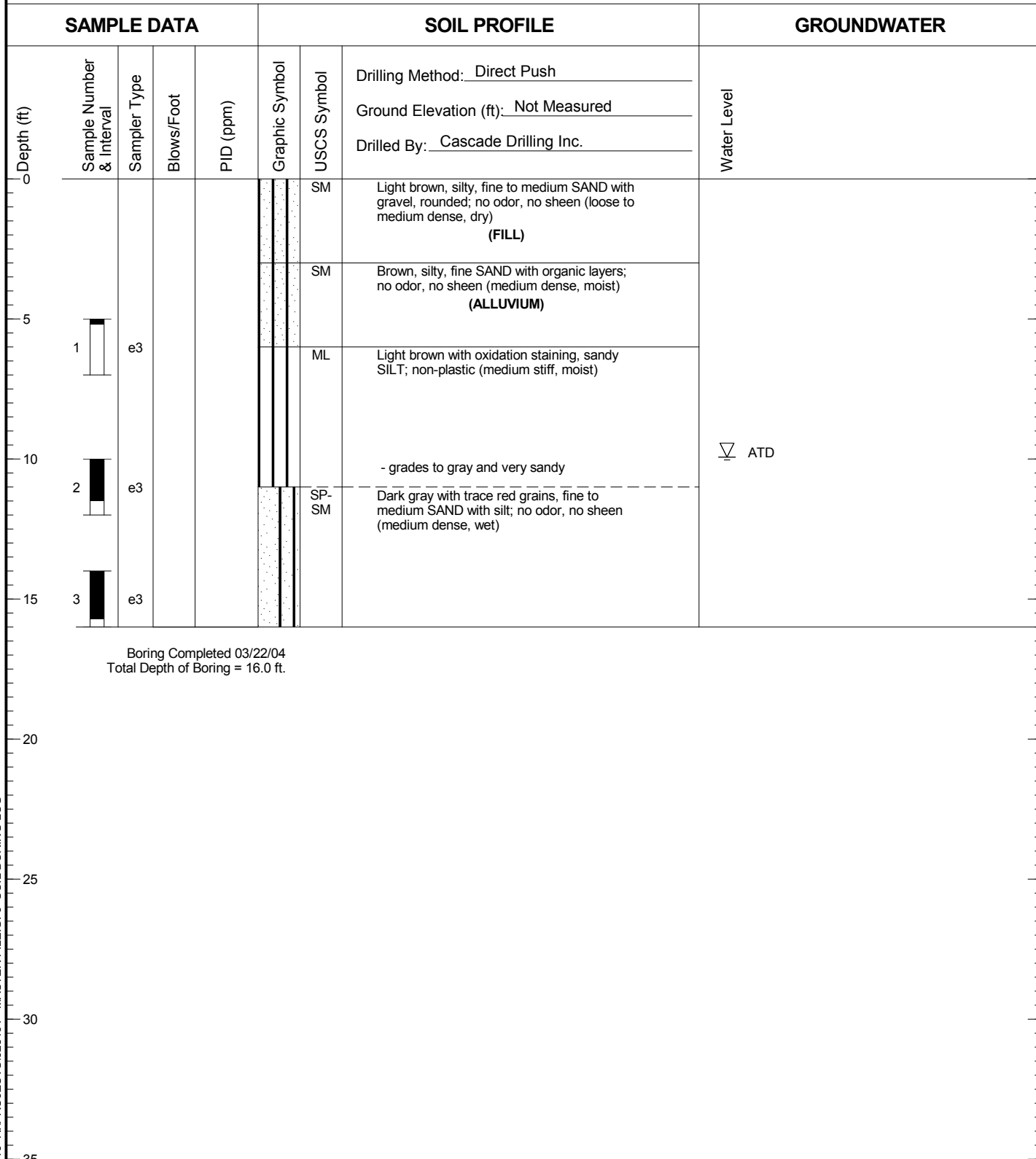


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Auburn, Washington

Log of Boring ASB0137

Figure
B-20

ASB0138



Boring Completed 03/22/04
Total Depth of Boring = 16.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0138

Figure
B-21

ASB0139

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft) 0 5 10 15 20 25 30 35	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
					SM	Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
	1	e3			SM	Light brown, silty, fine to medium SAND with gravel, rounded; no odor, no sheen (loose to medium dense, dry) (FILL)	
	2	e3			OL SP- SM	Gray with oxidation stains and black mottling, silty, fine SAND; no odor, no sheen (medium dense, moist) (ALLUVIUM) Medium brown, organic SILT; slightly plastic; no odor, no sheen (medium stiff, moist) Dark gray with trace red grains, fine to medium SAND with silt; no odor, no sheen (medium dense, wet) Light gray with trace red grains, fine SAND with silt (medium dense, damp to moist)	▽ ATD
3	e3						

Boring Completed 03/22/04
Total Depth of Boring = 16.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0139

Figure
B-22

ASB0140

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
0							
	1	e3			[Stippled Pattern]	SM	
						Light brown, silty, fine to medium SAND with gravel; no odor, no sheen (loose to medium dense, dry) (FILL)	
5					[Dotted Pattern]	SP-SM	
						Brown with trace red grains, fine to medium SAND with silt; no odor, no sheen (medium dense, moist) (ALLUVIUM) - grades gray and wet at 8 ft BGS	▽ ATD
10	2	e3			[Stippled Pattern]	SM	
						Brown, silty, fine to medium SAND; no odor, no sheen (medium dense, wet)	

Boring Completed 03/22/04
Total Depth of Boring = 12.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

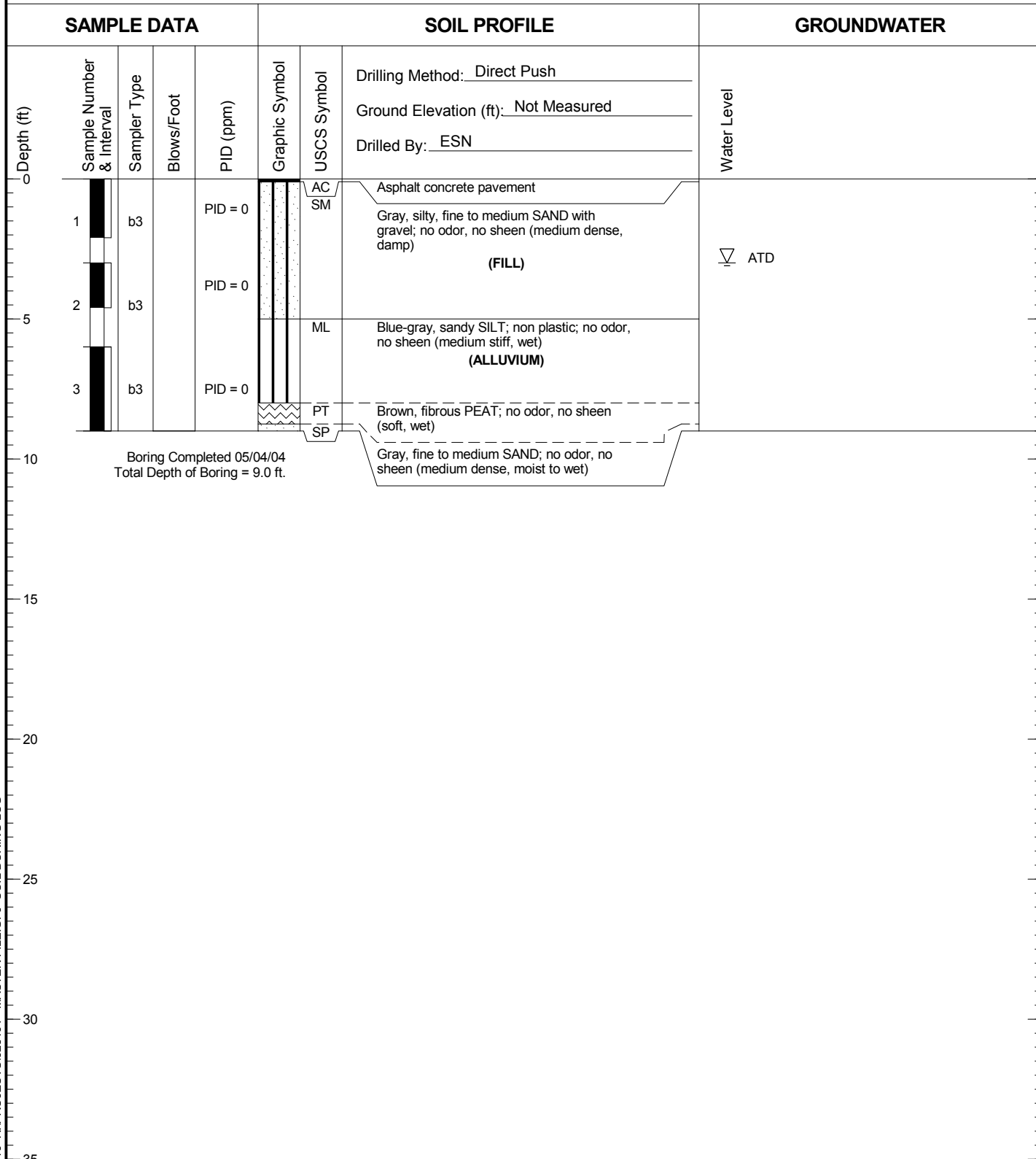


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Auburn, Washington

Log of Boring ASB0140

Figure
B-23

ASB0141



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0141

Figure
B-24

ASB0142

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
	Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>ESN</u>						
0				PID = 0	AC SM	Asphalt concrete pavement	
3	b3			PID = 0	SP- SM	Medium brown with trace red mottling, silty, fine to medium SAND with crushed rock; no odor, no sheen (medium dense, dry) (FILL)	
5	b3			PID = 0	ML	Gray with trace red grains SAND with silt and gravel; no odor, no sheen (medium dense, damp to dry) (ALLUVIUM)	
8	b3			PID = 0	PT ML	Gray, sandy SILT; non-plastic; no odor, no sheen (soft to medium stiff, moist)	
10	b3			PID = 0	SM/ ML	Dark brown, fibrous PEAT; no odor, no sheen (soft, wet)	
12	b3			PID = 0	SM/ ML	Light brown SILT with sand; no odor, no sheen; non plastic (medium stiff, moist)	▽ ATD
14	b3			PID = 0	SP- SM	Gray, interbedded fine to medium SAND and sandy SILT; no odor, no sheen (medium dense/medium stiff, moist)	
15	b3			PID = 0	SP- SM	Dark gray with trace red grains, fine to medium SAND with silt; no odor, no sheen (medium dense, wet)	

Boring Completed 05/04/04
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0142

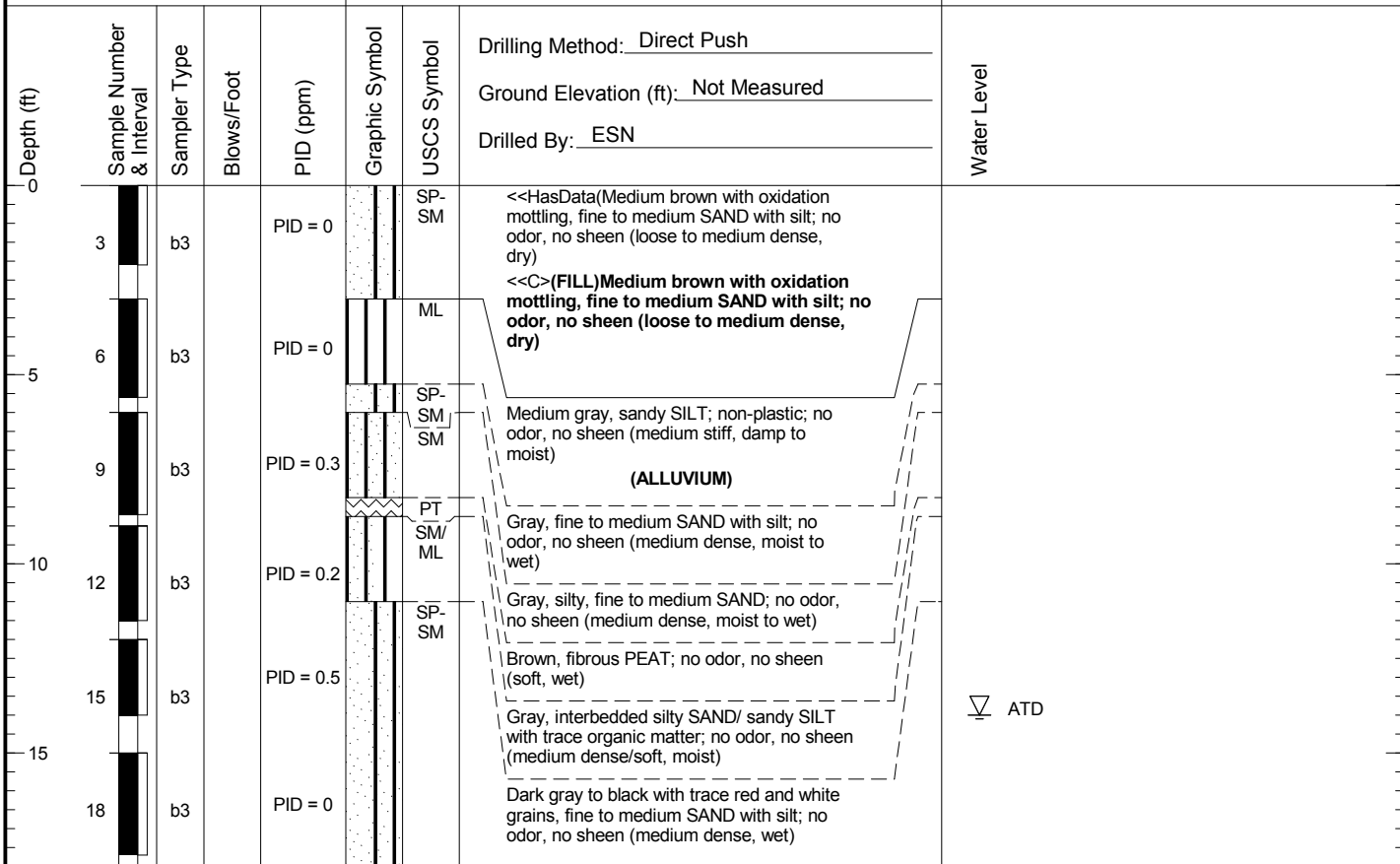
Figure
B-25

ASB0143

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/04/04
Total Depth of Boring = 18.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0143

Figure
B-26

ASB0144

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft) 0 5 10 15 20 25 30 35	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>ESN</u>	Water Level
	3	b3		PID = 0	[Symbol]	SP-SM	Medium brown with oxidation mottling, fine to medium SAND with silt; no odor, no sheen (loose to medium dense, dry) (FILL)	
	6	b3		PID = 0	[Symbol]	SP-SM	Gray, fine to medium SAND with silt and trace rounded gravel (medium dense, damp to moist) (ALLUVIUM)	
	9	b3		PID = 0.3	[Symbol]	PT	Brown, fibrous PEAT; no odor, no sheen (soft, wet)	
	12	b3		PID = 0	[Symbol]	SP-SM	Dark gray, fine to medium SAND with silt; no odor, no sheen (medium dense, damp)	
	15	b3		PID = 0.2	[Symbol]		- grades black to dark gray with trace red and white grains and moist to wet at 12 ft BGS	∇ ATD
	18	b3		PID = 0	[Symbol]	ML SP	Gray, sandy SILT; non-plastic, no odor, no sheen (soft to medium stiff, moist) Black with trace red grains, fine to coarse SAND with gravel; no odor, no sheen (medium dense, wet)	
Boring Completed 05/04/04 Total Depth of Boring = 18.0 ft.								

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



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Auburn, Washington

Log of Boring ASB0144

Figure
B-27

ASB0145

SAMPLE DATA			SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	
				Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>ESN</u>			
0					AC SM	Asphalt concrete pavement	Water Level
3	b3			PID = 0.2	SM	Brown, silty, fine to medium SAND with rounded gravel; no odor, no sheen (medium dense, dry)	
5					SM	(FILL)	
6	b3			PID = 0.2		Gray with trace red grains, silty, fine SAND; no odor, no sheen (medium dense, damp)	
9	b3			PID = 0.1		(ALLUVIUM)	
10					PT SP	Brown, fibrous PEAT with trace black mottling; no odor, no sheen (soft, wet)	
12	b3			PID = 0		Black to dark gray with trace red and white grains, fine to medium SAND with silt; no odor, no sheen (medium dense, moist to wet)	
15	b3			PID = 0		- grades wet at 13 ft BGS	
15						Pushed screen to 17 ft with no sample.	▽ ATD

Boring Completed 05/04/04
Total Depth of Boring = 17.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



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Log of Boring ASB0145

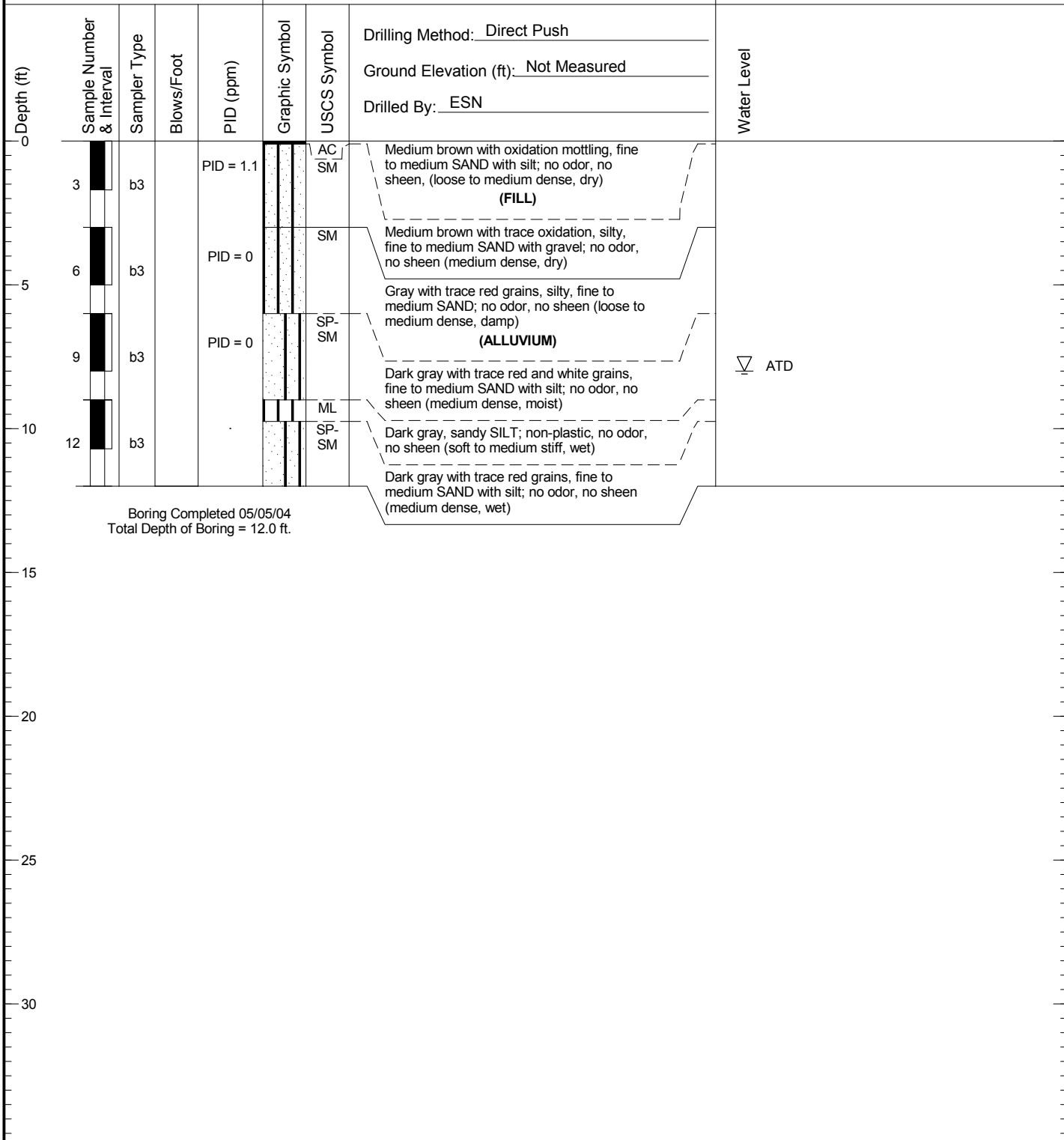
Figure
B-28

ASB0146

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/05/04
Total Depth of Boring = 12.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0146

Figure
B-29

ASB0147

SAMPLE DATA			SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol
				Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>ESN</u>		
0				PID = 1	AC SM	Asphalt concrete pavement
3	b3			PID = 0	SM	Brown, silty, fine to medium SAND with gravel; no odor, no sheen (medium dense, moist) (FILL)
5	6	b3		PID = 0		Dark gray, very silty, fine SAND; no odor, no sheen (loose to medium dense, moist) (ALLUVIUM)
9	b3			PID = 0.5	SP- SM	Black with trace red and white grains, fine to medium SAND with trace silt; slight odor, no sheen (medium dense, moist)
10	12	b3		PID = 1.8		- grades wet at 12 ft BGS
15	15	b3				▽ ATD

Boring Completed 05/05/04
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0147

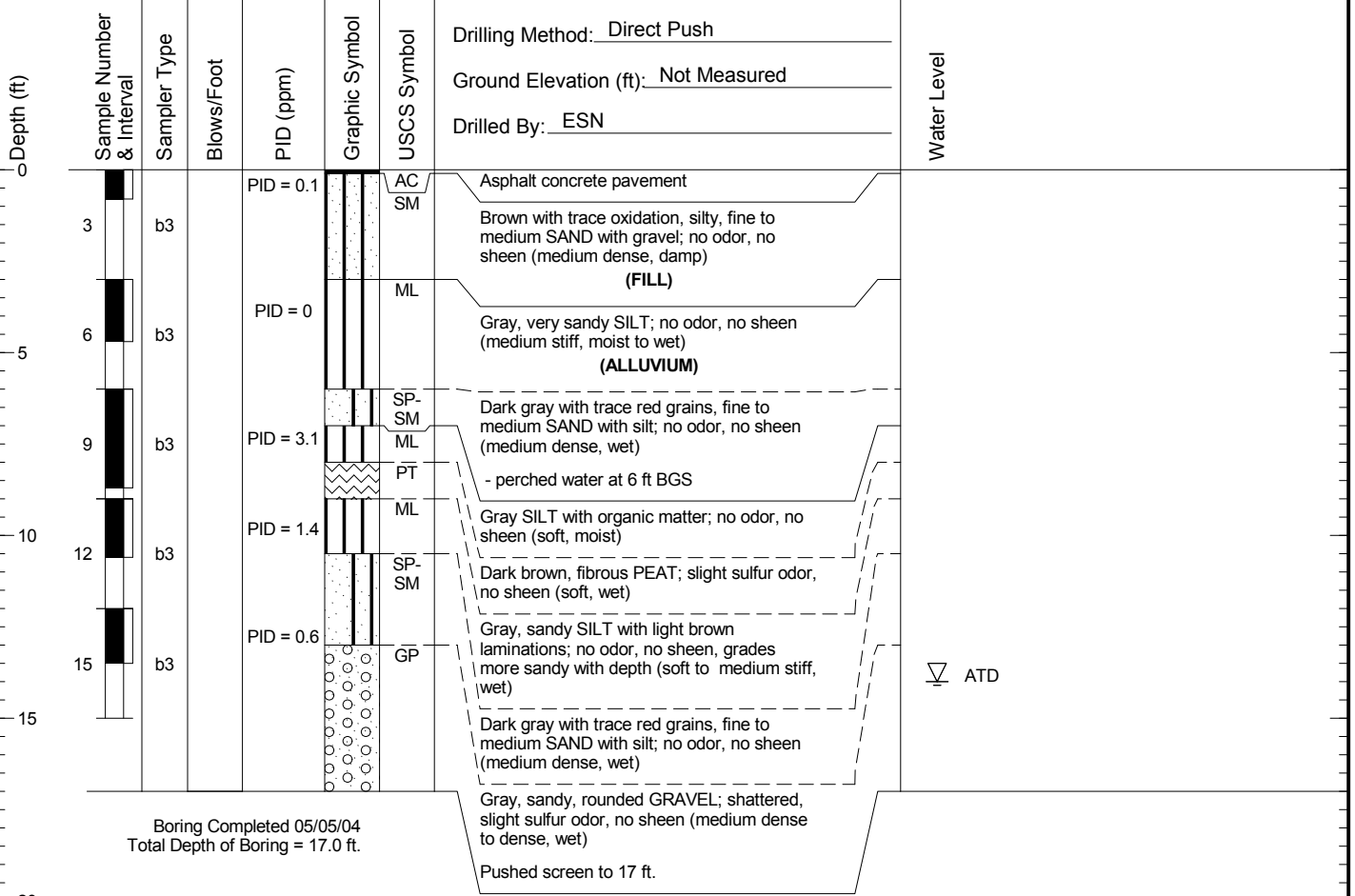
Figure
B-30

ASB0148

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/05/04
Total Depth of Boring = 17.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0148

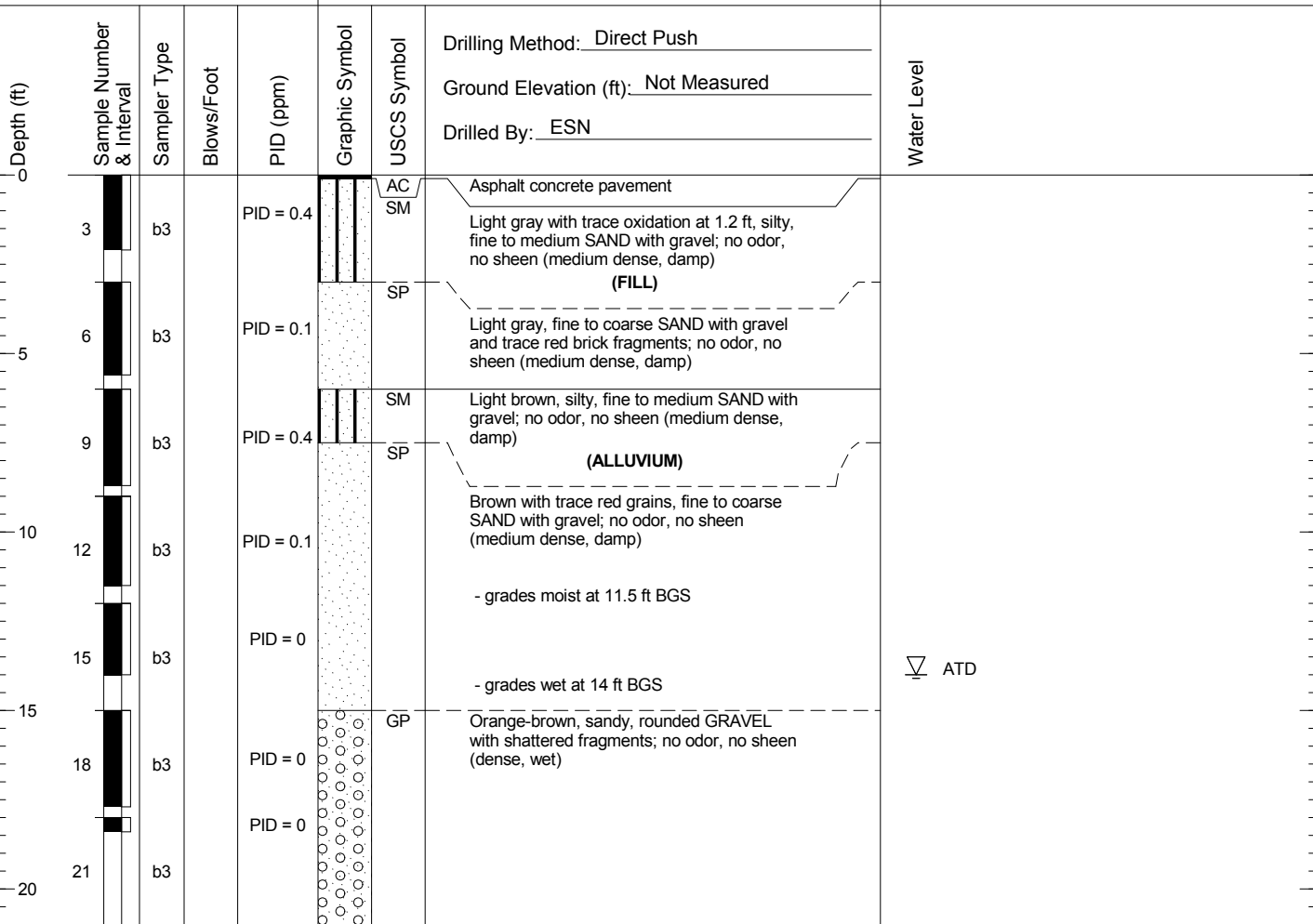
Figure
B-31

ASB0149

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/05/04
Total Depth of Boring = 21.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0149

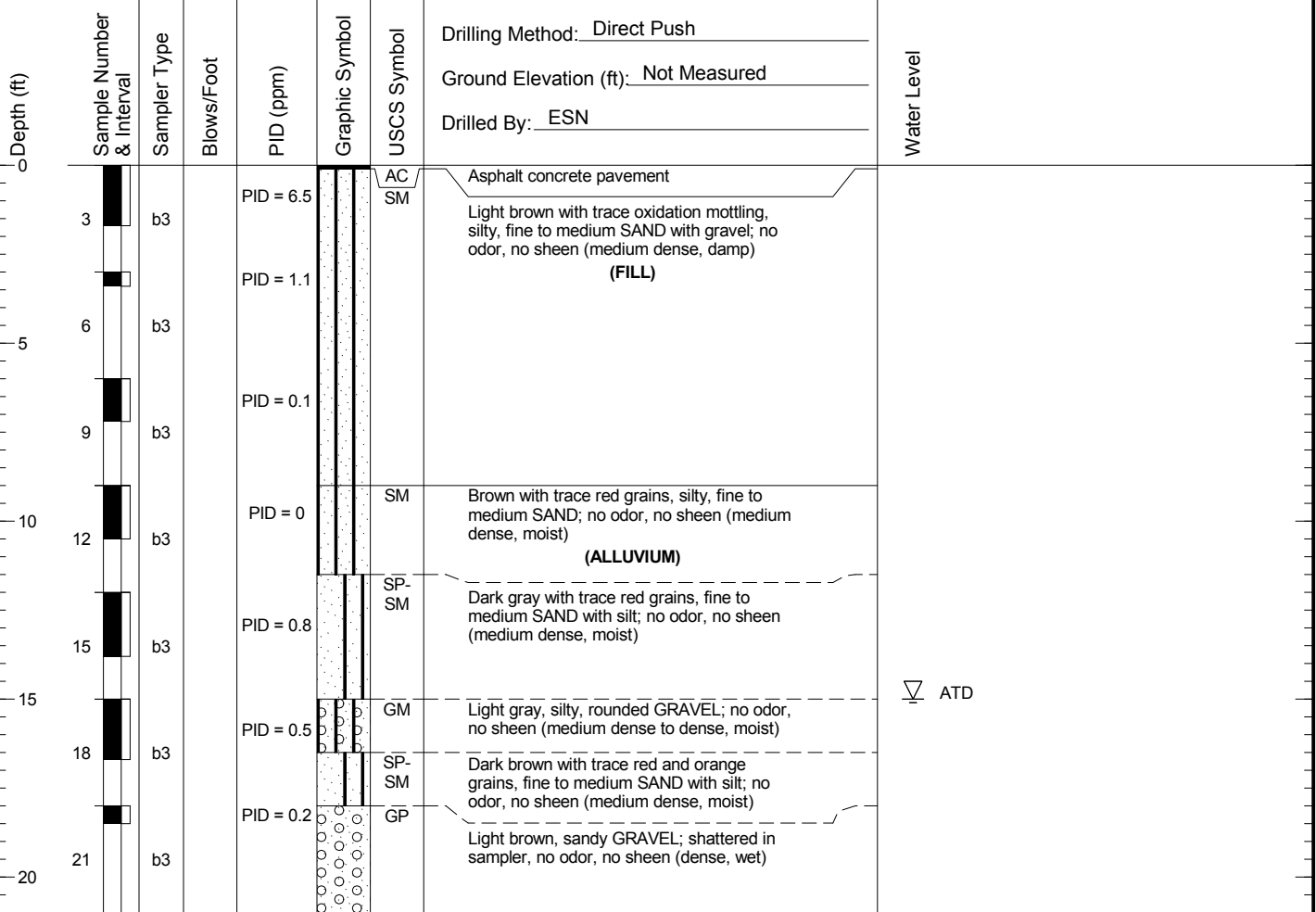
Figure
B-32

ASB0150

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/06/04
Total Depth of Boring = 21.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0150

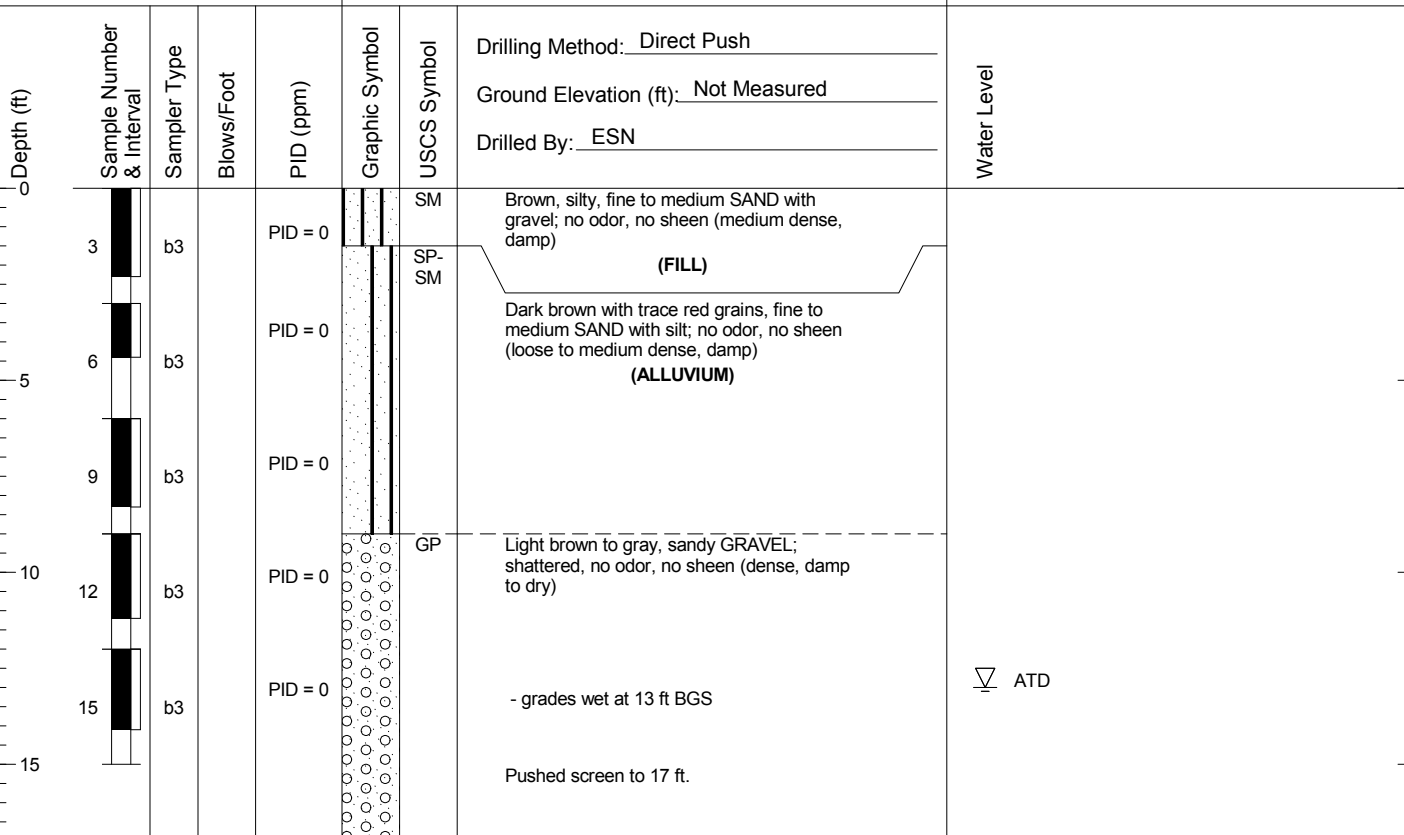
Figure
B-33

ASB0151

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/06/04
Total Depth of Boring = 17.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0151

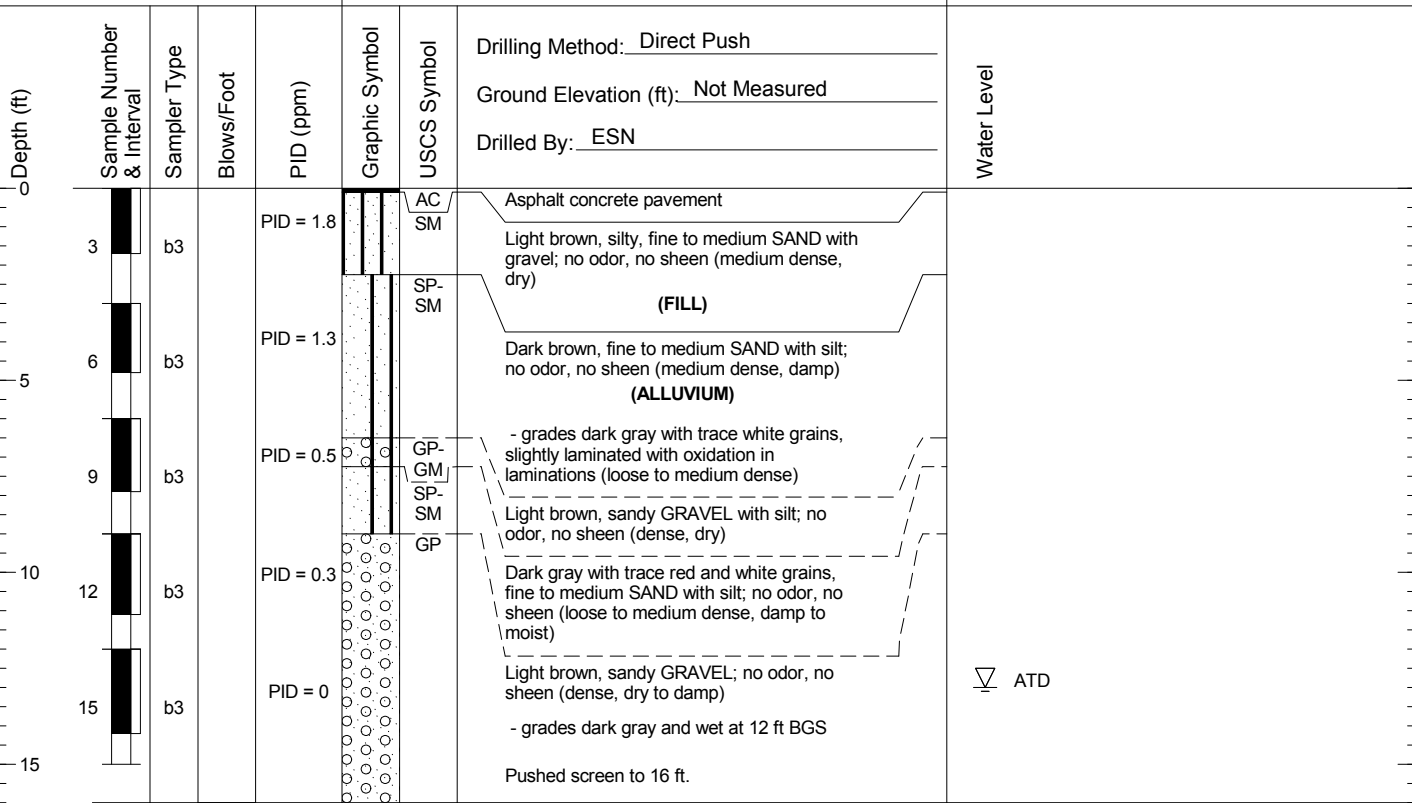
Figure
B-34

ASB0152

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 05/06/04
Total Depth of Boring = 16.0 ft.

▽ ATD

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0152

Figure
B-35

ASB0154

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0					●	PC	Portland cement concrete	
5					○	GP	Gray sandy, fine to coarse GRAVEL; no odor or sheen (medium dense to dense, dry) (ALLUVIUM)	
10					○			
15					○		- grades wet at 16 ft BGS	▽ ATD
20					○			

Boring Completed 08/23/04
Total Depth of Boring = 20.0 ft.

No sampling conducted, lithology logged by cuttings

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0154

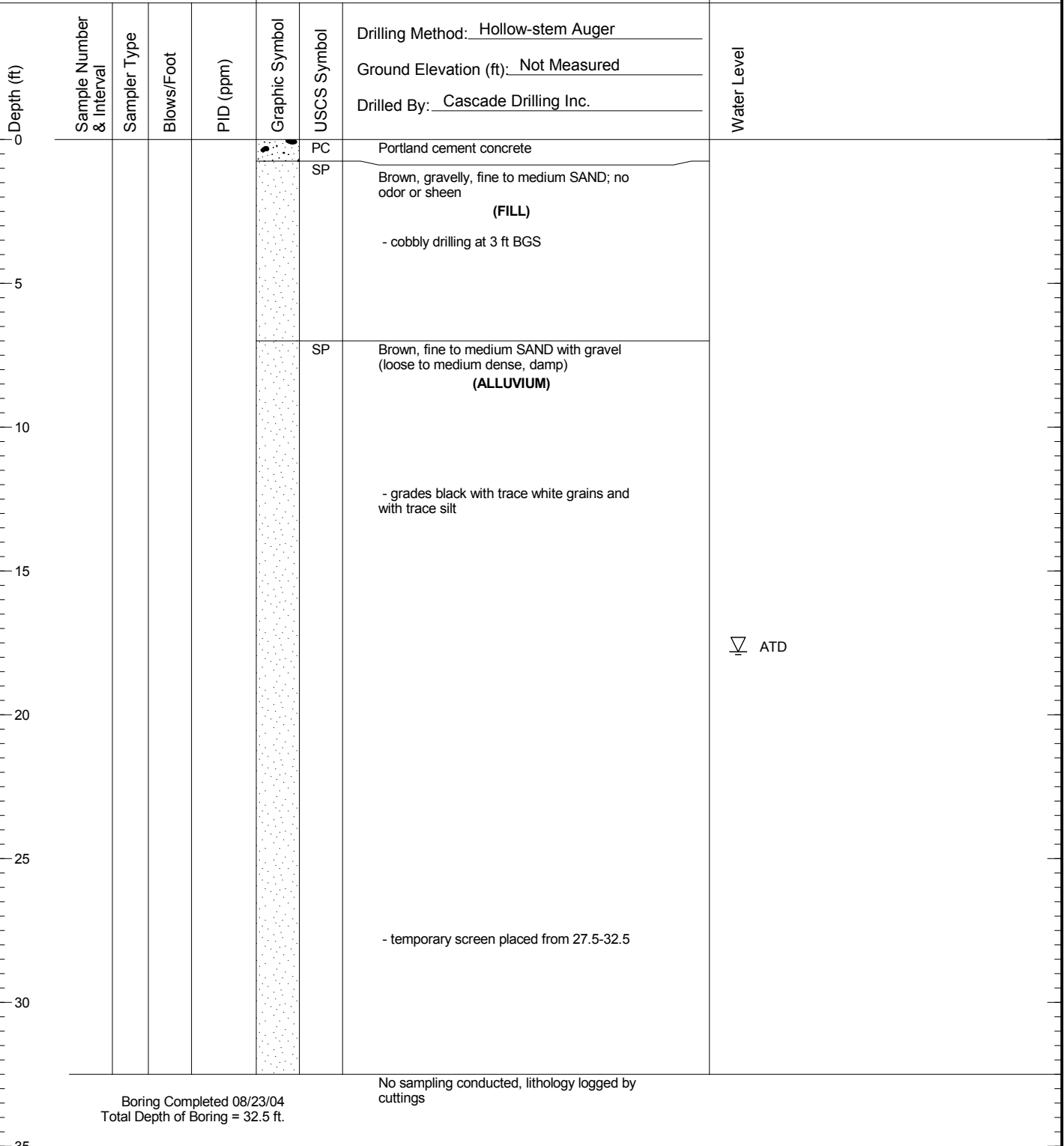
Figure
B-36

ASB0155

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 08/23/04
 Total Depth of Boring = 32.5 ft.

No sampling conducted, lithology logged by cuttings

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0155

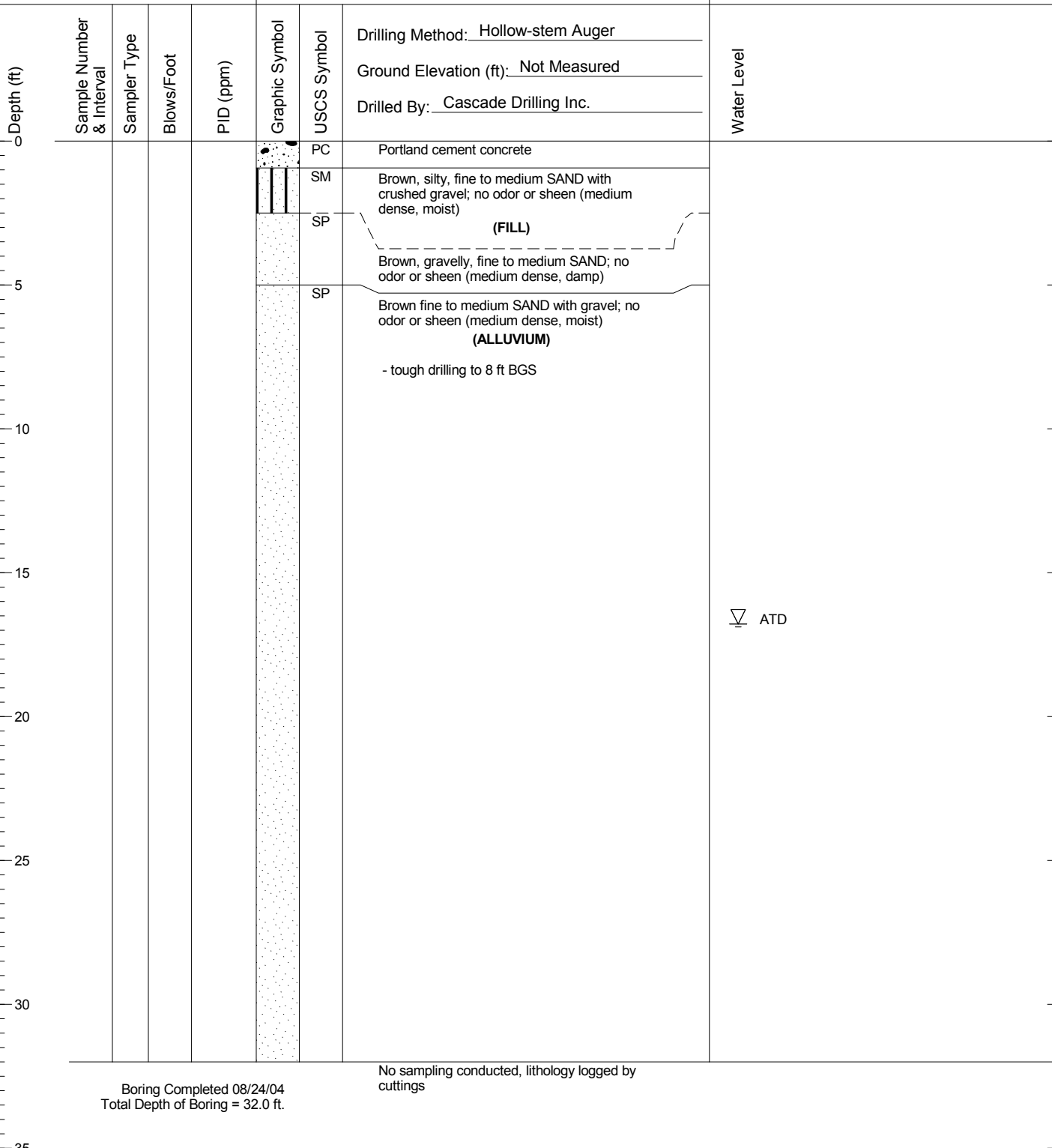
Figure
B-37

ASB0156

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 08/24/04
Total Depth of Boring = 32.0 ft.

No sampling conducted, lithology logged by cuttings

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Log of Boring ASB0156

Figure
B-38

ASB0157

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
0					●	PC	
					▬	SM	
					●	SP	
5					●		
10					●		
15					●		▽ ATD
20					●		

Drilling Method: Hollow-stem Auger
 Ground Elevation (ft): Not Measured
 Drilled By: Cascade Drilling Inc.

Portland cement concrete

Brown, silty, fine to medium SAND with gravel and cobble; no odor or sheen (medium dense, damp)
(FILL)

- cobbly drilling at 2 ft BGS

Dark brown, fine to medium SAND with trace silt and gravel; no odor or sheen (medium dense, damp)
(ALLUVIUM)

- grades black with trace white grains, loose to medium dense and moist to wet at 8 ft BGS

- wood fibers at 15 ft BGS

Boring Completed 08/24/04
 Total Depth of Boring = 20.0 ft.

No sampling conducted, lithology logged by cuttings

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



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 Auburn, Washington

Log of Boring ASB0157

Figure
B-39

ASB0158

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0					●	PC	Portland cement concrete	
0 - 4.5					▨	SM	Brown silty, fine to medium SAND with trace gravel, no odor or sheen (medium dense, damp) (FILL; - cobbly drilling at 4 ft BGS	
4.5 - 7.5					●	SP	Dark brown, fine to medium SAND with gravel and trace silt; no odor or sheen (medium dense, damp)	
7.5 - 33.0					○	GP	Brown, coarse, rounded, sandy GRAVEL; no odor or sheen (dense, damp to wet) (ALLUVIUM)	ATD

Boring Completed 08/25/04
Total Depth of Boring = 33.0 ft.

No sampling conducted, lithology logged by cuttings

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0158

Figure
B-40

ASB0159

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft) 0 5 10 15 20	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
				PID = 0	[Dotted Pattern]	PC	Portland cement concrete	
	ASB0159-16	f3		PID = 0	[Dotted Pattern]	SM	Brown, silty, fine to medium SAND with gravel; no odor or sheen (medium dense, damp) (FILL)	
				PID = 0	[Dotted Pattern]	SP-SM	Gray with trace white grains, fine SAND with trace silt; no odor or sheen (medium dense, damp) (ALLUVIUM) - grades brown-orange and fine to coarse at 9 ft BGS - grades dark brown, fine to medium SAND with gravel and trace silt at 11 ft BGS - grades medium brown with oxidized grains at 14 ft BGS	
	ASB0159-18	f3		PID = 0	[Circular Pattern]	GP	Gray to black, fine GRAVEL with sand; no odor or sheen (dense, wet)	▽ ATD

Boring Completed 08/30/04
Total Depth of Boring = 20.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0159

Figure
B-41

ASB0160R

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Description	Water Level
							Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0					●	PC	Portland cement concrete	
5	ASB0160R-5	a2	16	PID = 0	●	SM	Brown, silty, fine to medium SAND with gravel; no odor or sheen (loose, damp) (FILL)	
10		a2	23	PID = 0	●	SP	Dark brown with white grains, fine to medium SAND with trace gravel; no odor or sheen (loose, damp) (ALLUVIUM)	
15		a2	91	PID = 0	○	GP	Gray, sandy, rounded, coarse GRAVEL; no odor or sheen (dense, damp)	
17.5	ASB0160R-17.5	a2	50/6"	PID = 0	○	GP-GM	Gray, sandy, rounded, coarse GRAVEL with silt; no odor or sheen (dense, damp)	▽ ATD
20		a2	50/2"	PID = 0	○	GP-GM	- grades wet with moderate to heavy odor, moderate sheen at 17.5 ft BGS Temporary screen installed from 17-22 ft	
22			36		○	GP-GM		

Boring Completed 09/07/04
Total Depth of Boring = 22.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0160R

Figure
B-42

ASB0161

SAMPLE DATA		SOIL PROFILE			GROUNDWATER					
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Direct Push</u>	Ground Elevation (ft): <u>Not Measured</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
	ASB0161-6	f3		PID = 0	[Symbol]	PC SM	Portland cement concrete			
5	ASB0161-6	f3		PID = 45.2	[Symbol]	SP	Brown, silty, fine to medium SAND with gravel; no odor or sheen (medium dense, damp) (FILL)			
10	ASB0161-14	f3		PID = 50.9	[Symbol]		Gray, fine to medium SAND with trace silt; strong solvent-like odor, no sheen. (medium dense, moist) (ALLUVIUM)			
15	ASB0161-14	f3		PID = 26.6	[Symbol]					
15	ASB0161-16	f3		PID = 0	[Symbol]		- grades no odor or sheen and with gravel at 7 ft BGS			▽ ATD
20	Boring Completed 08/31/04 Total Depth of Boring = 19.0 ft.									

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0161

Figure
B-43

ASB0162

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Direct Push</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0					●	PC	Portland cement concrete	
5	ASB0162-6	f3		PID = 8.8	●	SP- SM	Brown, fine to medium SAND with gravel and silt; no odor or sheen (medium dense, damp) (FILL)	
10		f3		PID = 21.4	●	SP	Dark gray, fine to medium SAND with gravel and trace silt; no odor or sheen (medium dense, damp) (ALLUVIUM)	
15	ASB0162-15	f3			●	ML	Gray sandy SILT; non plastic (soft, moist)	
15		f3			●	SM/ ML	Medium gray, sandy SILT/ silty SAND; no odor or sheen (medium stiff to medium dense, wet)	
15		f3			●	SM/ ML	Medium gray, sandy SILT/ silty SAND, no odor or sheen (medium stiff to medium dense, wet)	▽ ATD
20		f3			●	SP	Black with trace red and white grains, fine to medium SAND with trace silt; no odor or sheen (medium dense) - temporary screen installed from 16-20 ft BGS	

Boring Completed 08/31/04
Total Depth of Boring = 20.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0162

Figure
B-44

ASB0163

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Direct Push</u>	Water Level
							Ground Elevation (ft): <u>Not Measured</u>	
						Drilled By: <u>Cascade Drilling Inc.</u>		
0				PID = 0	PC SM		Portland cement concrete	
	f3			PID = 0	[Pattern]		Brown with trace oxidation mottling, silty, fine to medium SAND with gravel; no odor or sheen (medium dense, damp) (FILL)	
5				PID = 0	SP		Gray, fine to medium SAND with gravel and trace silt; no odor or sheen (medium dense, damp) (ALLUVIUM)	
	f3			PID = 0	OL SP		Dark brown, organic SILT (soft, wet)	
	f3			PID = 0	ML		Olive gray, fine to medium SAND with gravel and trace silt; no odor or sheen (medium dense, damp)	
	f3			PID = 0	SP		Gray sandy SILT; non-plastic, no odor, no sheen (medium stiff, damp)	
10				PID = 0	SP		Black with trace white grains, fine to medium SAND with gravel and trace silt (medium dense, damp)	
15	ASB0163-14	f3		PID = 0	GP		Gray, fine to coarse, rounded GRAVEL with wood; no odor or sheen (dense, wet)	▽ ATD
20	ASB0163-17	f3		PID = 0	GP			

Boring Completed 08/31/04
Total Depth of Boring = 20.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
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 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
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Auburn, Washington

Log of Boring ASB0163

Figure
B-45

ASB0164R

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
				Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>			
0					AC	Asphalt concrete pavement	
5	ASB0164R-5	a2	43	PID = 0	SP-SM	Brown, fine to medium SAND with silt; no odor, no sheen (medium dense to dense, damp to dry) (FILL)	
10		a2	50/8"	PID = 0	SP	Black, fine to medium SAND with gravel; no odor or sheen (medium dense, dry) (ALLUVIUM)	
15		a2	50/3"	PID = 0			
20		a2	50/5"	PID = 0	GP	Gray to brown, coarse, rounded GRAVEL with sand and cobble; no odor or sheen (medium dense, damp)	▽ ATD
25		a2	50/0"	PID = 0			
30		a2	50/0"	PID = 0			
35	ASB0164R-19	a2	50/1"	PID = 0			
		a2	50/2"	PID = 0			

Boring Completed 09/02/04
Total Depth of Boring = 20.2 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



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Log of Boring ASB0164R

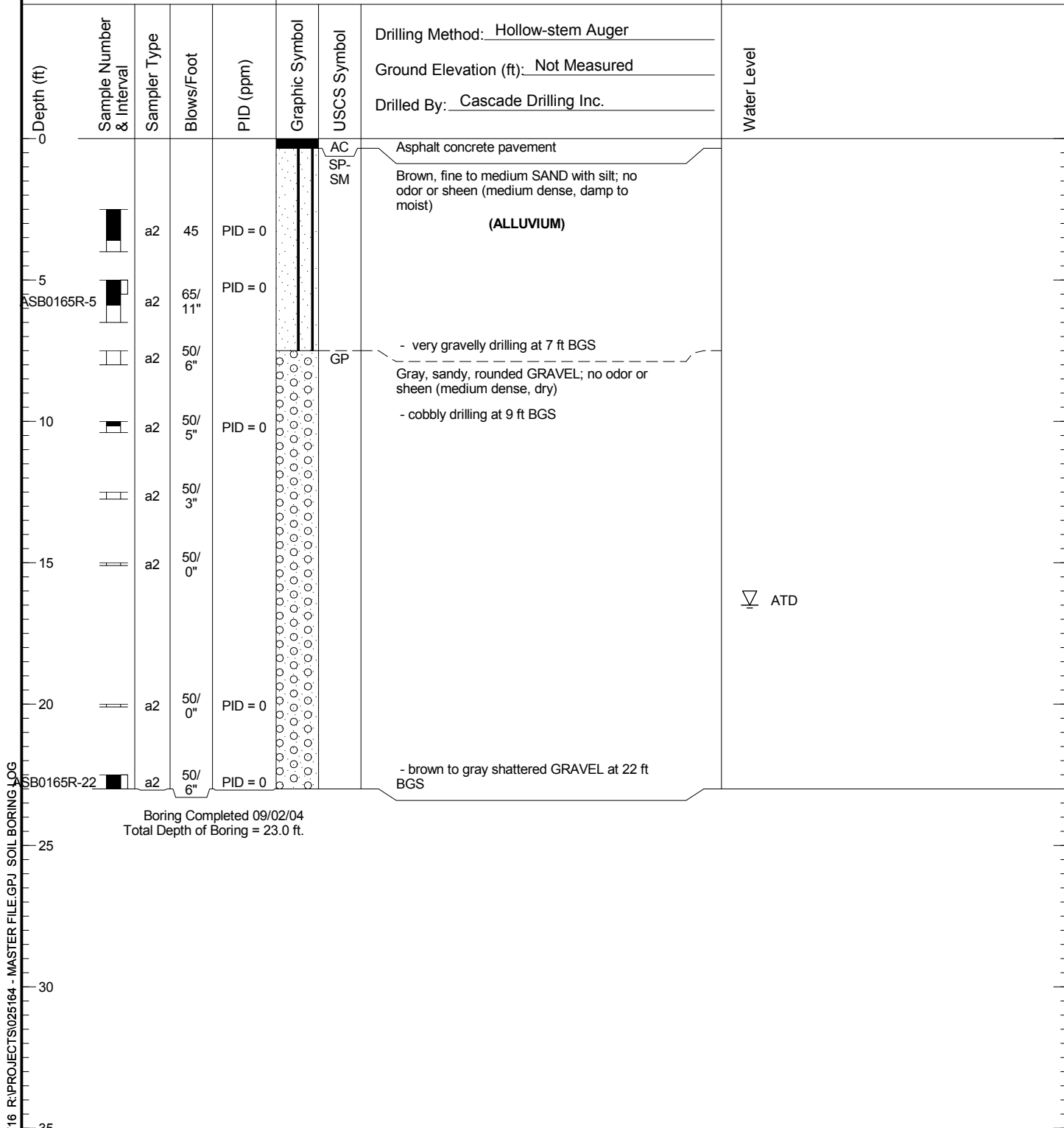
Figure
B-46

ASB0165R

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0165R

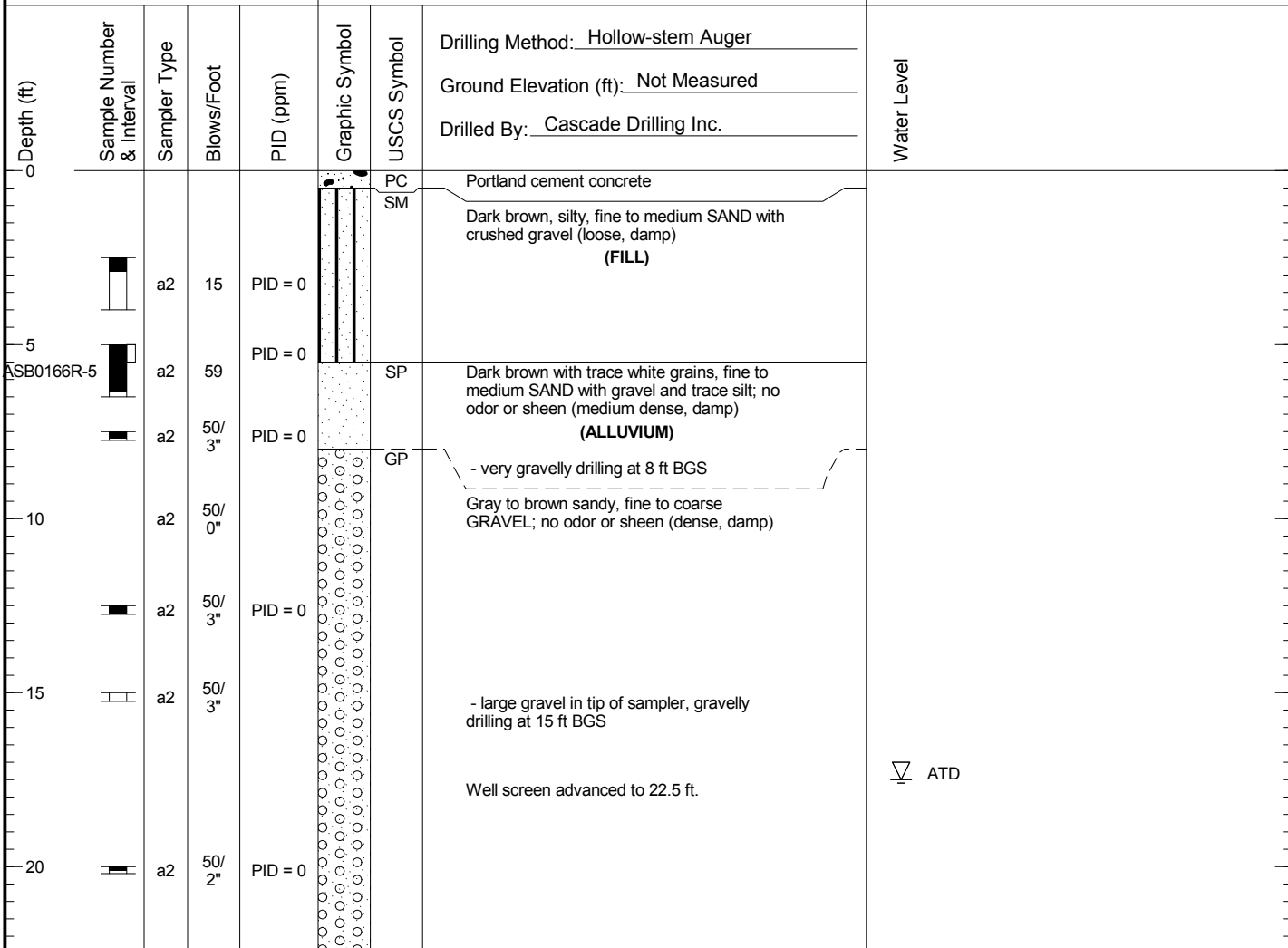
Figure
B-47

ASB0166R

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 09/02/04
Total Depth of Boring = 22.5 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0166R

Figure
B-48

ASB0167

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Description	Water Level
0						PC	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0 - 2.5						SP-SM	Portland cement concrete	
2.5 - 3.5						SM	Brown to gray, fine to coarse SAND with gravel and silt; no odor or sheen (loose to medium dense, dry) (FILL)	
3.5 - 4.5							Medium brown, silty, fine to medium SAND with gravel; no odor or sheen (loose, damp)	
4.5 - 5.5	ASB0167-5	a2	25	PID = 0				
5.5 - 6.5								
6.5 - 7.5						SP-SM	Black to dark brown, fine to medium SAND with gravel and trace silt; no odor or sheen (medium dense, damp) (ALLUVIUM)	
7.5 - 8.5								
8.5 - 9.5								
9.5 - 10.5								
10.5 - 11.5								
11.5 - 12.5								
12.5 - 13.5								
13.5 - 14.5								
14.5 - 15.5								
15.5 - 16.5	ASB0167-15	a2	53/6"	PID = 0				
16.5 - 17.5								
17.5 - 18.5								
18.5 - 19.5								
19.5 - 20.5								
20.5 - 21.5								
21.5 - 22.0	ASB0167-20	a2	50/5.5"	PID = 0				
22.0 - 23.0								
23.0 - 24.0								
24.0 - 25.0								
25.0 - 26.0								
26.0 - 27.0								
27.0 - 28.0								
28.0 - 29.0								
29.0 - 30.0								
30.0 - 31.0								
31.0 - 32.0								
32.0 - 33.0								
33.0 - 34.0								
34.0 - 35.0								

Boring Completed 09/07/04
Total Depth of Boring = 22.0 ft.

▽ ATD

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0167

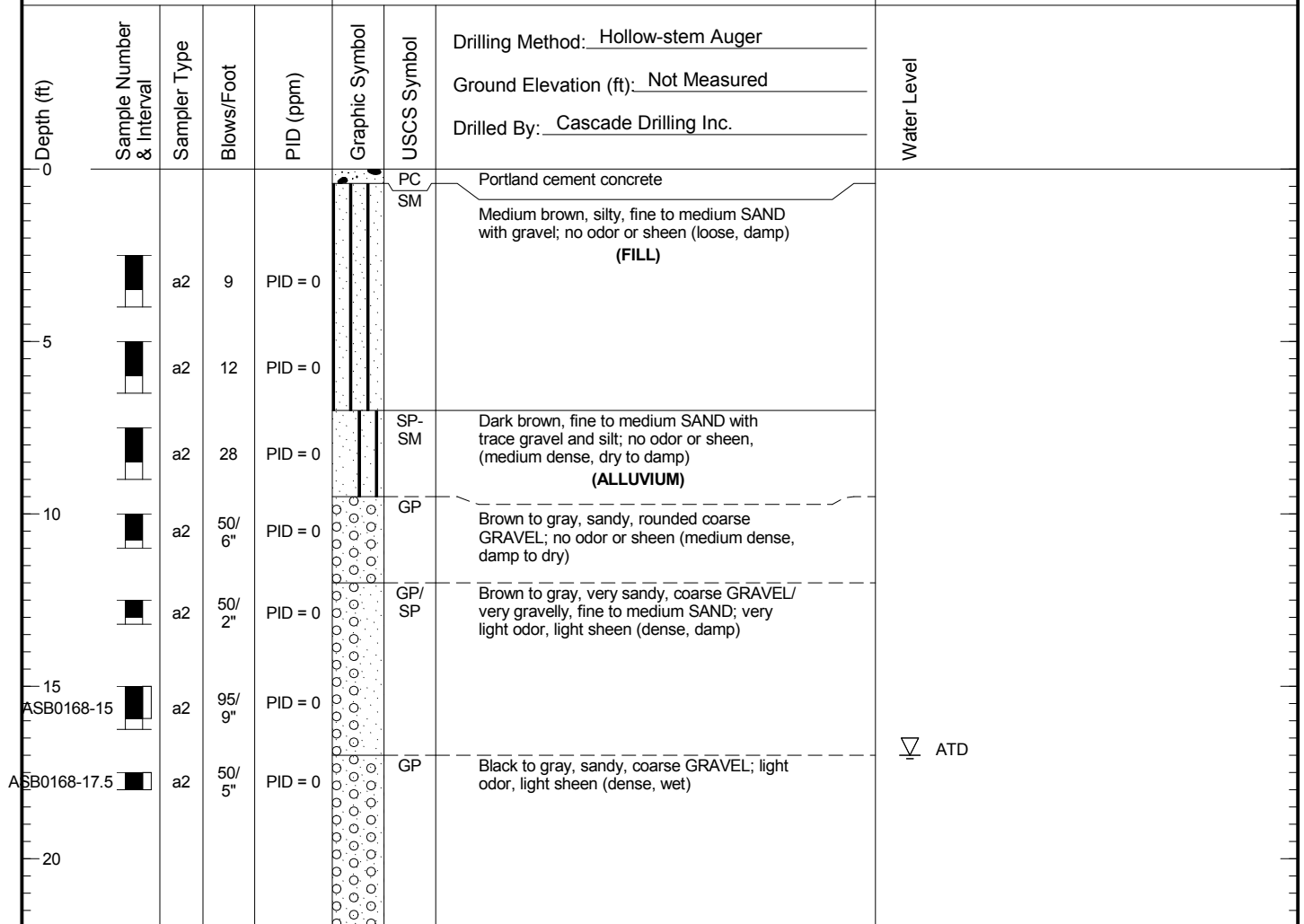
Figure
B-49

ASB0168

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 09/07/04
Total Depth of Boring = 22.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0168

Figure
B-50

ASB0169

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Description	Water Level
0							Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0 - 5	ASB0169-5	a2	18	PID = 0	PC		Portland cement concrete	
5 - 10		a2	50/1"	PID = 0	SM		Brown, silty, fine to medium SAND with gravel and cobble; no odor or sheen (loose, dry to damp) (FILL)	
10 - 15		a2	44	PID = 0	DB		Gray broken up concrete with rebar in cuttings	
15 - 20	ASB0169-15	a2	50/6"	PID = 0	SP-SM		Brown, gravelly, fine to medium SAND with silt; no odor or sheen (medium dense, damp) (ALLUVIUM)	
20 - 25		a2	50/5"	PID = 0			- grades dark brown with trace white grains, slight odor, light sheen at 12.5 ft BGS	
25 - 30	ASB0169-17.5	a2	87	PID = 0	GP		Brown to gray, sandy, rounded coarse GRAVEL; moderate odor, light sheen (dense, damp)	
30 - 35		a2	50	PID = 0	SP		Black, gravelly, fine to coarse SAND with trace silt; moderate odor, moderate sheen (dense, wet)	▽ ATD
35 - 40		a2	50/3"	PID = 0				

Boring Completed 09/08/04
Total Depth of Boring = 22.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0169

Figure
B-51

ASB0170

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Description	Water Level
							Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0					●	PC	Portland cement concrete	
0 - 4				PID = 0	▬	SM	Orange-brown silty, fine to medium SAND with gravel; no odor or sheen (medium dense to dense, dry to damp) (FILL)	
4 - 5	a2	a2	76	PID = 0	▬			
5 - 6	a2	a2	34	PID = 0	●	SP	Dark brown with trace white grains, fine to medium SAND with trace silt; no odor or sheen (medium dense, damp to dry) (ALLUVIUM)	
6 - 7	a2	a2	27	PID = 0	●			
7 - 8	a2	a2	32	PID = 0	●			
8 - 12	a2	a2	50/0"	PID = 0	○	GP-GM	Medium gray, sandy, fine to coarse GRAVEL with silt; moderate to strong odor, no sheen (medium dense, moist) - very gravelly drilling at 12 ft BGS - free product observed in sample at 15 ft BGS	
12 - 15	a2	a2	49	PID = 0	○			▽ ATD
15 - 17.5	ASB0170-15	a2		PID = 0	○			
17.5 - 20	ASB0170-17.5	a2	46	PID = 0	○		Screen advanced to 22 ft	

Boring Completed 09/09/04
Total Depth of Boring = 22.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPU SOIL BORING LOG



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Log of Boring ASB0170

Figure
B-52

ASB0171

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Description	Water Level
0					●	PC	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u> Portland cement concrete	
3.25	a2		27	PID = 0	▬	SM	Brown, silty, fine to medium SAND; no odor or sheen (loose, dry) (FILL) - Layer 0.5 ft thick, medium brown, sandy SILT at 3.25 ft BGS	
5	a2		19	PID = 0	▬			
7.5	a2		18	PID = 0	▬	SP	Brown with trace white grains, fine to medium SAND with trace silt; no odor or sheen (loose, dry to damp) (ALLUVIUM) - grades medium dense at 10 ft BGS	
10	a2		30	PID = 0	▬			
12.5	a2		78/0"	PID = 0	▬		- grades gray, gravelly, moderate to strong odor, moderate sheen (dense, damp) at 12.5 ft BGS	
15	ASB0171-15	a2	46	PID = 0	○	GP-GM	Gray, sandy, coarse GRAVEL with silt; moderate to strong odor, moderate sheen (medium dense, damp to moist)	▽ ATD
17.5	ASB0171-17.5	a2	56	PID = 0	○		- strong odor and wet at 17.5 ft BGS	
20					○			

Boring Completed 09/09/04
Total Depth of Boring = 22.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPJ SOIL BORING LOG

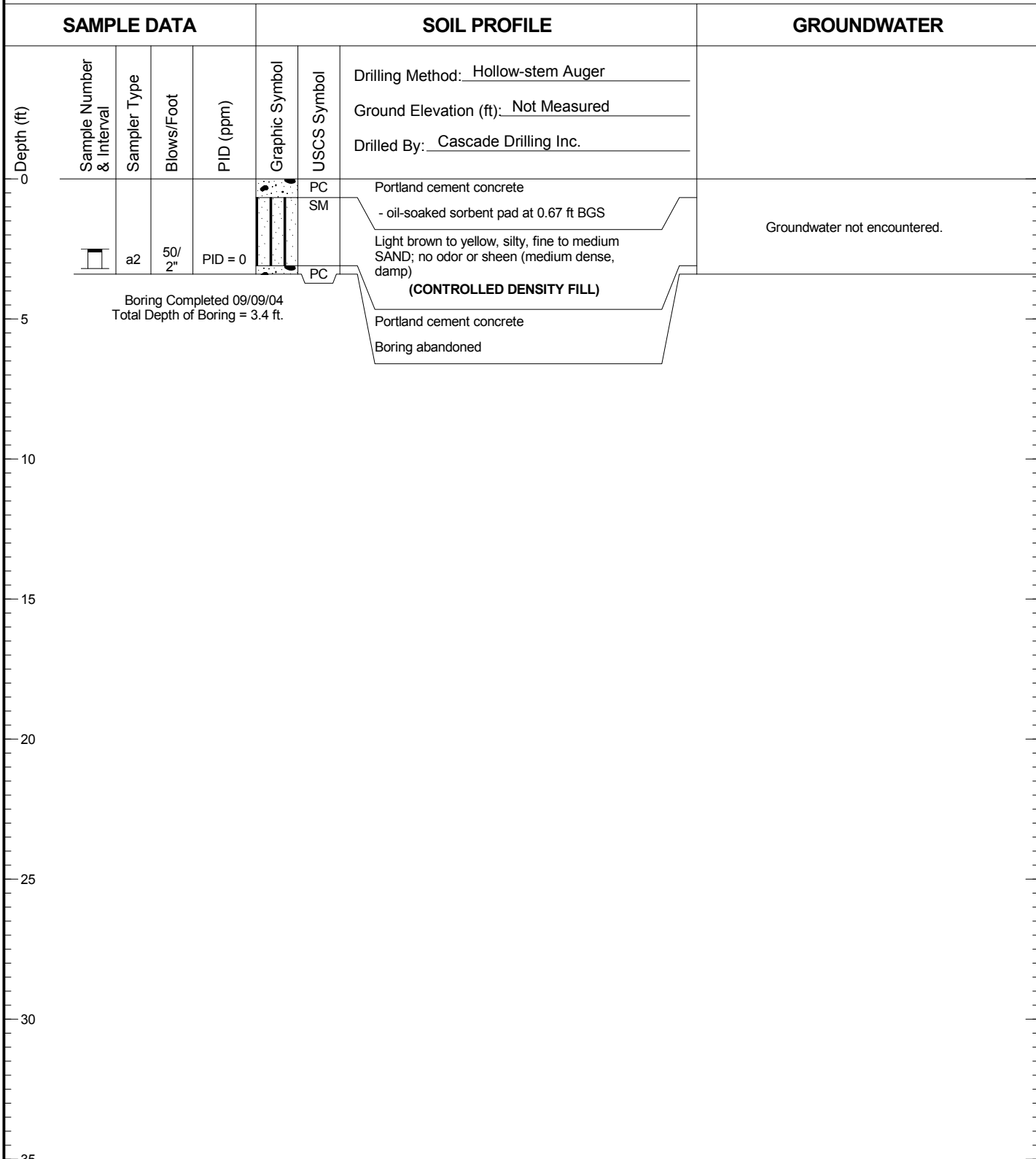


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Auburn, Washington

Log of Boring ASB0171

Figure
B-53

ASB0172



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0172

Figure
B-54

ASB0174

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)

Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>
						Vacuumed to 7 ft BGS for utility clearance
	a2	13	0		SP	Medium brown, fine to medium SAND with trace silt; no odor or sheen (medium dense, dry to damp)
	a2	35	0		SP	Dark brown iron oxide stained, fine to coarse SAND with trace silt and gravel ; no odor or sheen (dense, dry to damp) (FILL)
	a2	16	0		SP	Dark brown iron oxide stained, fine to coarse SAND with trace silt and gravel ; no odor or sheen (dense, dry to damp) (ALLUVIUM) - grades dark brownish-black with trace orange and white grains, medium dense
	a2	22	0		SP	Dark brownish-gray, gravelly, fine to medium SAND with trace silt; no odor or sheen (medium dense, damp)
	a2	50/ 6"	0		GP	Gray, sandy, fine GRAVEL; no odor or sheen (very dense, wet)

Groundwater not encountered.

Boring Completed 08/10/05
Total Depth of Boring = 17.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0174

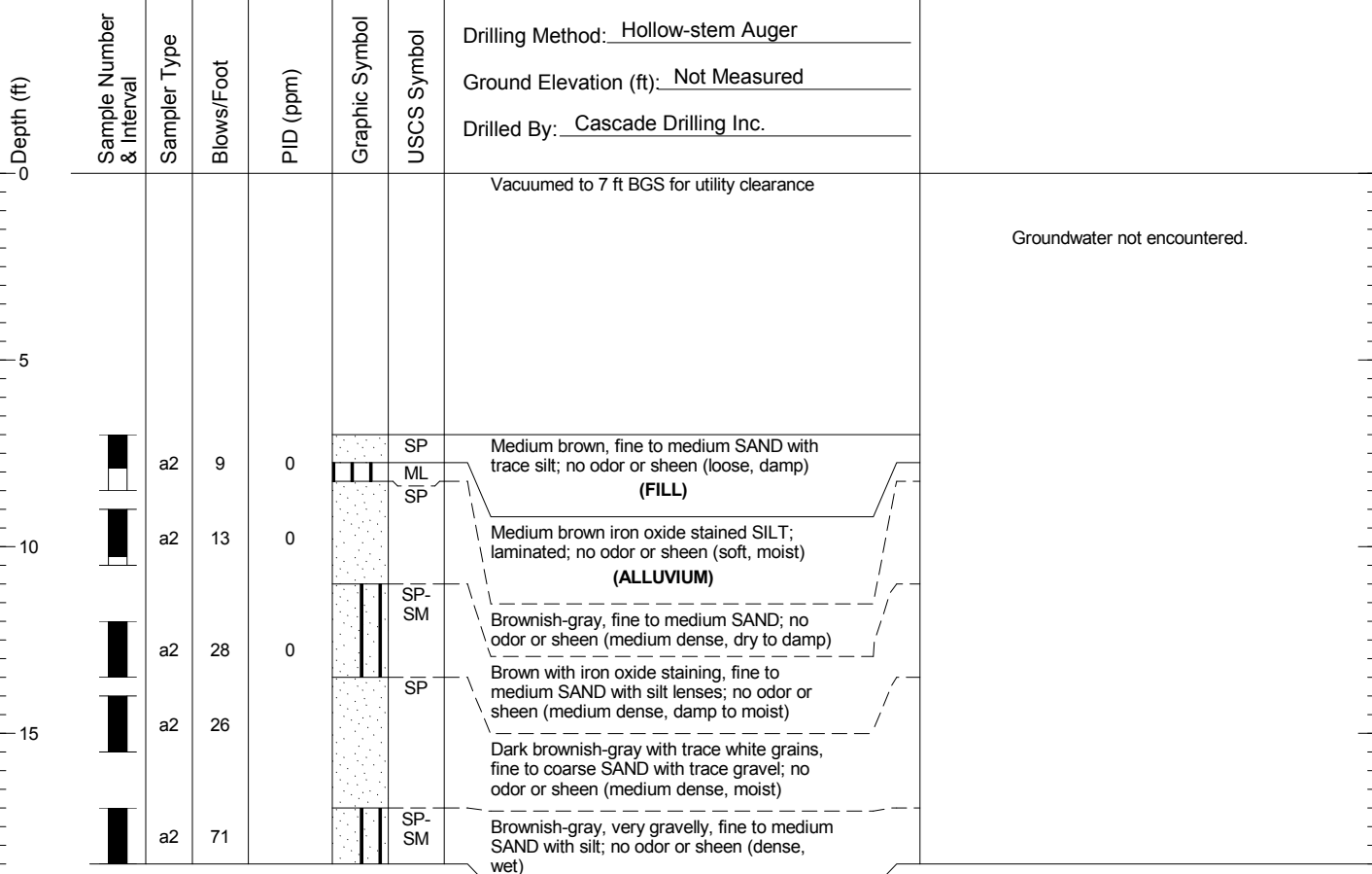
Figure
B-55

ASB0175

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Groundwater not encountered.

Boring Completed 08/10/05
Total Depth of Boring = 18.5 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0175

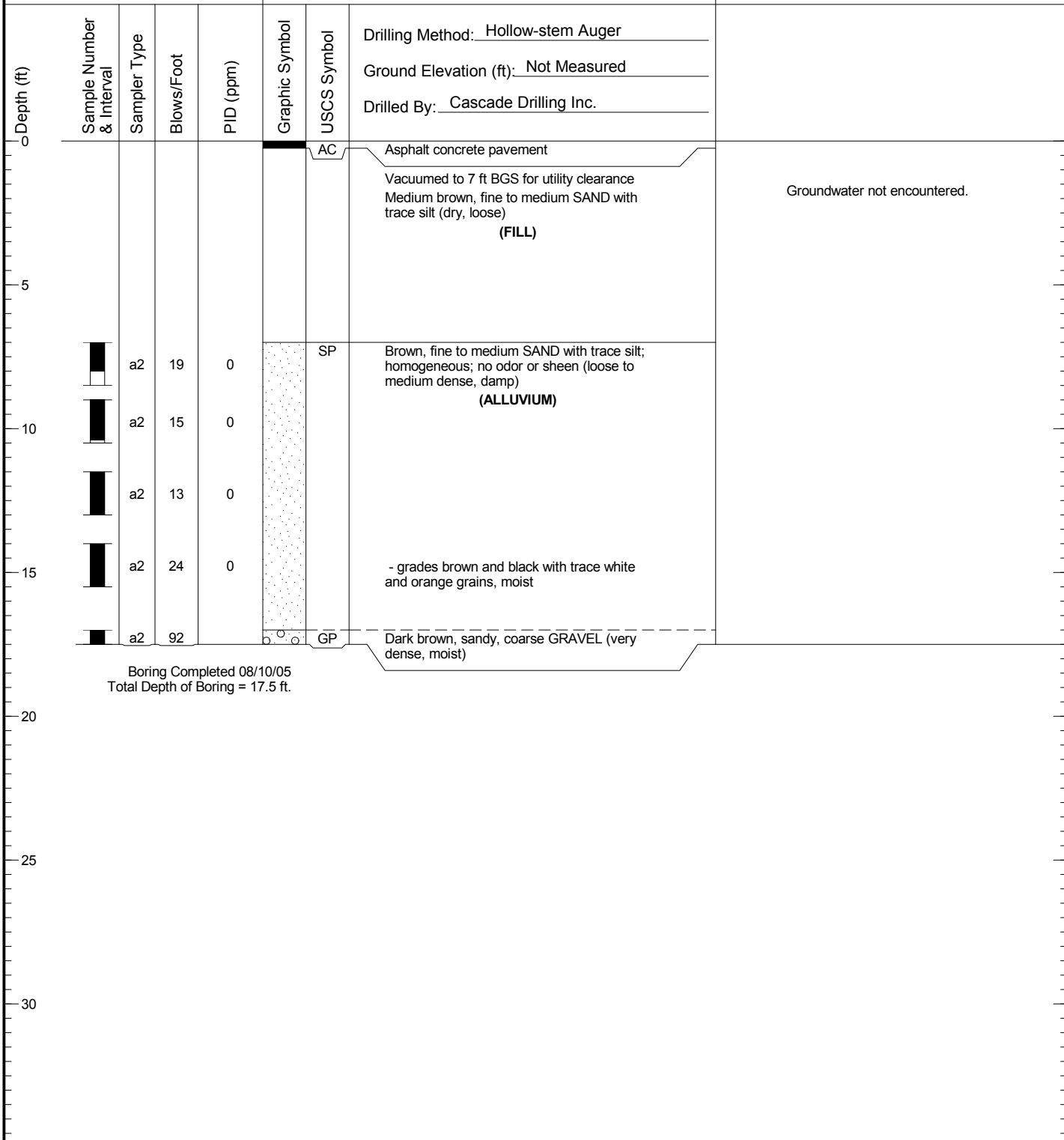
Figure
B-56

ASB0176

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0176

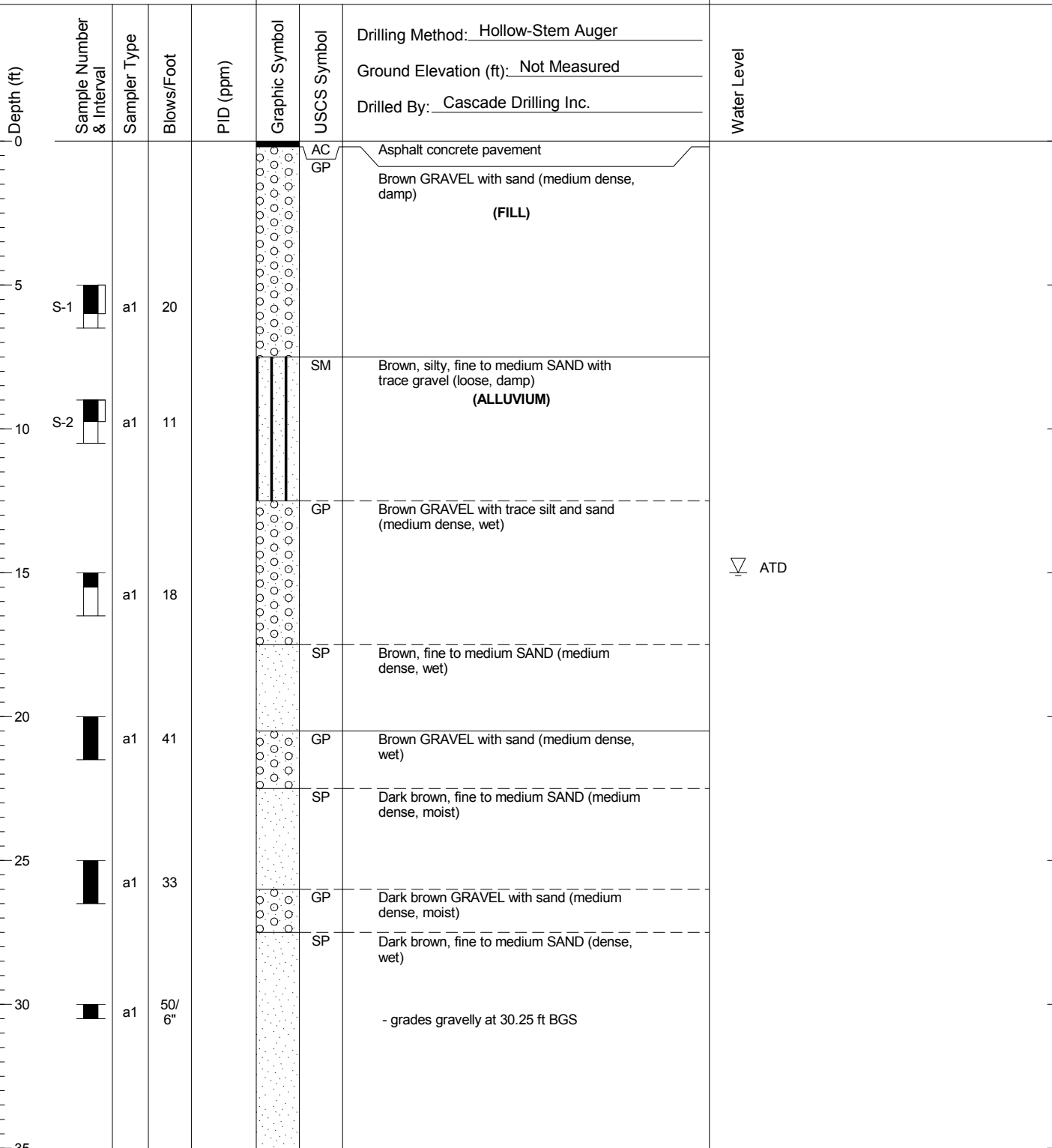
Figure
B-57

ASB0177

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG


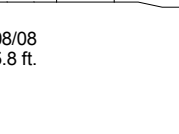



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Log of Boring ASB0177

Figure
B-58
(1 of 2)

ASB0177

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
35	a1	a1	19			SP	
40	a1	a1	50/5"				
45	a1	a1	50/3"				

Boring Completed 09/08/08
Total Depth of Boring = 45.8 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



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Auburn, Washington

Log of Boring ASB0177

Figure
B-58
(2 of 2)

ASB0178

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
				Drilling Method: <u>Hollow-Stem Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>			
0					AC SP	Asphalt concrete pavement	
1	S-1	a1	26			Brown, fine to coarse SAND with gravel and trace silt (medium dense, damp) (FILL) - grades loose at 8.5 ft BGS	
2	S-2	a1	18				
3	S-3	a1	30				
4	S-4	a1	26				
5	S-5	a1	30				
6	S-6	a1	6				
7	S-7	a1	8				
8	S-8	a1	26				
9	S-9	a1	32				
10	S-10	a1	33				
11	S-11	a1	32				
12	S-12	a1	23				
13	S-13	a1	24				
14					ML SP	Brown SILT (very stiff, damp) (ALLUVIUM)	ATD
15	S-10	a1	33		Brown, fine to coarse SAND with gravel and trace silt (medium dense, damp) - grades moist at 15.5 ft BGS		
16	S-11	a1	32				
17	S-12	a1	23				
18	S-13	a1	24				
19						- grades wet at 18.5 ft BGS	

Boring Completed 08/04/08
Total Depth of Boring = 20.5 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0178

Figure
B-59

ASB0179

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft) 0 5 10 15 20 25 30 35	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc. JMN</u>						
	Run 1	e4		0.0	AC GP SM	Portland concrete cement 3/4" minus base coarse Brown, silty, fine SAND (moist)	
	Run 2	e4		0.0	SP- SM	Gray, gravelly, fine to coarse SAND with silt (moist) - collected soil sample at 6 ft BGS	
	Run 3	e4		0.0		- 4" silty fine sand lens - grades fine to coarse gravel	
	Run 4	e4		0.0			
	Run 5	e4		0.0		- grades wet - collected soil sample at 17 ft BGS	∇ ATD
Run 6	e4		0.0				
Boring Completed 10/01/09 Total Depth of Boring = 19.0 ft.							
Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate. 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions. 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.							

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0179

Figure
B-60

ASB0180

SAMPLE DATA		SOIL PROFILE			GROUNDWATER			
Depth (ft) 0 2 4 6 8 10 12	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hand Auger</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>LAI</u>	Groundwater not encountered.
	S1	d			AC		Asphalt concrete pavement	
					GP		3/4" minus base coarse	
					SP-SM		Brown, gravelly, fine-medium SAND with silt (dry)	
					SM		Brown iron oxide mottled, silty, fine SAND with gravel (dry) - grades without gravel	
							- collected soil sample at 4 ft BGS	

Boring Completed 09/30/09
Total Depth of Boring = 4.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0180

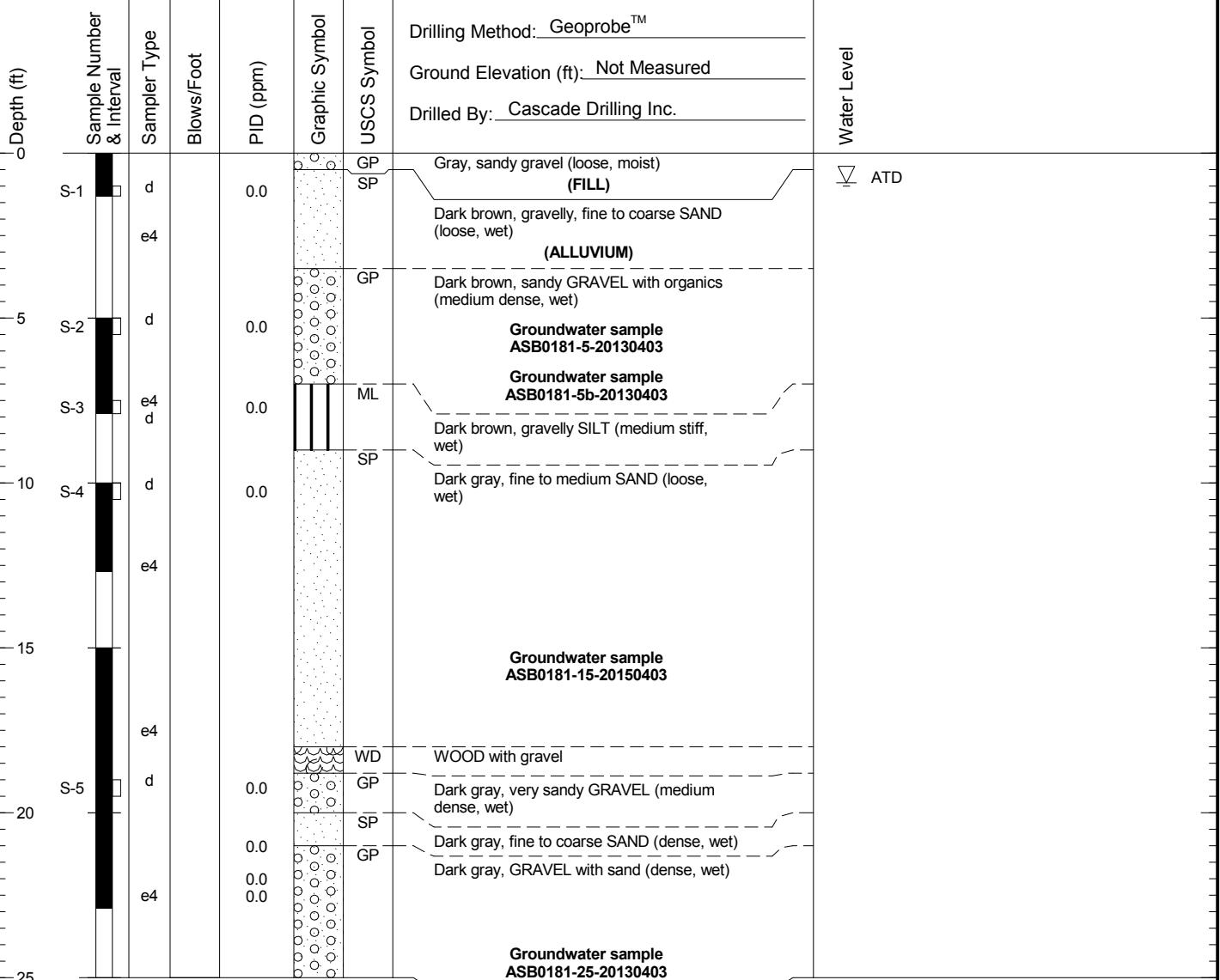
Figure
B-61

ASB0181

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/03/13
 Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-11.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPU SOIL BORING LOG



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 Auburn, Washington

Log of Boring ASB0181

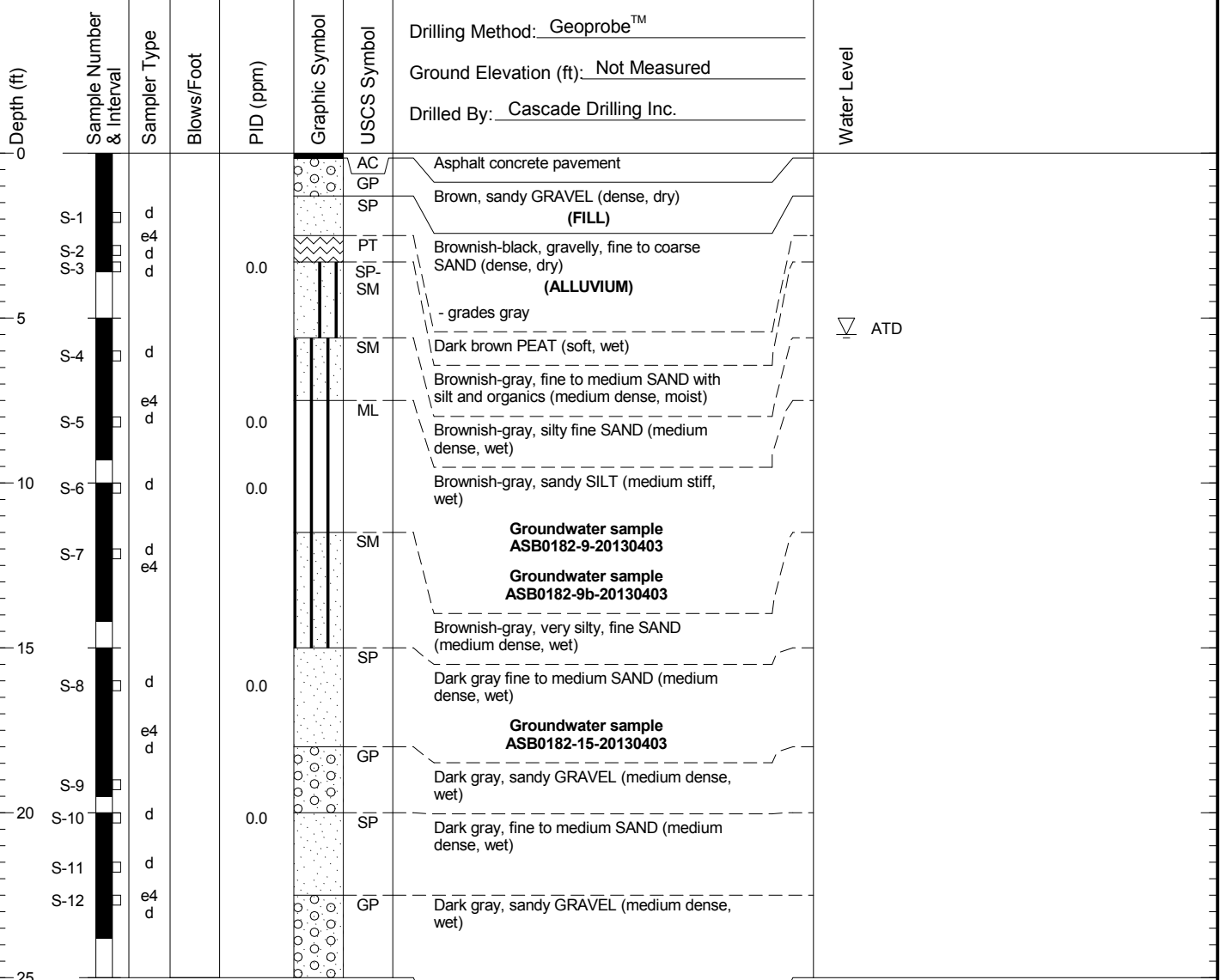
Figure
B-62

ASB0182

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/04/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-3.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

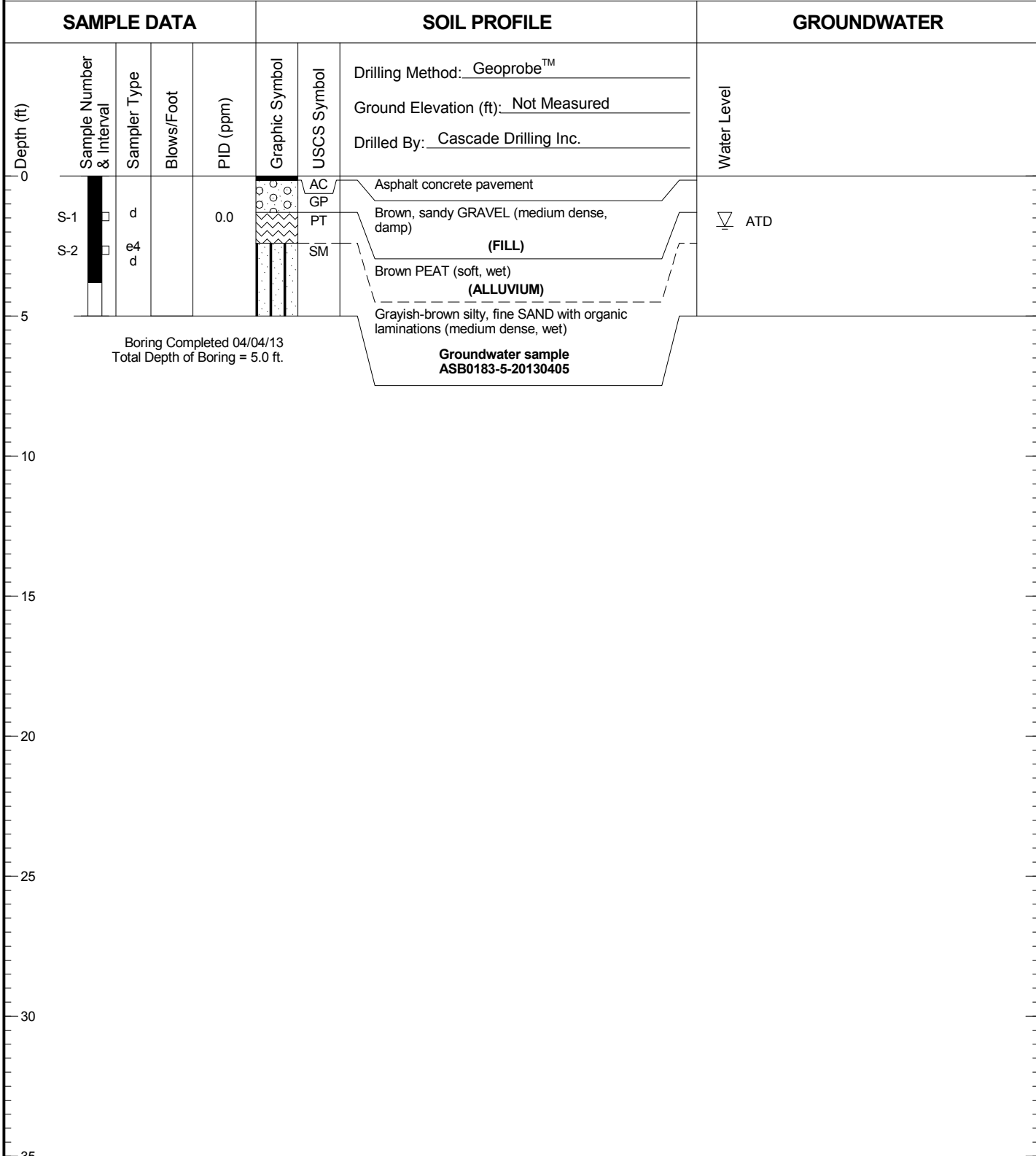


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Auburn, Washington

Log of Boring ASB0182

Figure
B-63

ASB0183



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-8.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0183

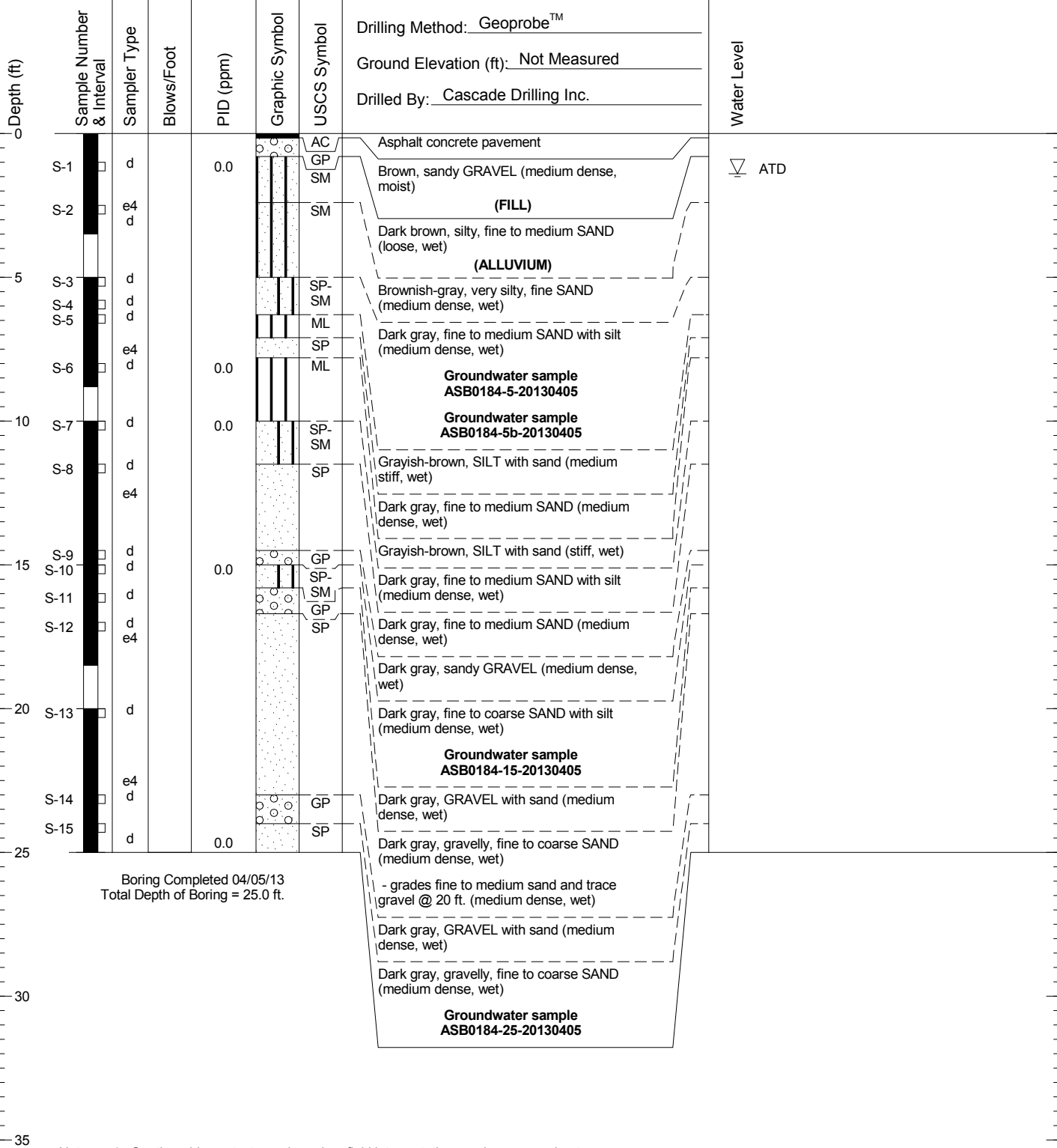
Figure
B-64

ASB0184

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/05/13
 Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-10.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

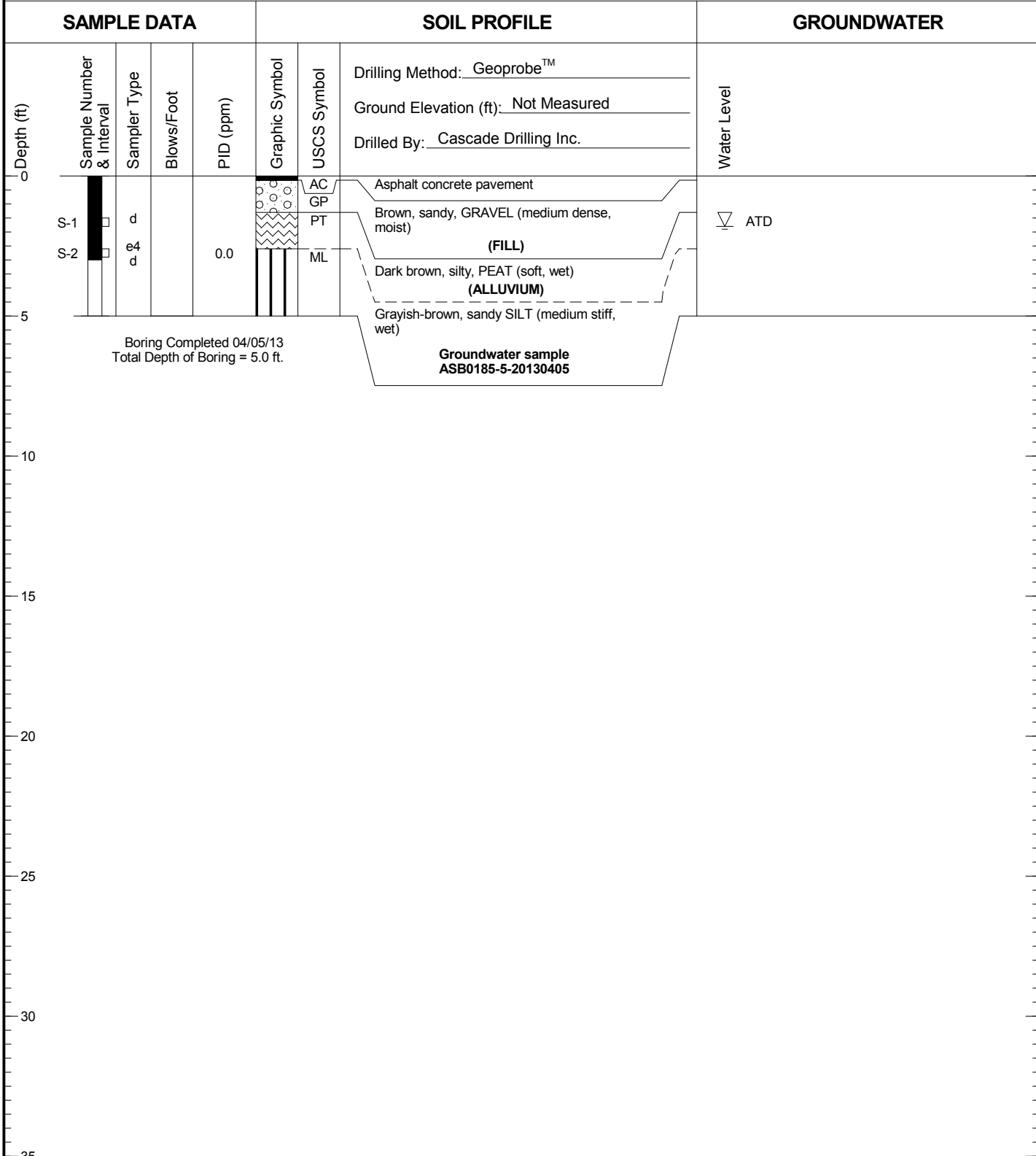


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 Investigation
 Auburn, Washington

Log of Boring ASB0184

Figure
B-65

ASB0185



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-19.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0185

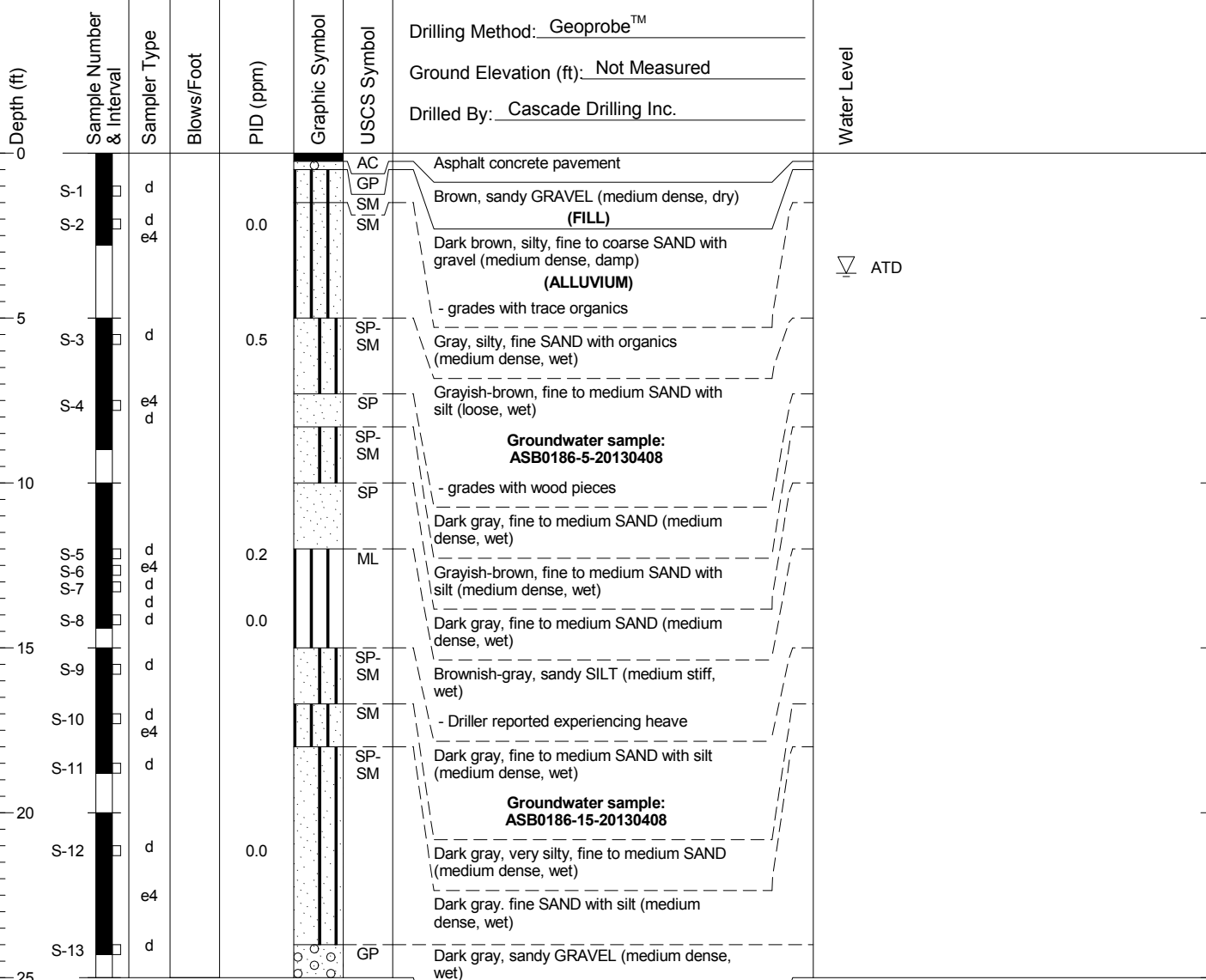
Figure
B-66

ASB0186

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/08/13
Total Depth of Boring = 25.0 ft.

Groundwater sample:
ASB0186-25-20130408

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-9.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0186

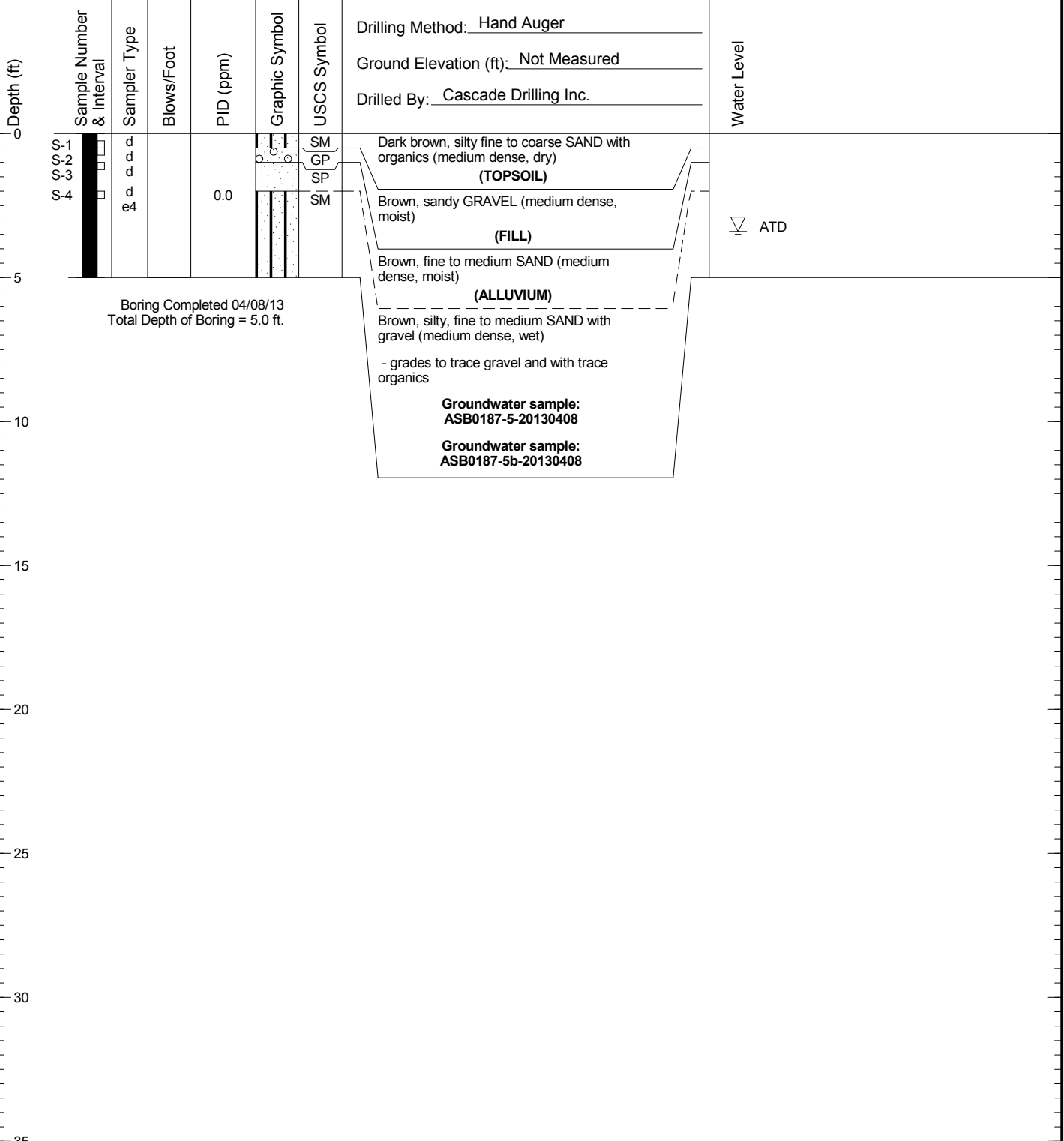
Figure
B-67

ASB0187

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-14.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
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Log of Boring ASB0187

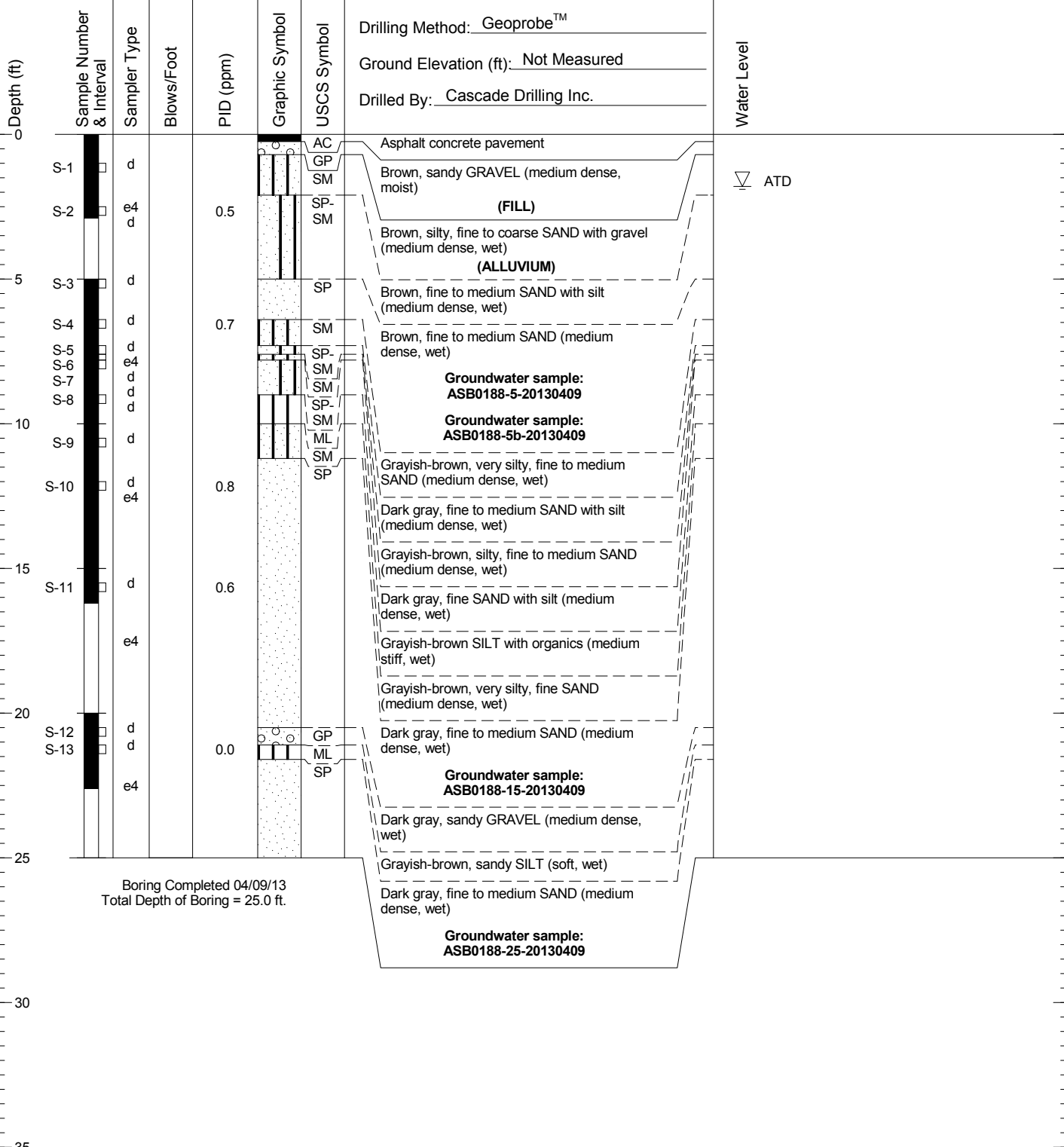
Figure
B-68

ASB0188

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/09/13
 Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-20.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPJ SOIL BORING LOG

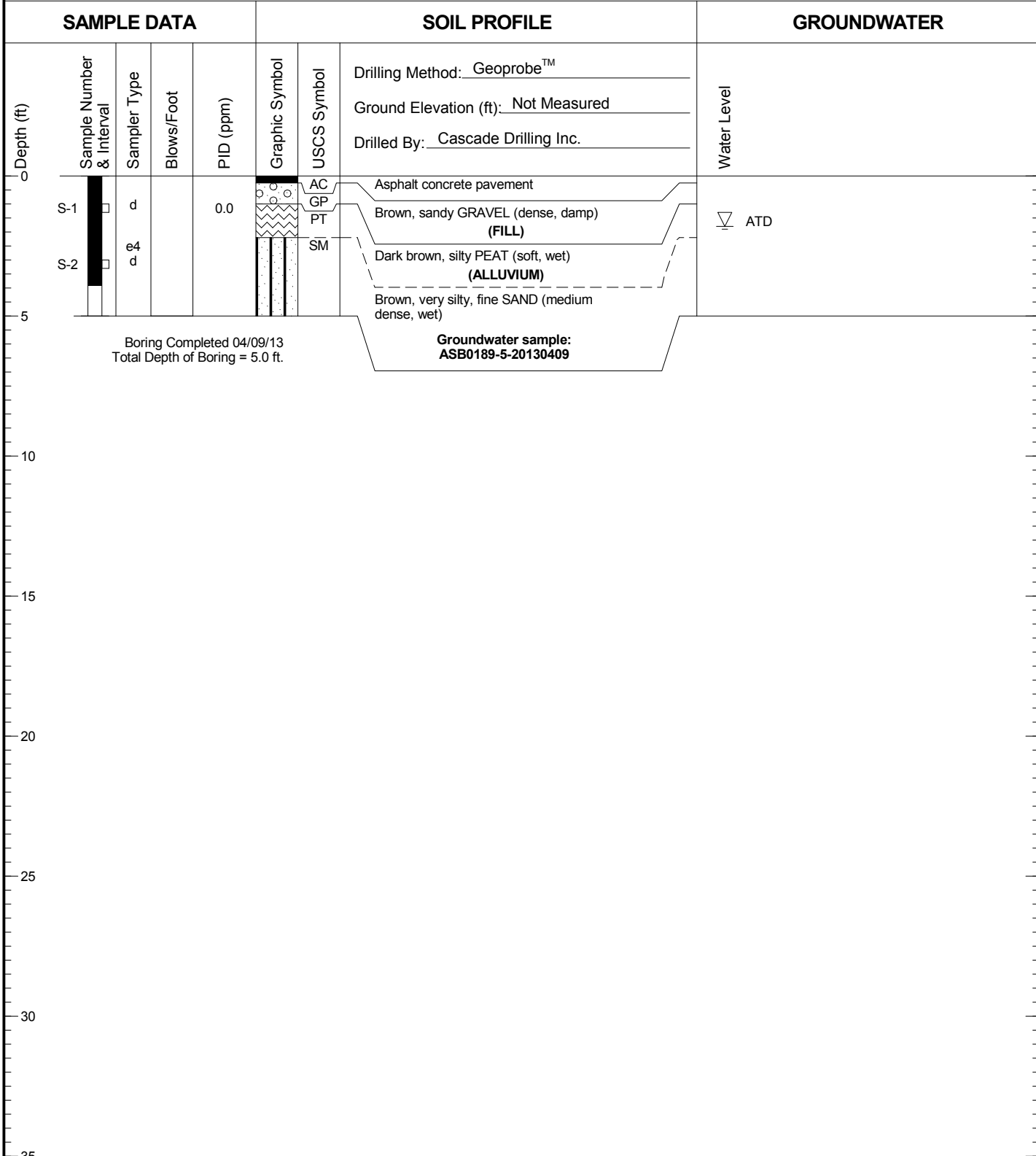


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 Auburn, Washington

Log of Boring ASB0188

Figure
B-69

ASB0189



025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-29.



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Log of Boring ASB0189

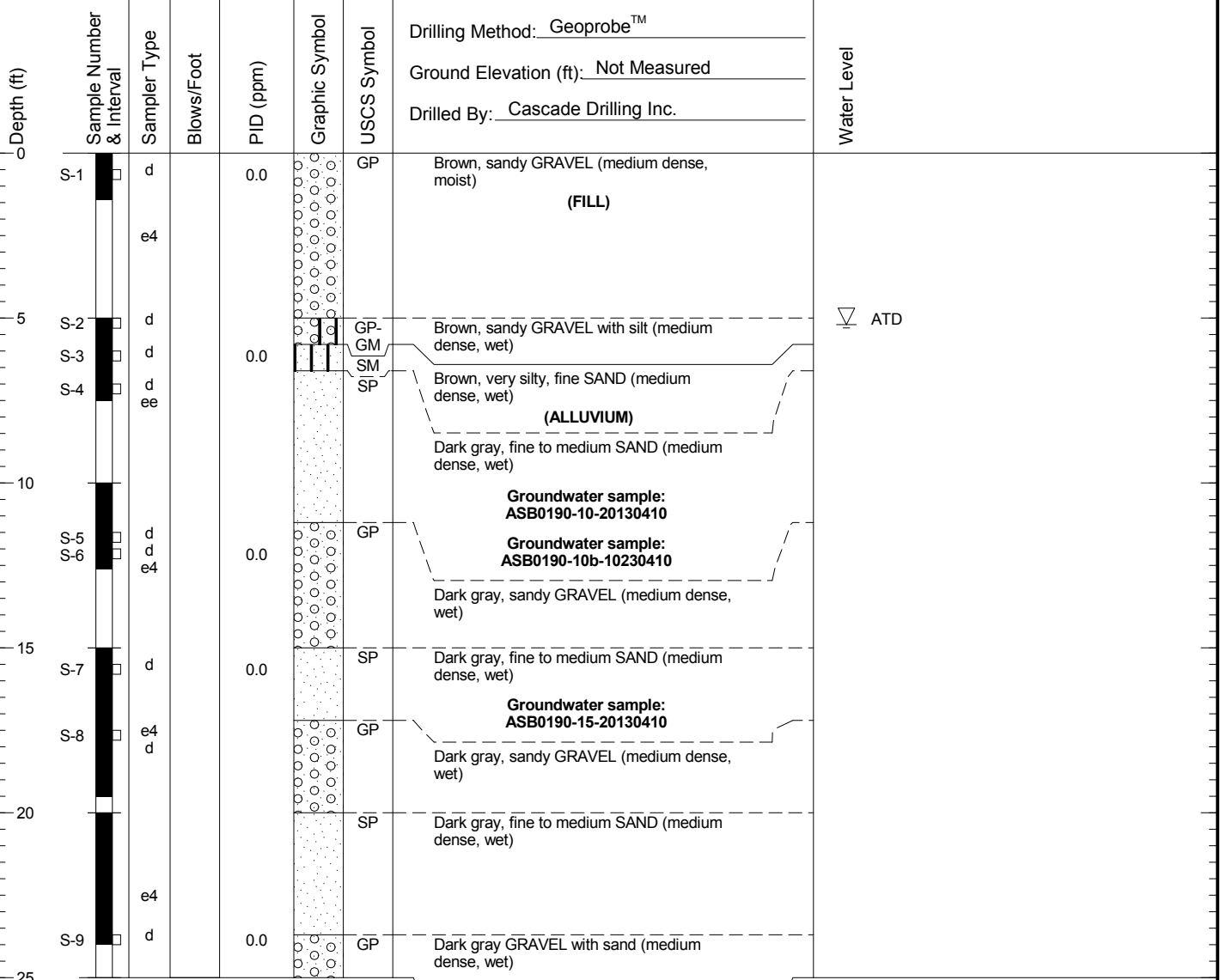
Figure
B-70

ASB0190

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/10/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-31.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0190

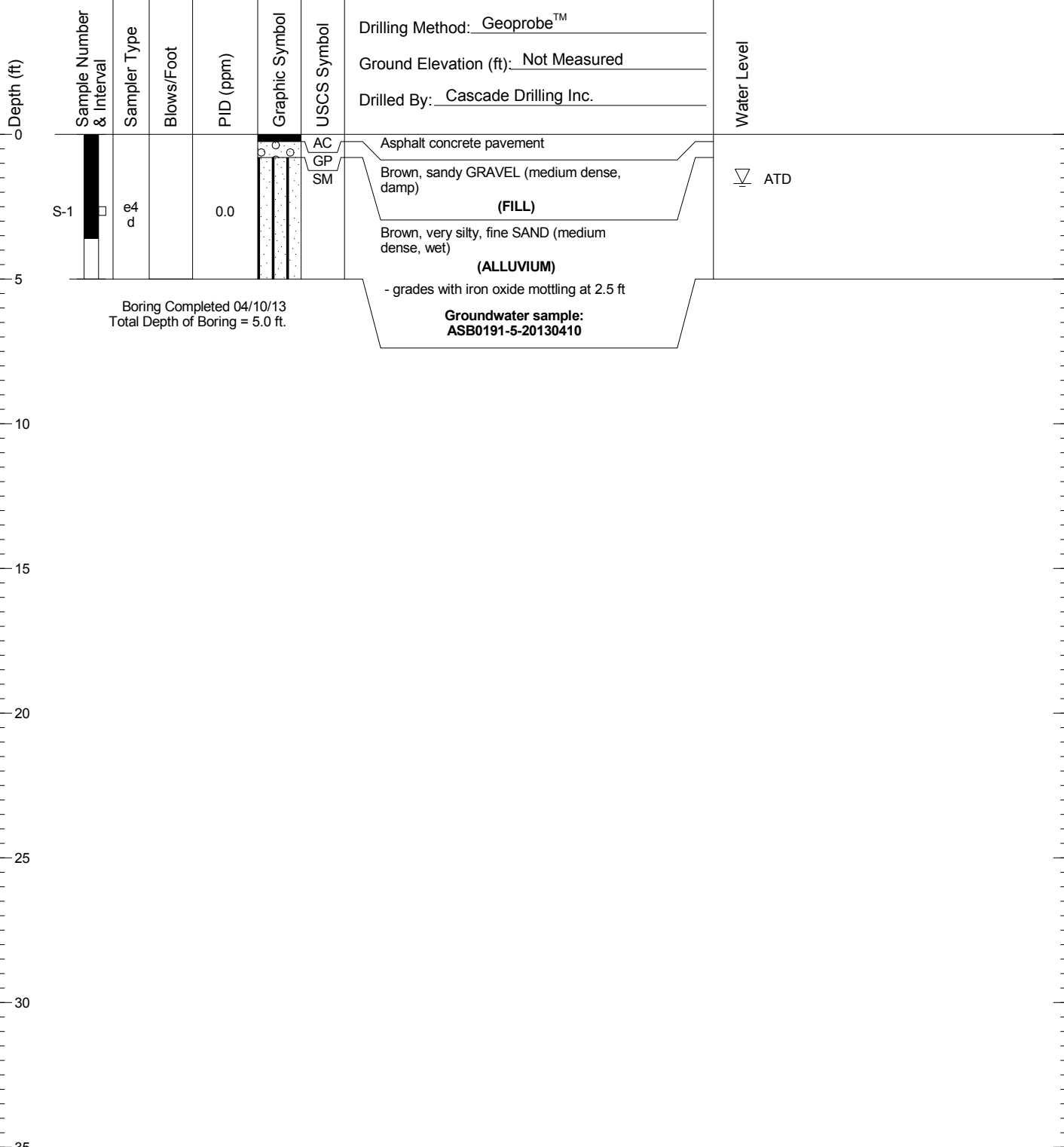
Figure
B-71

ASB0191

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-34.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0191

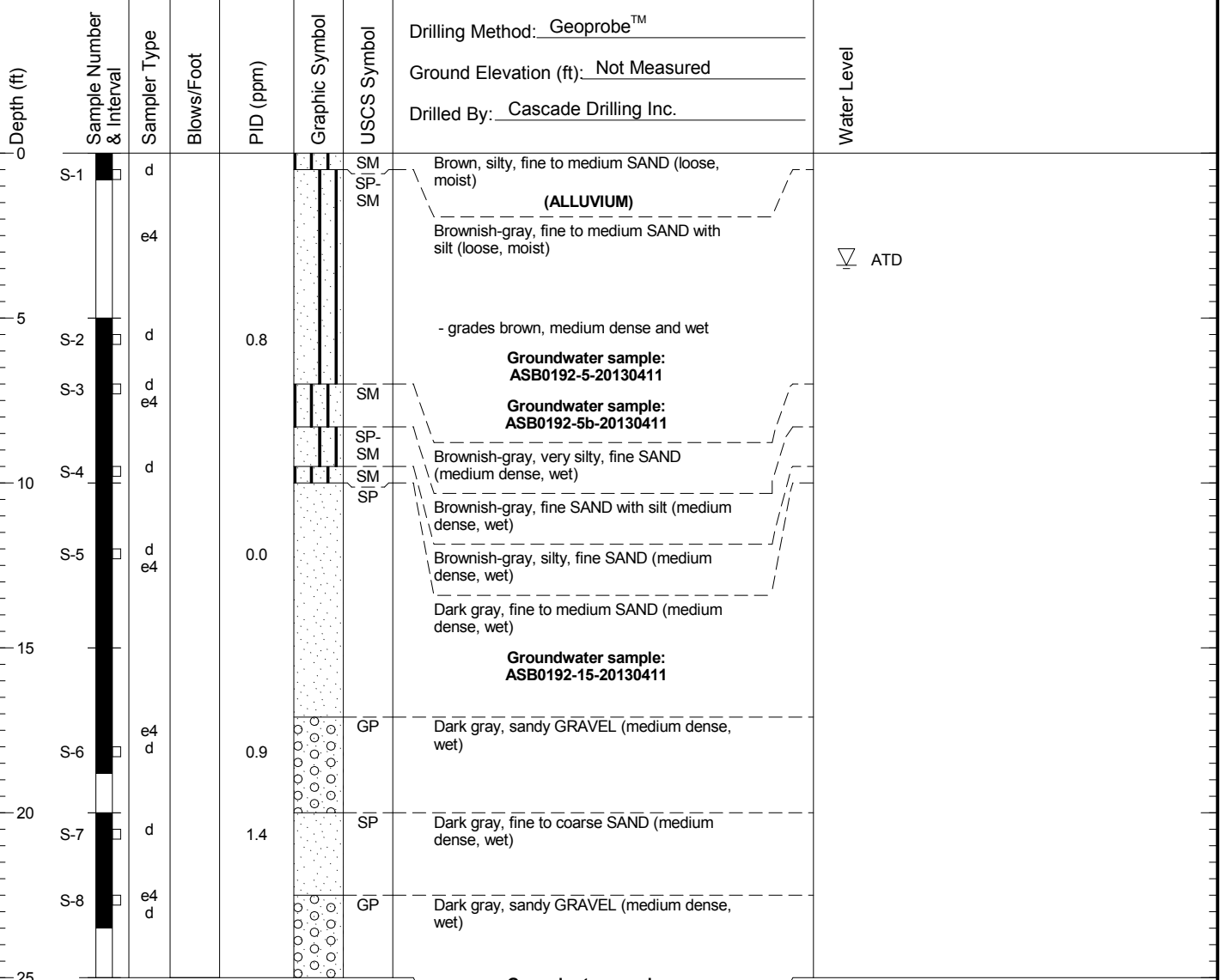
Figure
B-72

ASB0192

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/11/13
 Total Depth of Boring = 25.0 ft.

Groundwater sample: ASB0192-25-20130411

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-21.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0192

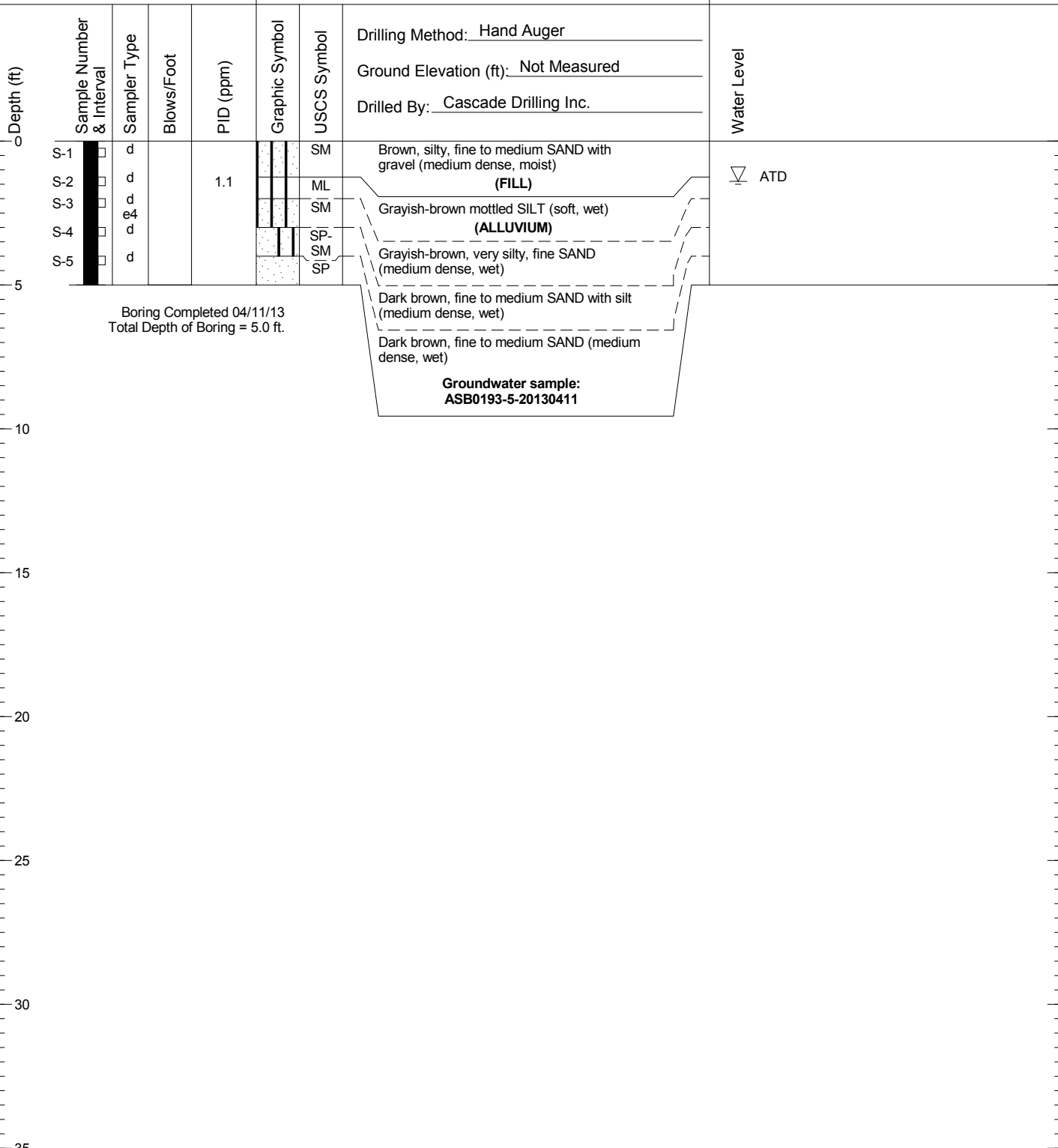
Figure
B-73

ASB0193

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-24.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

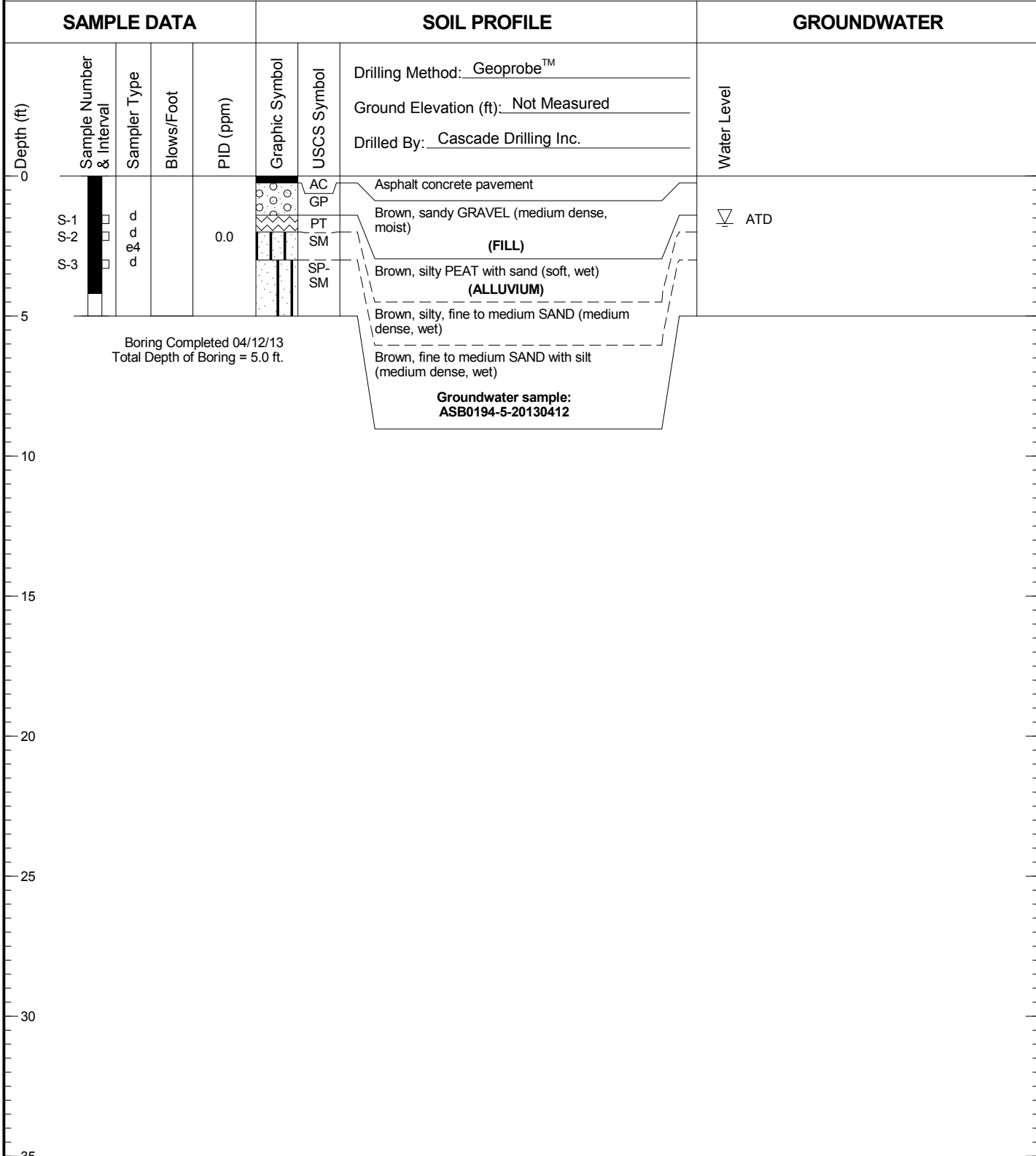


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Auburn, Washington

Log of Boring ASB0193

Figure
B-74

ASB0194



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-38.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0194

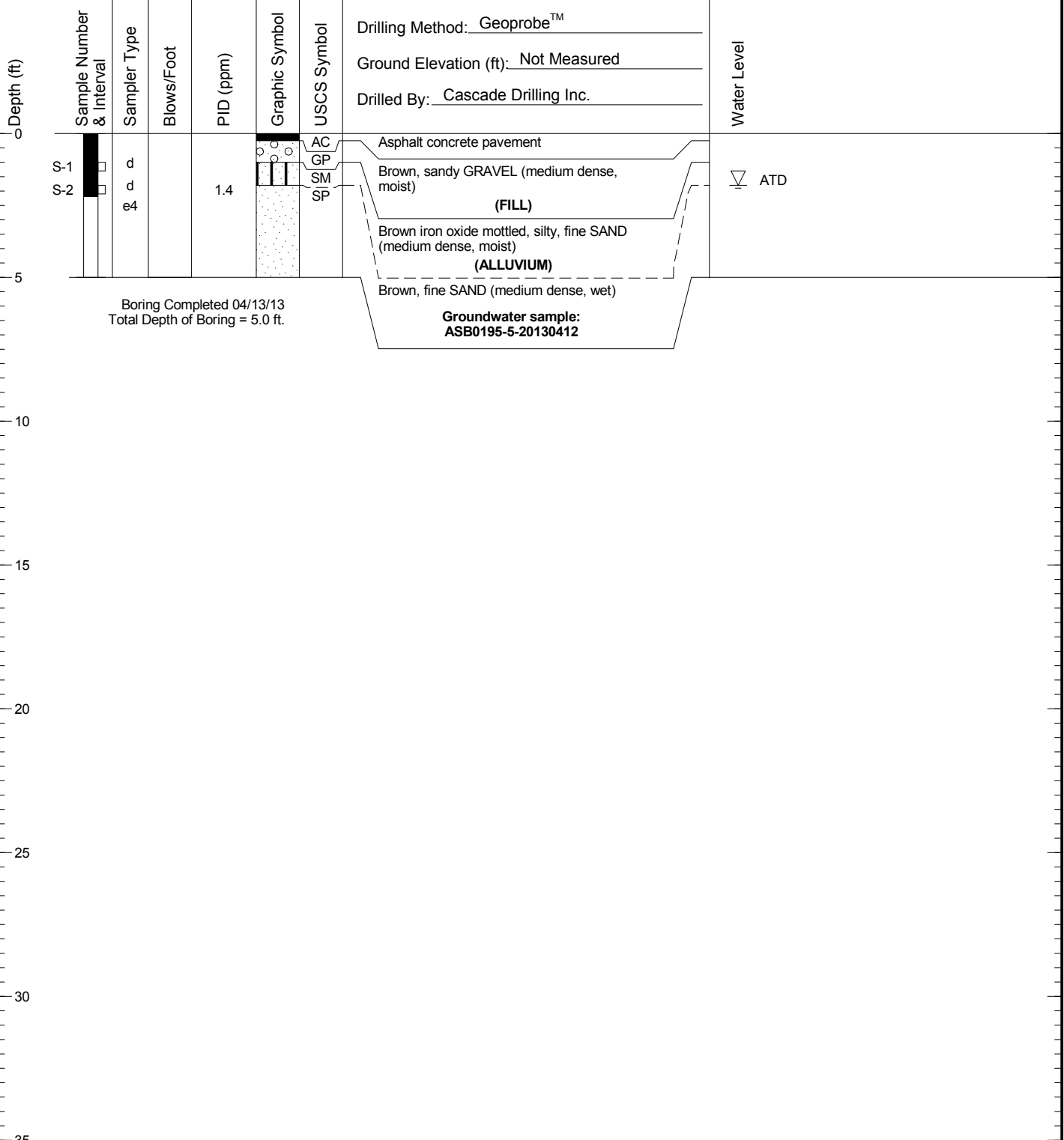
Figure
B-75

ASB0195

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-39.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0195

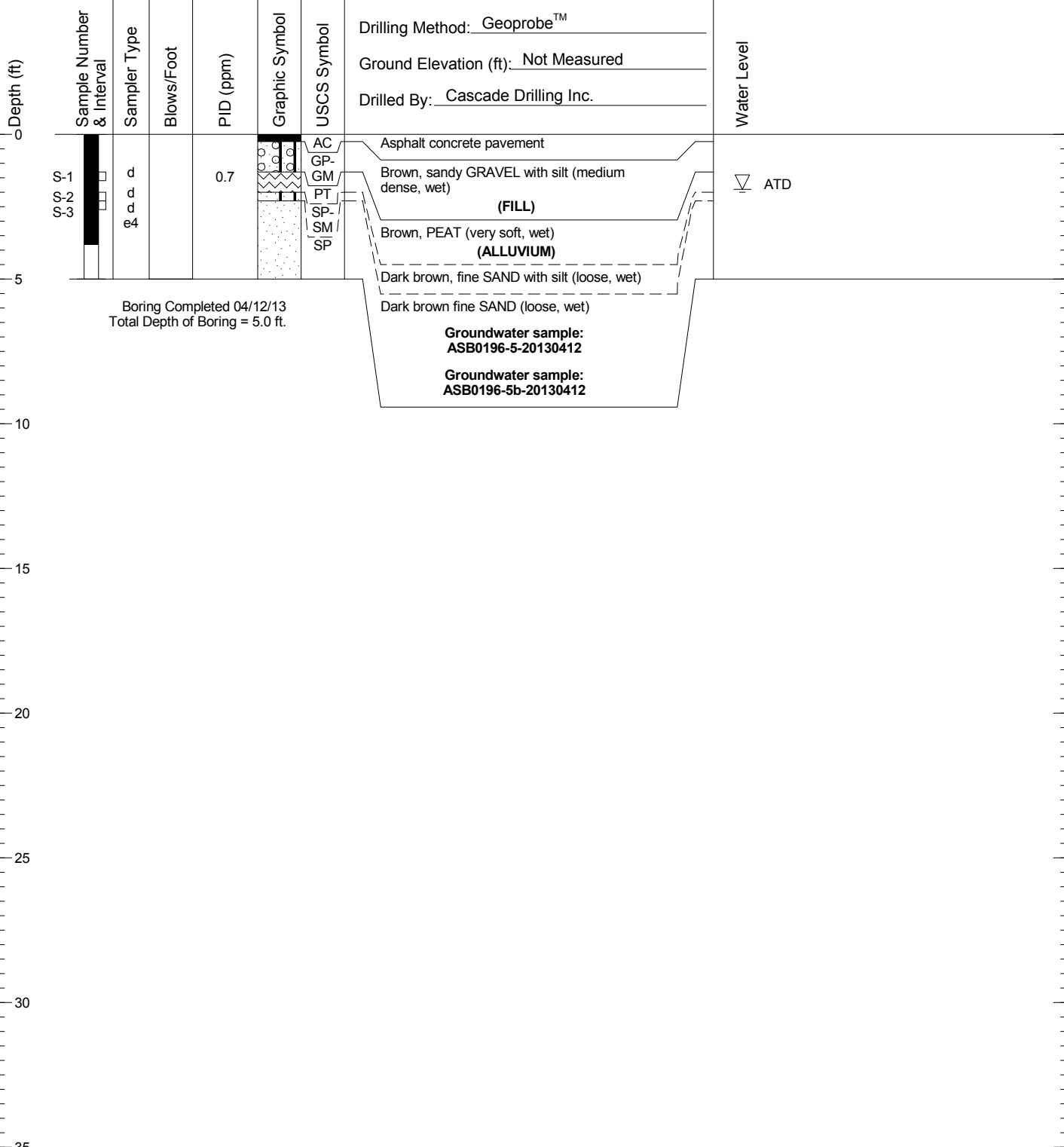
Figure
B-76

ASB0196

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/12/13
Total Depth of Boring = 5.0 ft.

Groundwater sample:
ASB0196-5-20130412

Groundwater sample:
ASB0196-5b-20130412

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-40.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0196

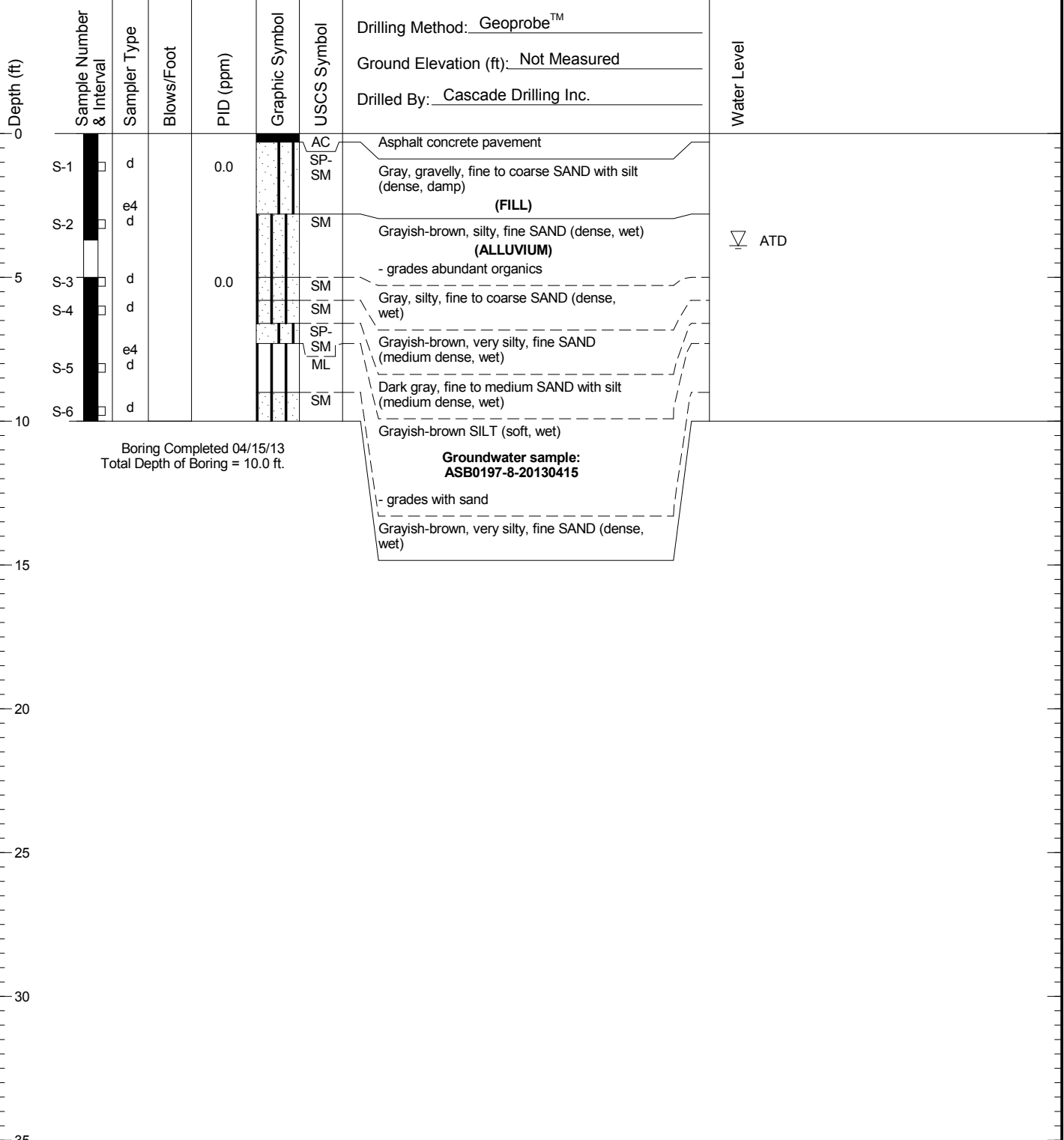
Figure
B-77

ASB0197

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/15/13
Total Depth of Boring = 10.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-28.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0197

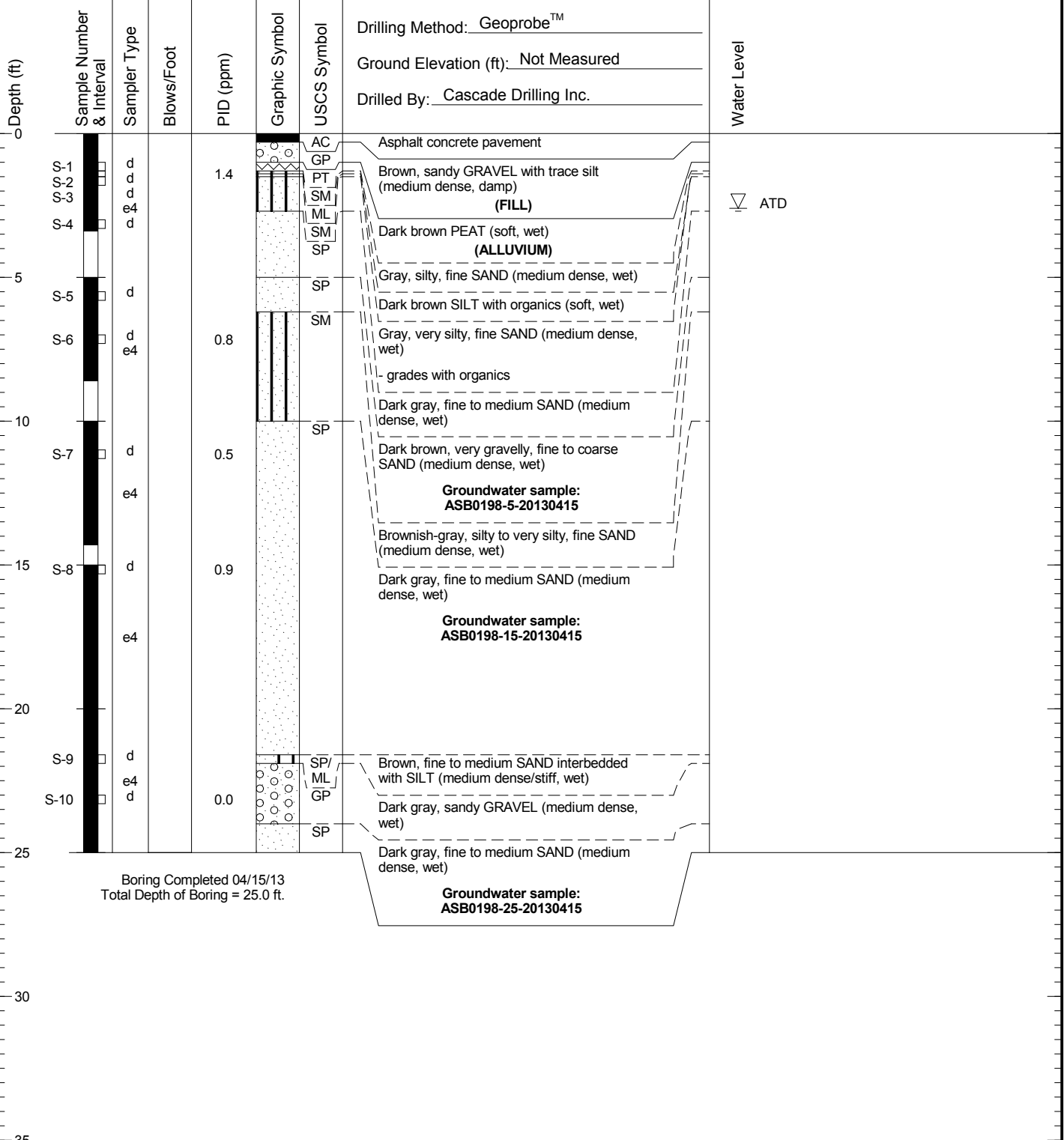
Figure
B-78

ASB0198

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/15/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-30.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0198

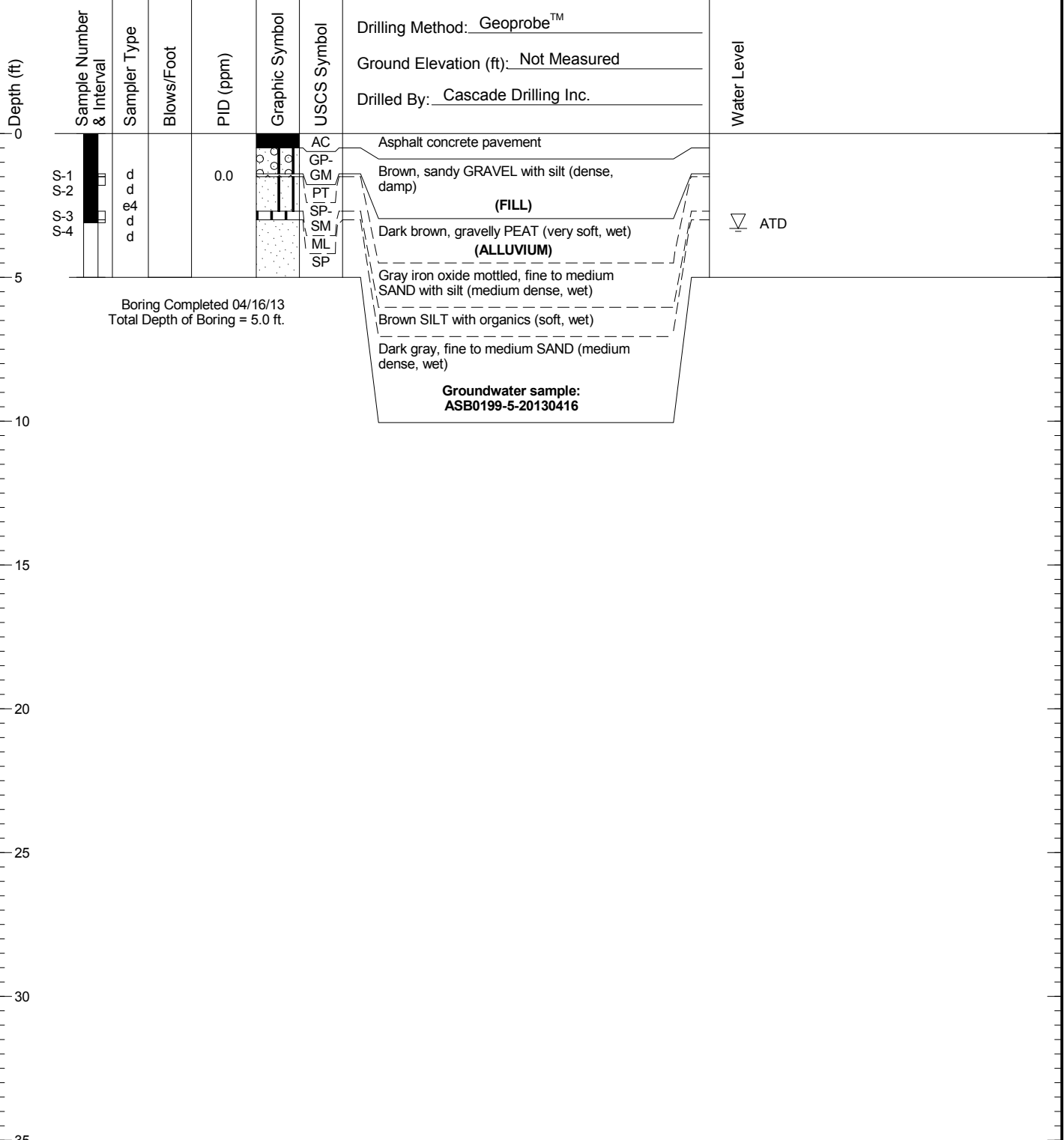
Figure
B-79

ASB0199

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-17.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0199

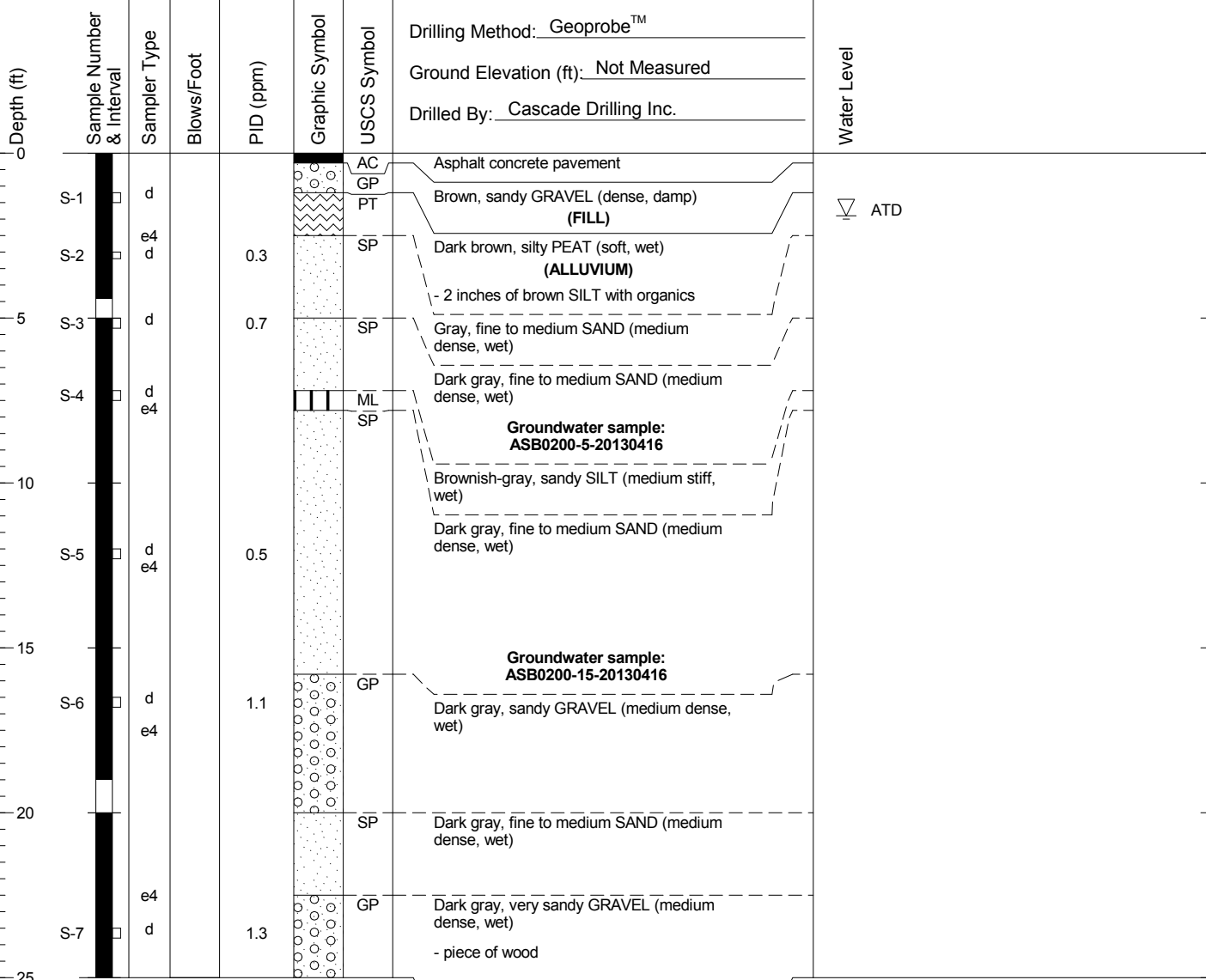
Figure
B-80

ASB0200

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/16/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-18.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0200

Figure
B-81

ASB0201

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
	S-1	d		0.2	AC GP- GM	AC	Asphalt concrete pavement
		e4			ML	ML	Brown, sandy GRAVEL with silt (dense, damp) (FILL) Dark brown SILT with abundant organics (very soft, wet) (ALLUVIUM)
5	S-2	d		0.2			▽ ATD
		e4					
10							

Boring Completed 04/17/13
Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-6.



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Log of Boring ASB0201

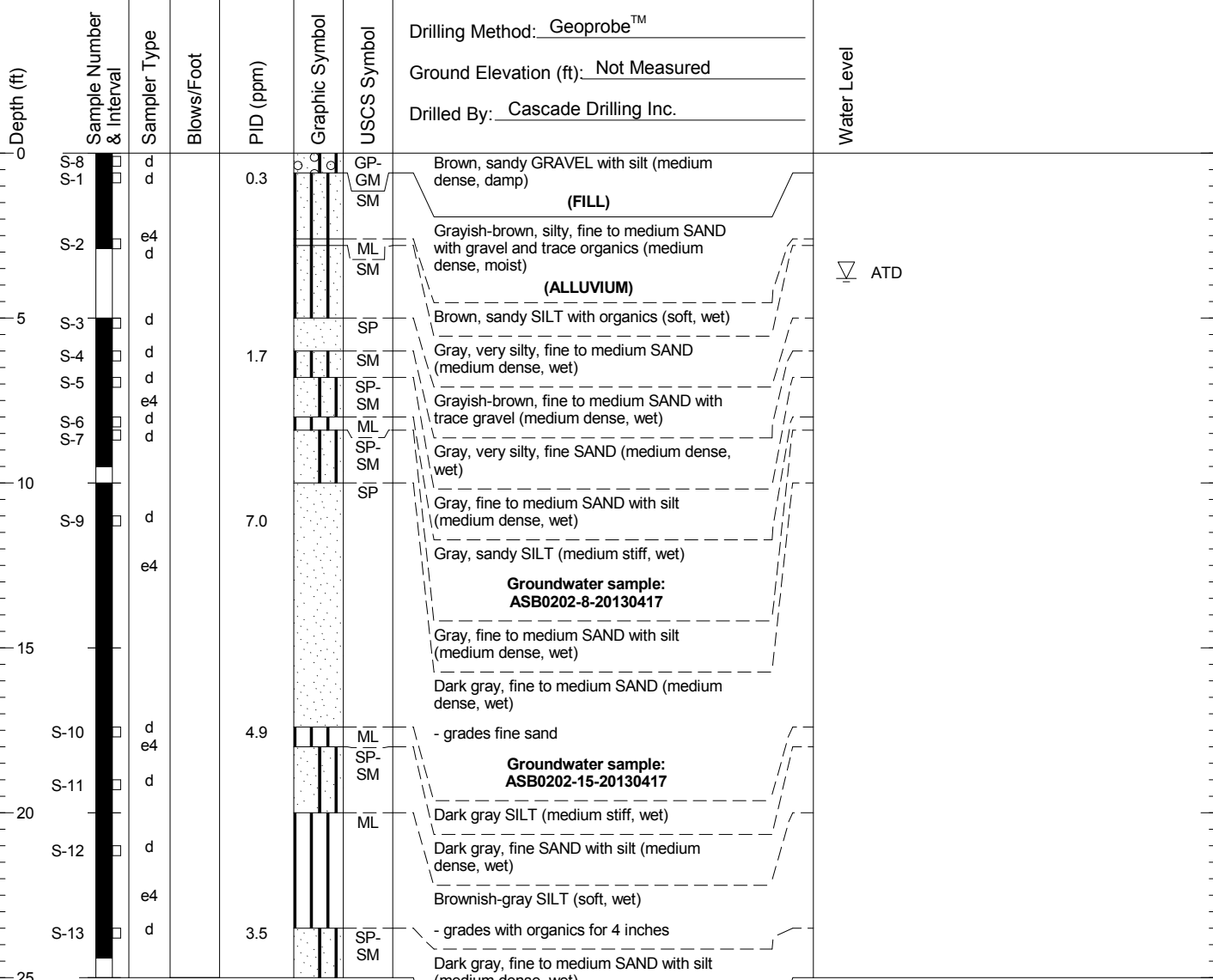
Figure
B-82

ASB0202

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/17/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-7.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0202

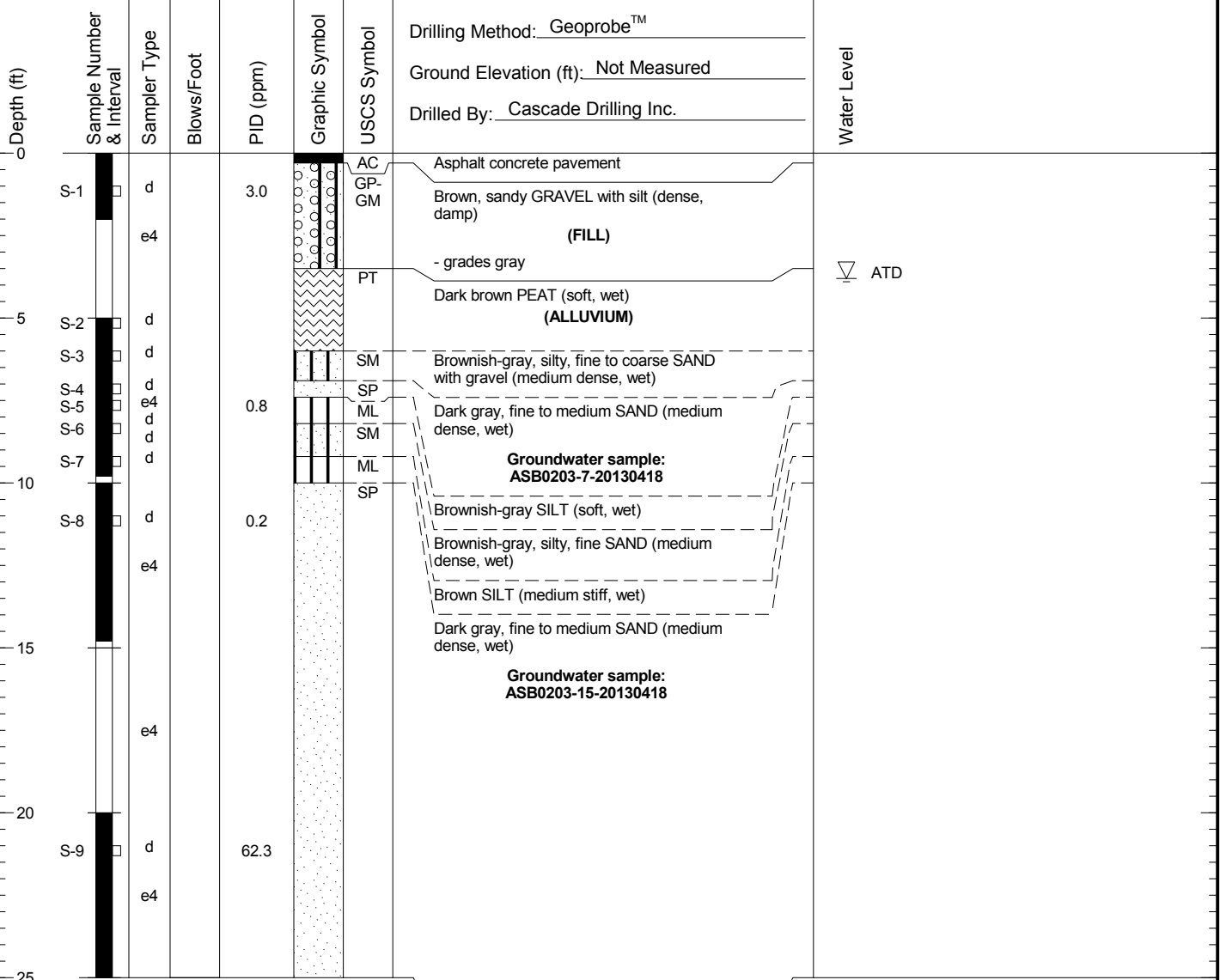
Figure
B-83

ASB0203

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/18/13
Total Depth of Boring = 25.0 ft.

Groundwater sample:
ASB0203-25-20130418

Groundwater sample:
ASB0203-7-20130418

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-1.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

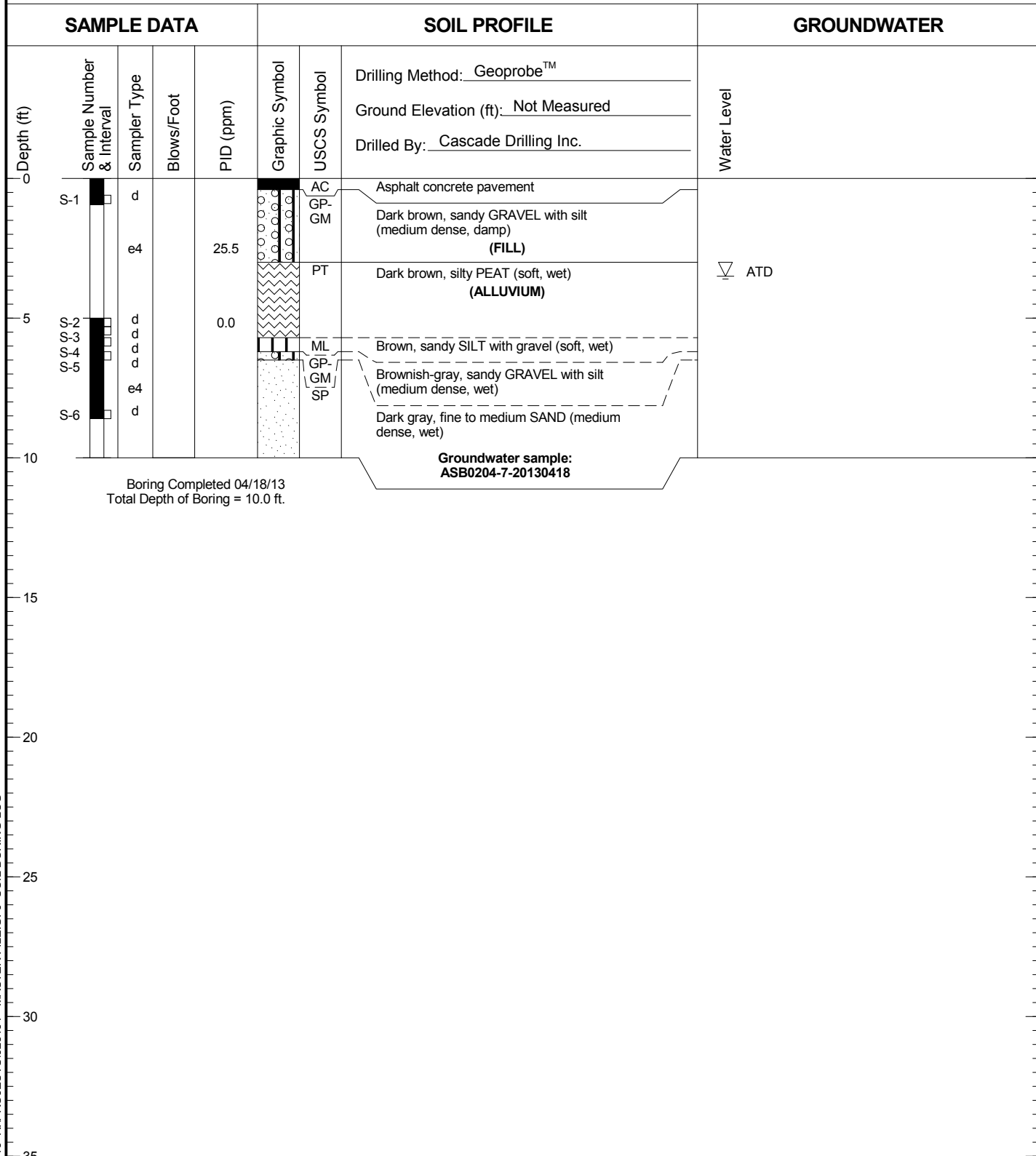


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Investigation
Auburn, Washington

Log of Boring ASB0203

Figure
B-84

ASB0204



Boring Completed 04/18/13
Total Depth of Boring = 10.0 ft.

**Groundwater sample:
ASB0204-7-20130418**

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-5.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0204

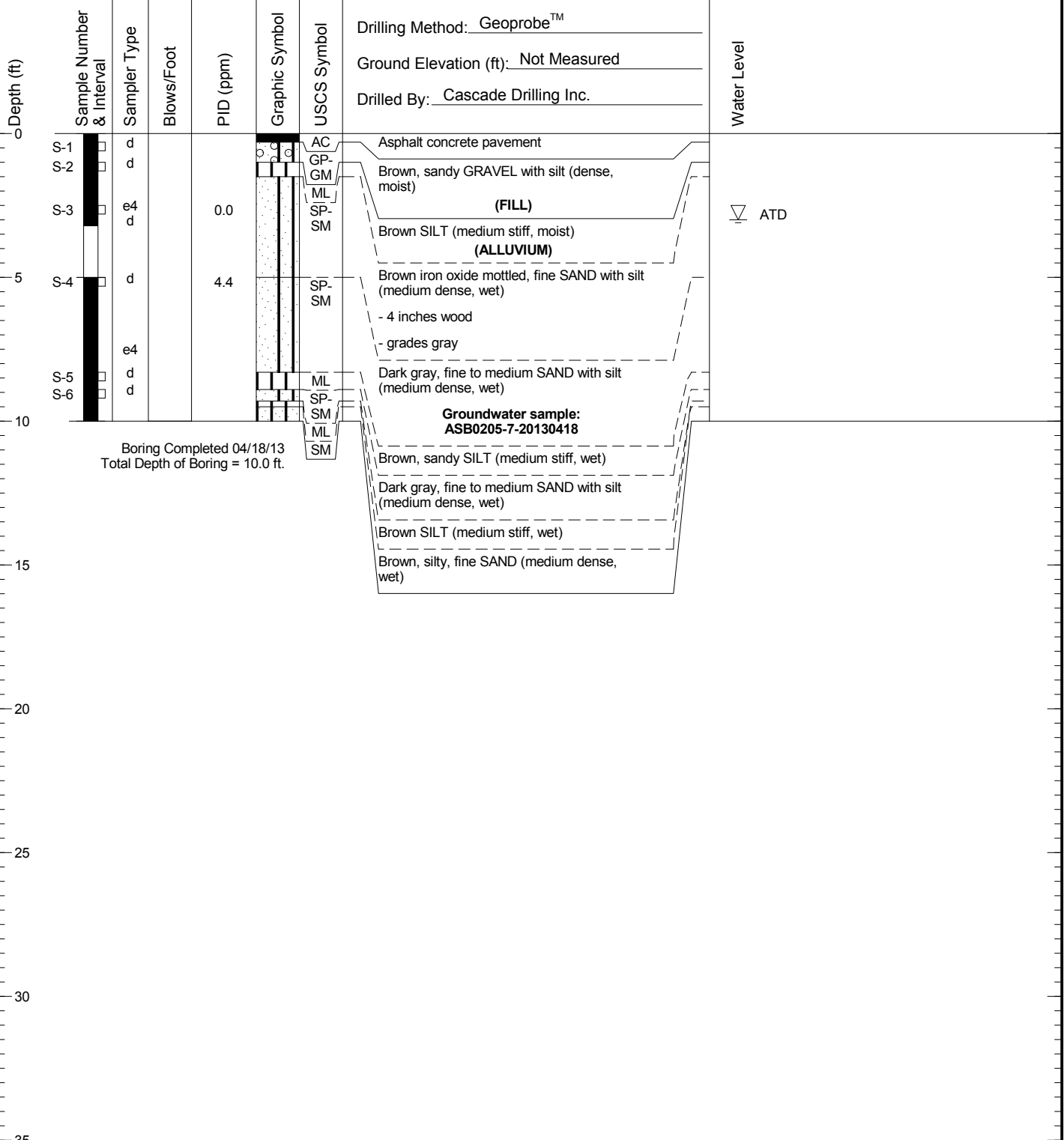
Figure
B-85

ASB0205

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-45.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0205

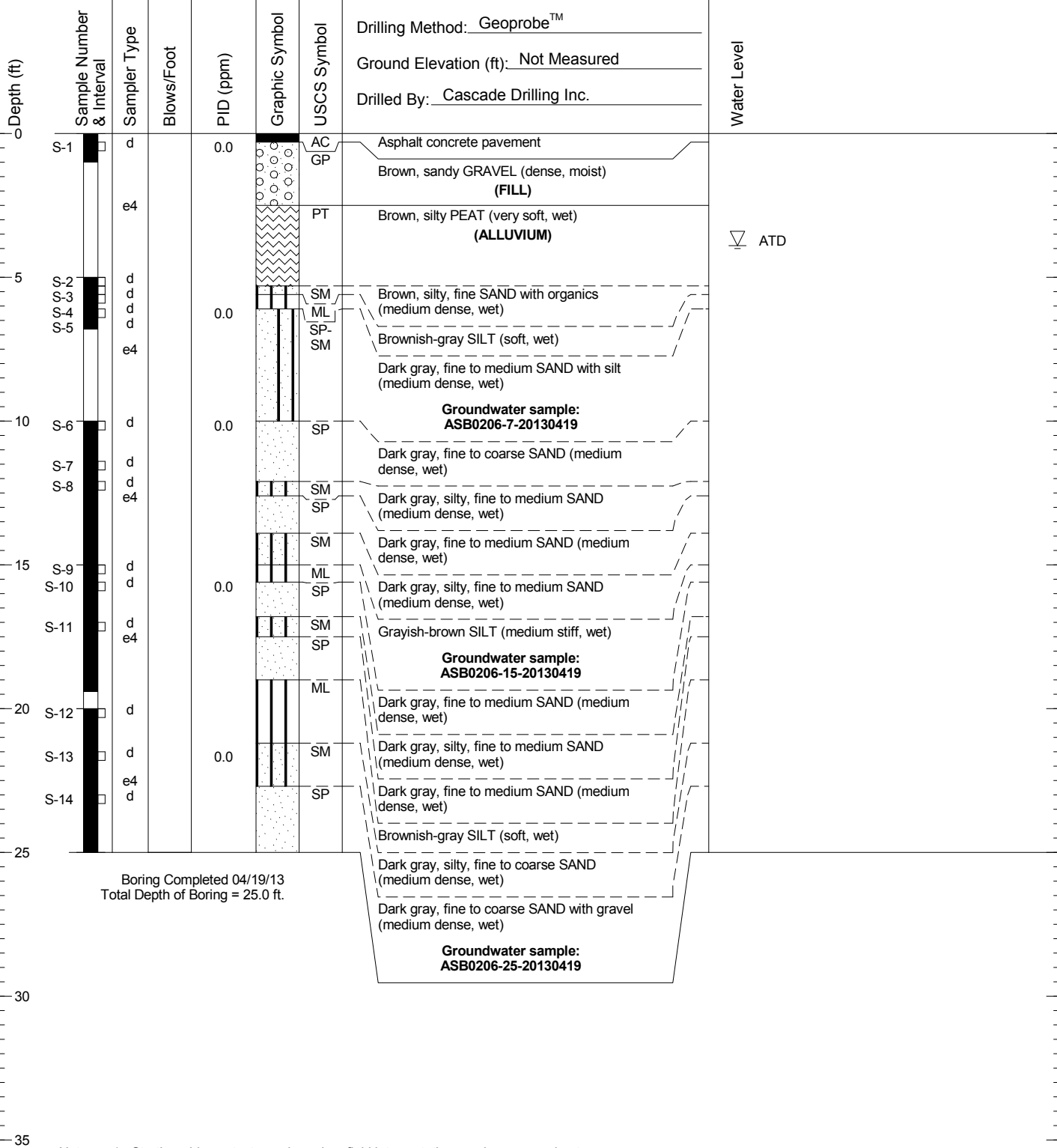
Figure
B-86

ASB0206

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-16.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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 Investigation
 Auburn, Washington

Log of Boring ASB0206

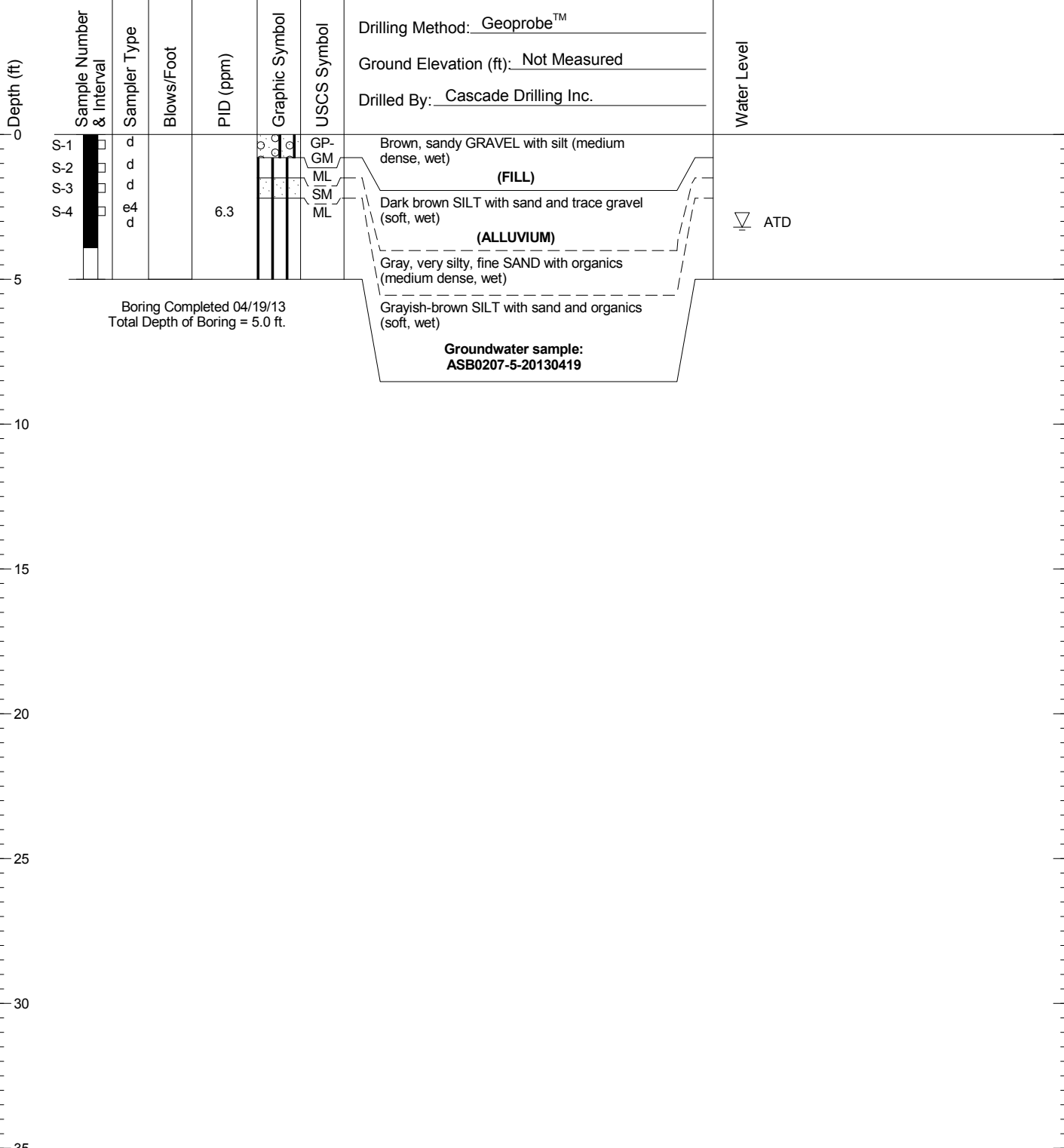
Figure
B-87

ASB0207

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-26.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

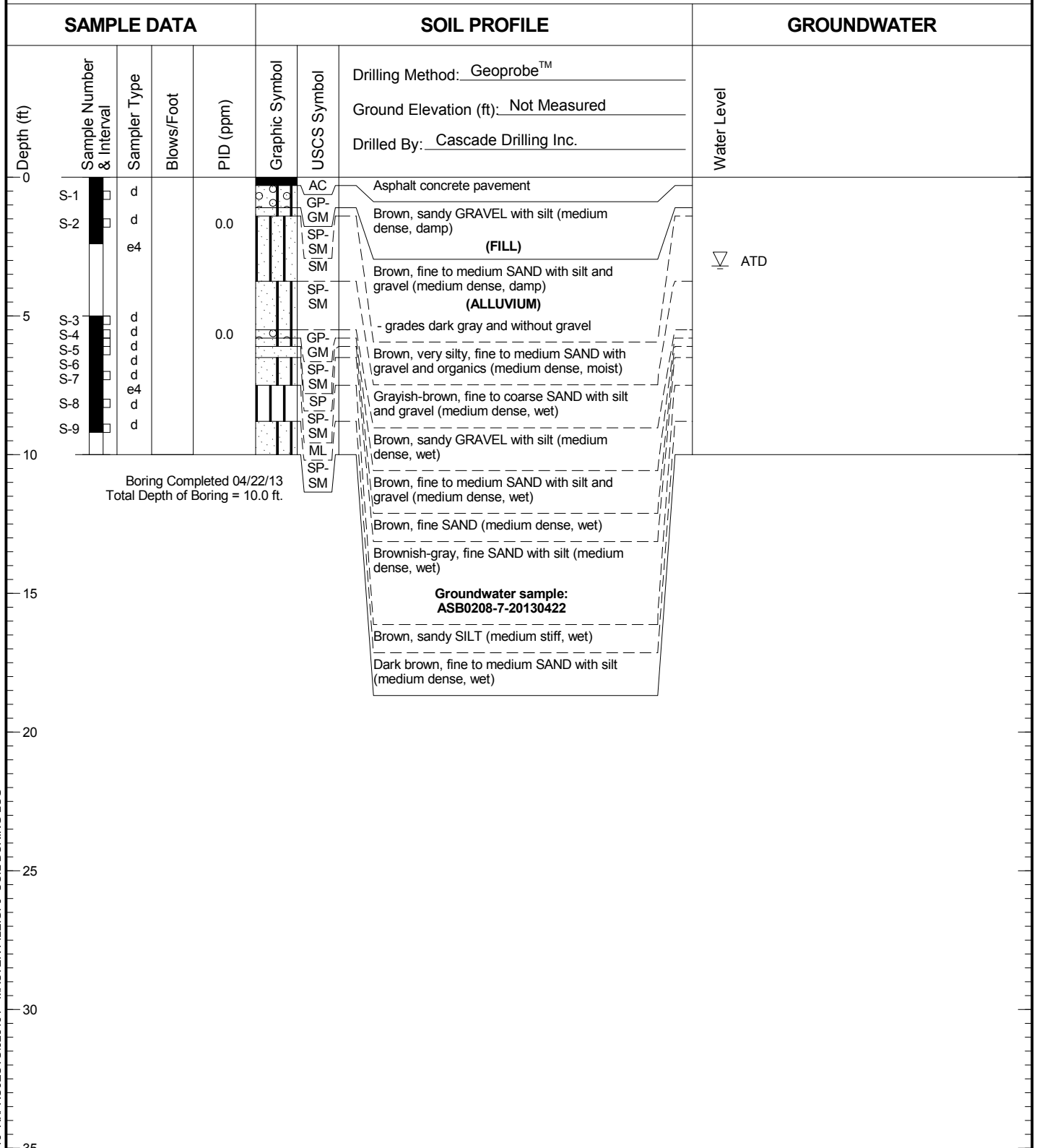


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Investigation
Auburn, Washington

Log of Boring ASB0207

Figure
B-88

ASB0208



025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-27.



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Log of Boring ASB0208

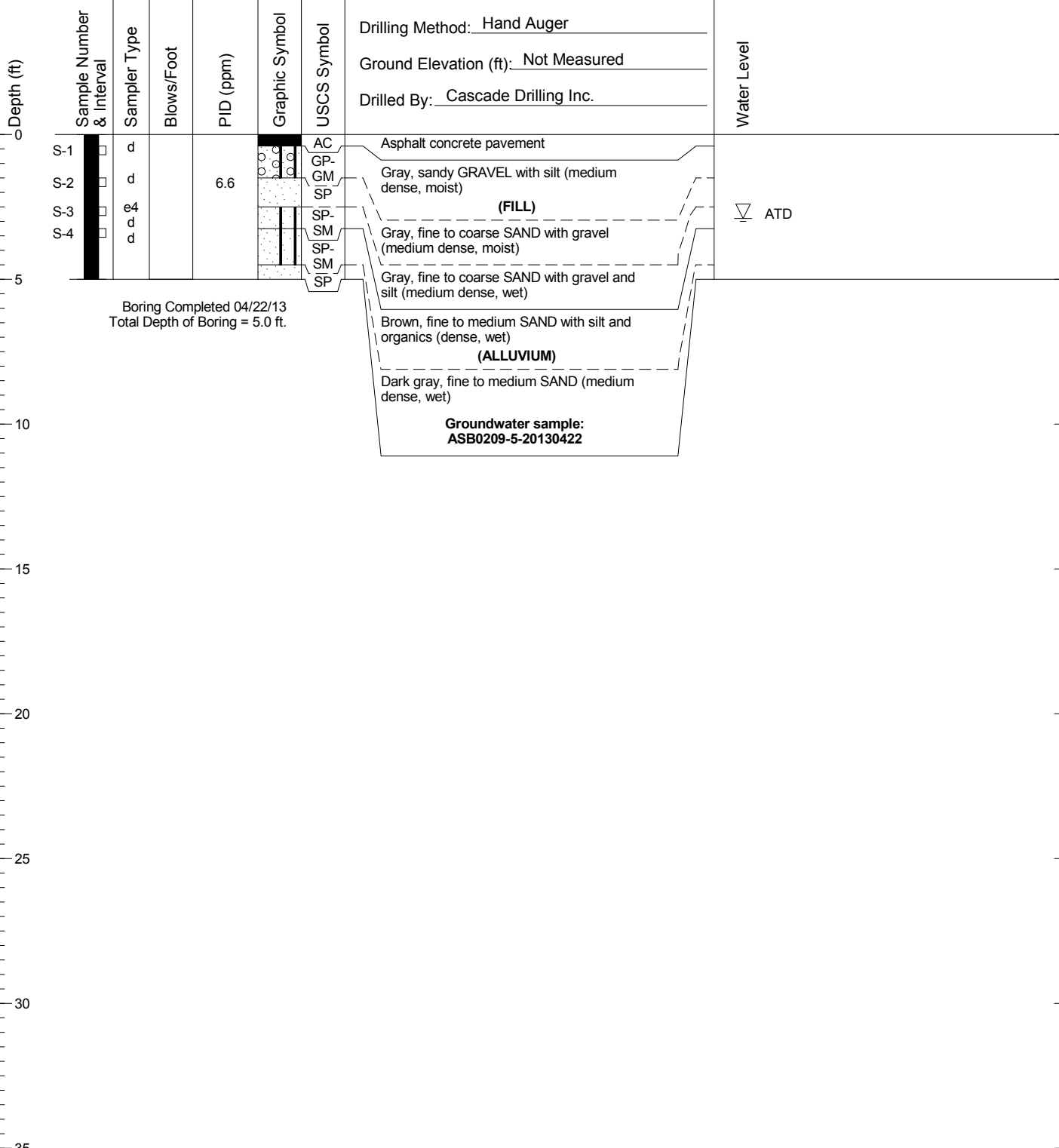
Figure
B-89

ASB0209

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/22/13
Total Depth of Boring = 5.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-47.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0209

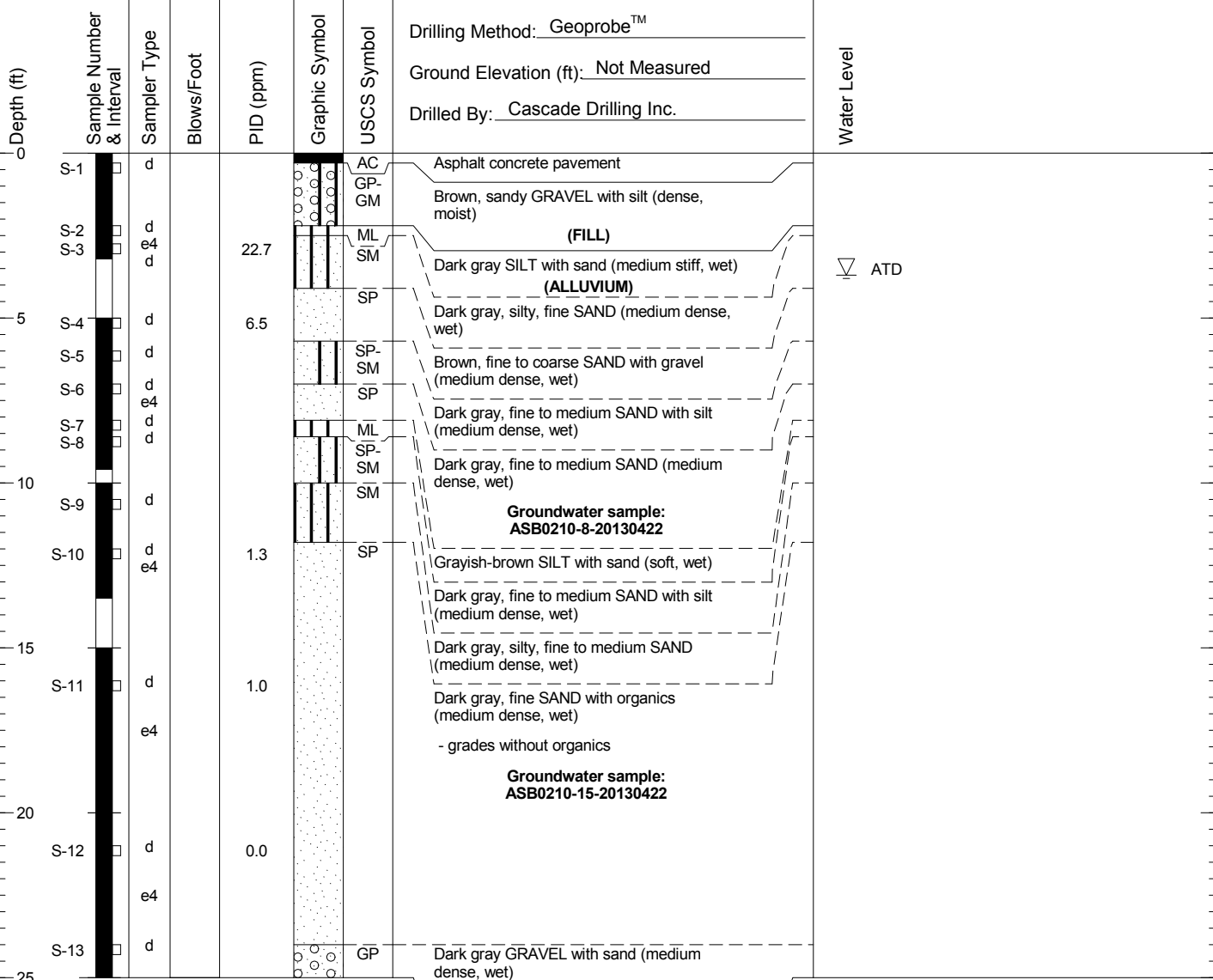
Figure
B-90

ASB0210

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/22/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-41.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0210

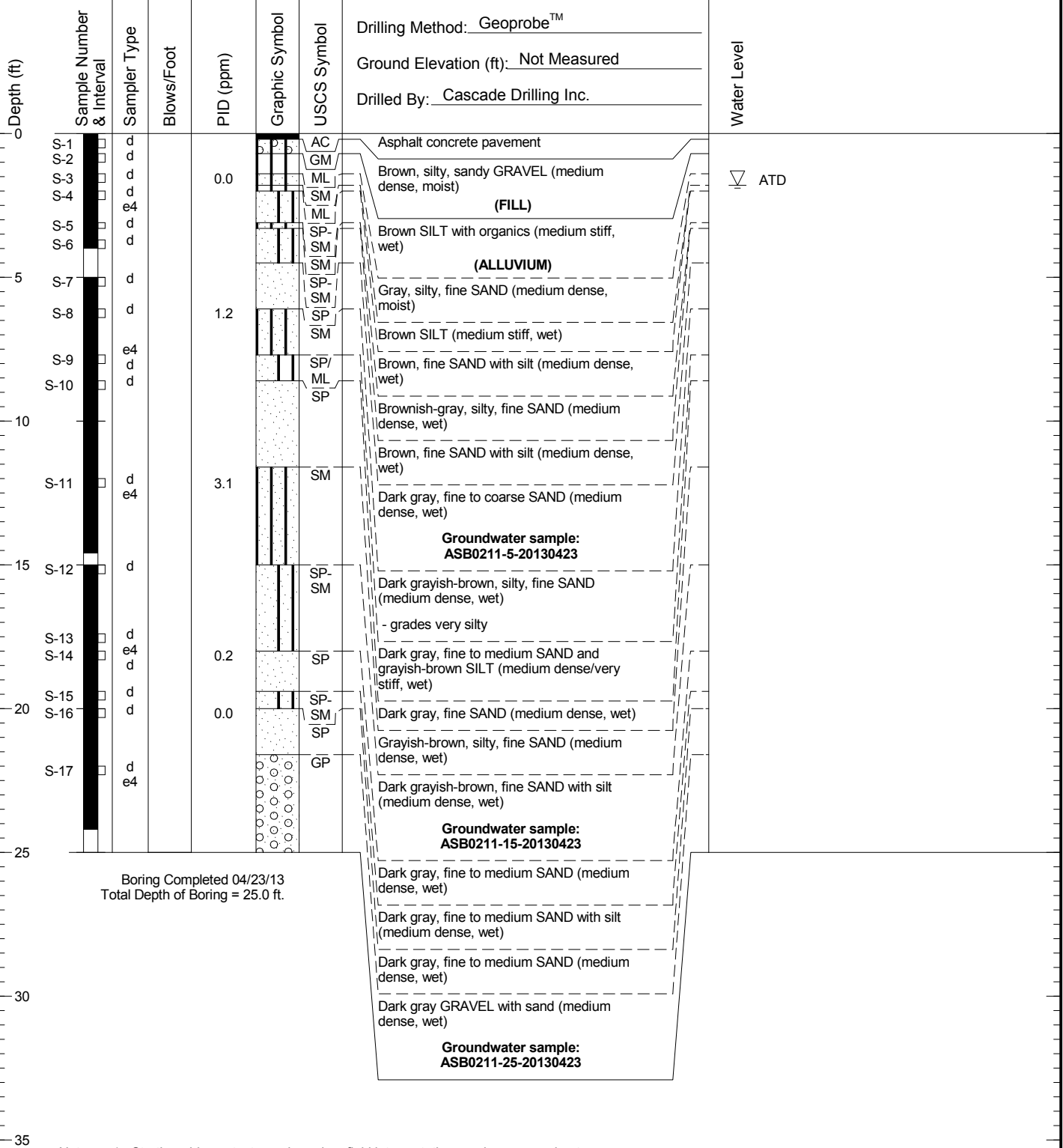
Figure
B-91

ASB0211

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/23/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-42.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0211

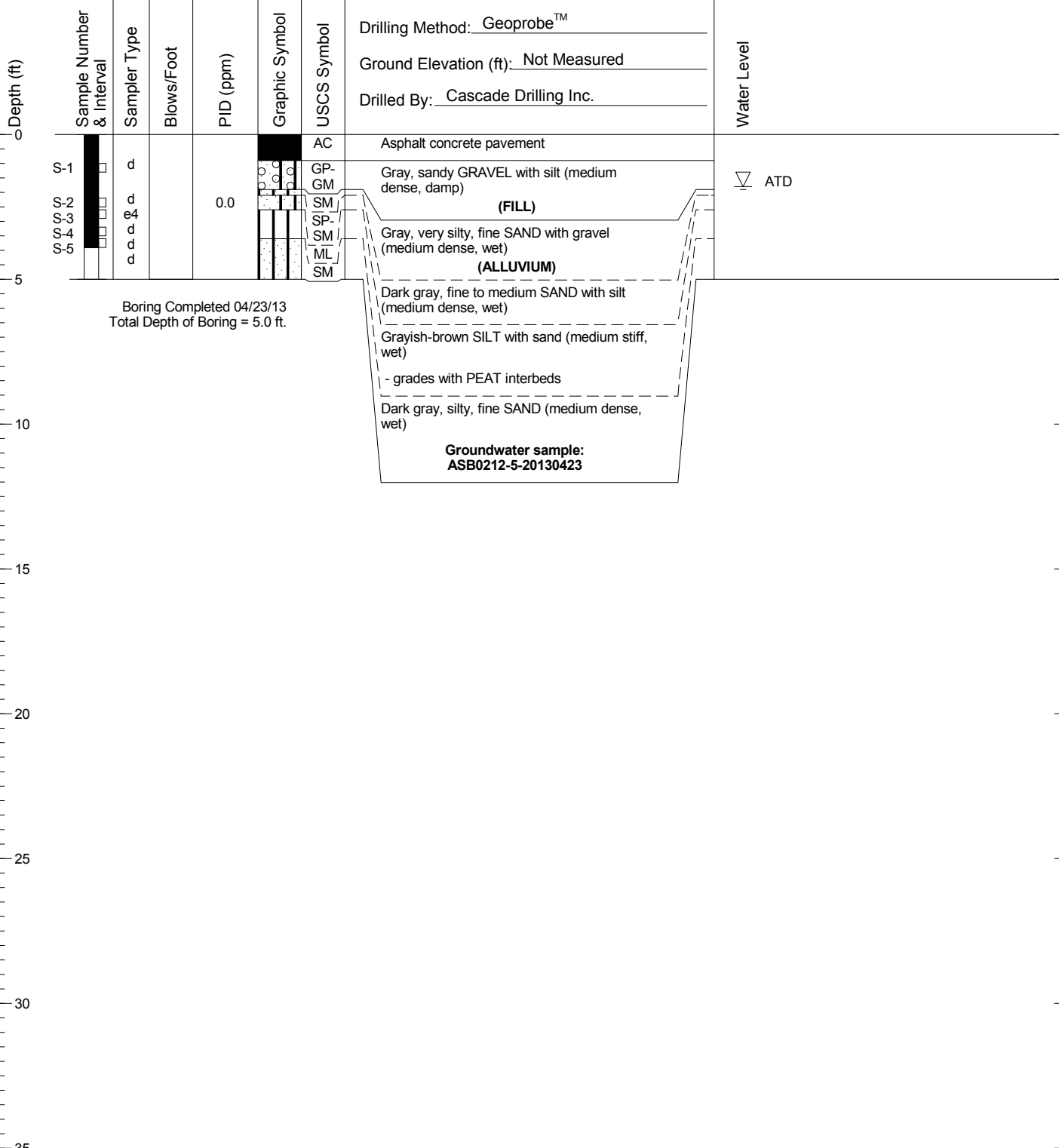
Figure
B-92

ASB0212

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-43.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

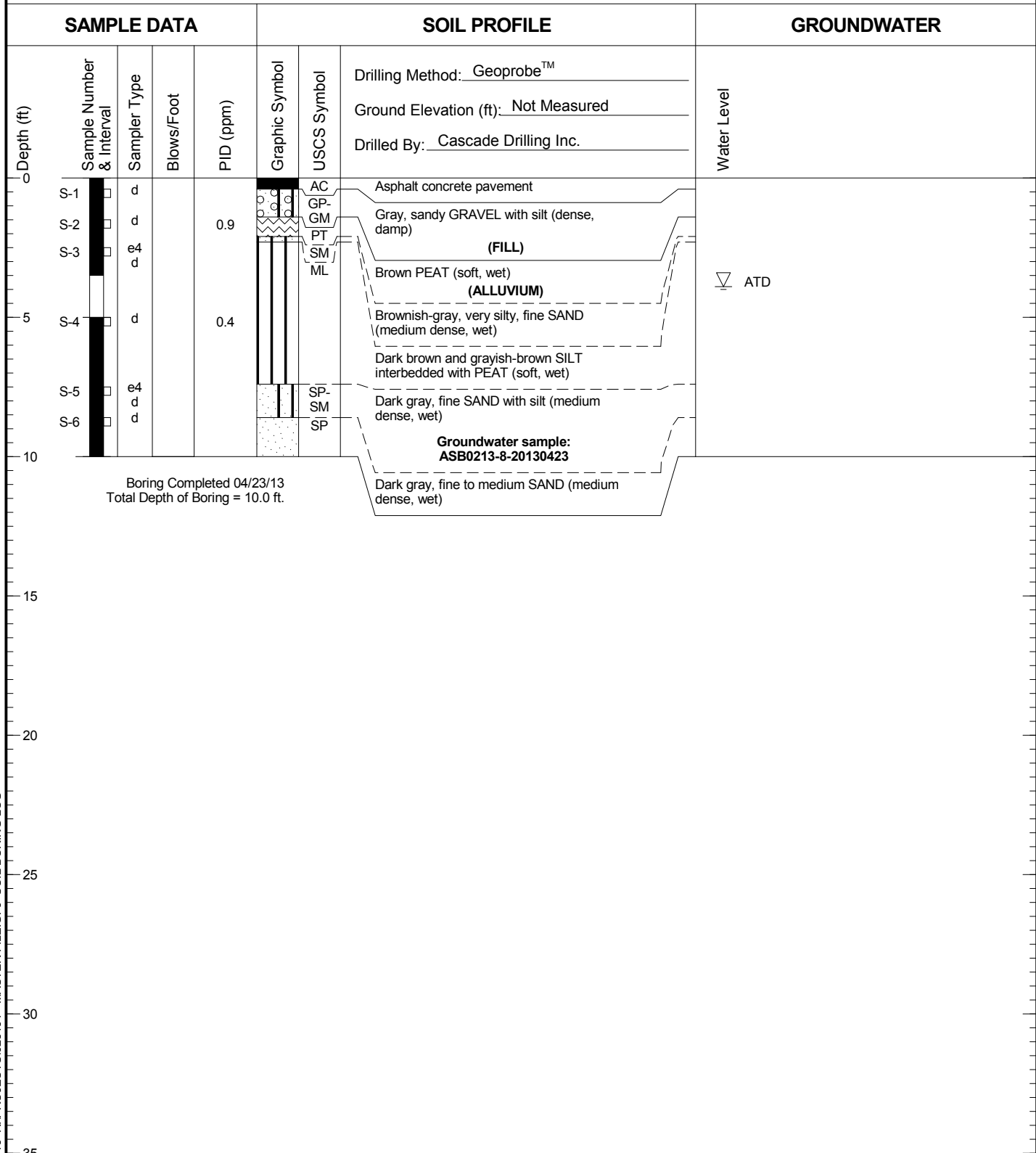


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Investigation
Auburn, Washington

Log of Boring ASB0212

Figure
B-93

ASB0213



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-48.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0213

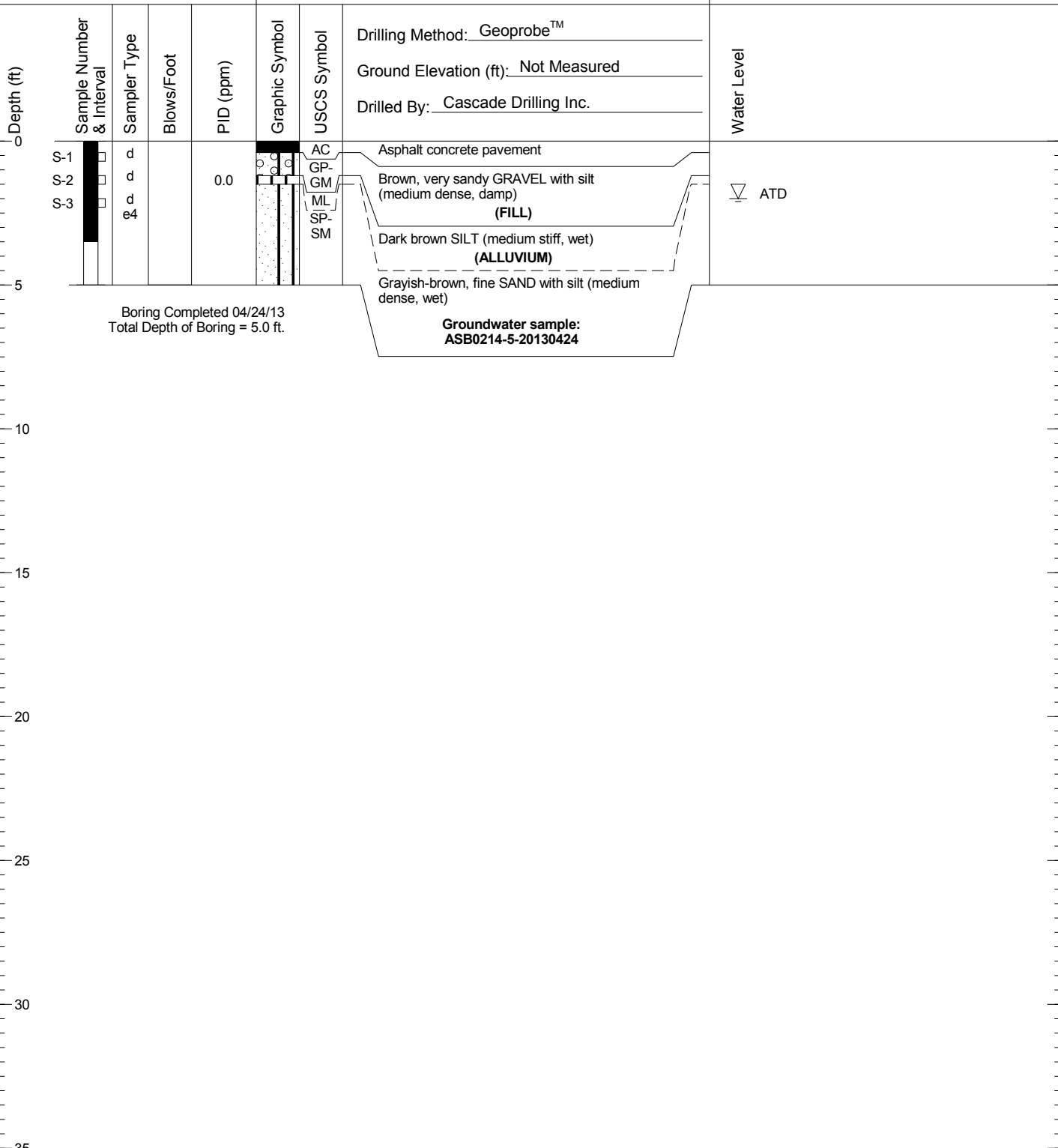
Figure
B-94

ASB0214

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-37.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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 Auburn, Washington

Log of Boring ASB0214

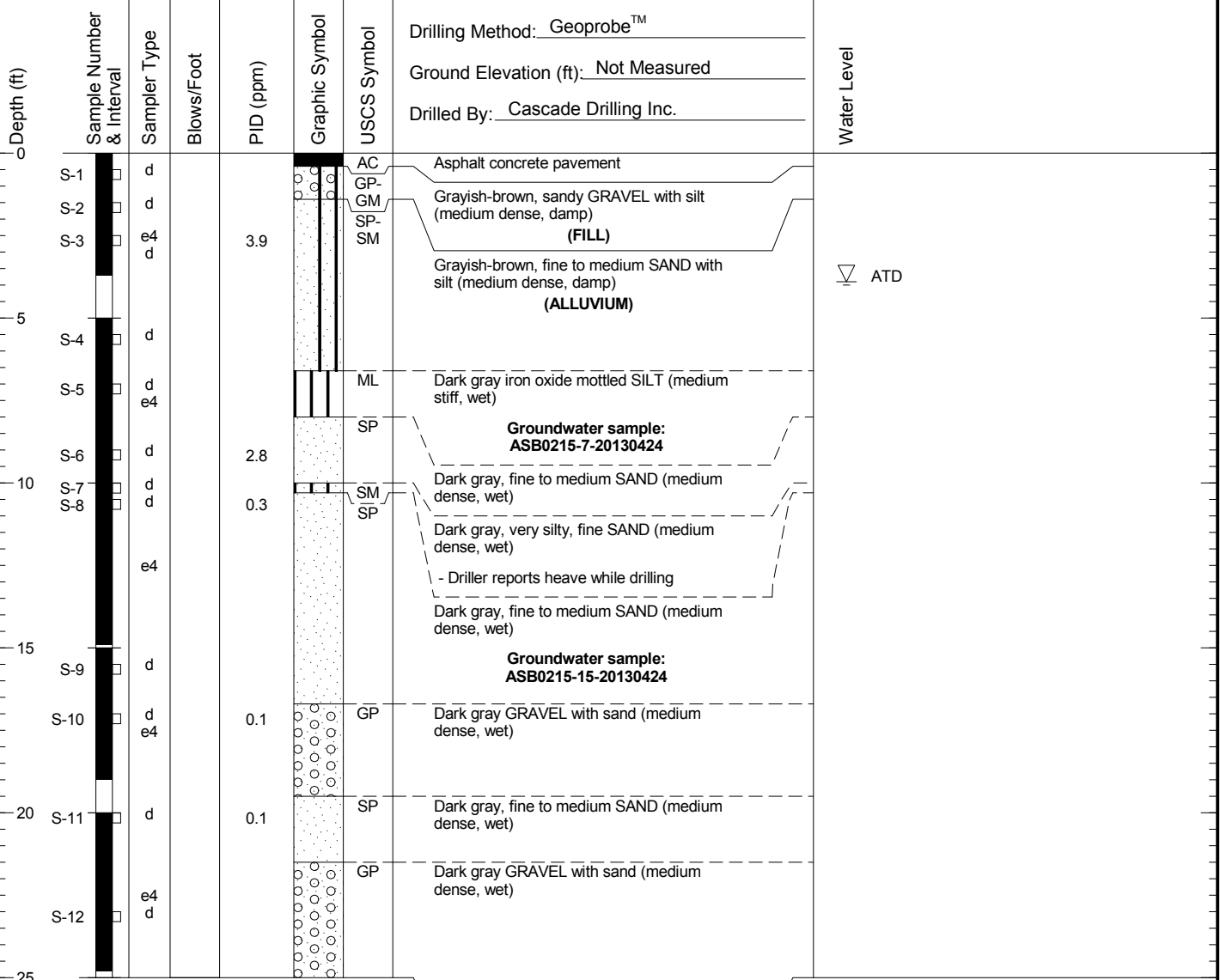
Figure
B-95

ASB0215

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/24/13
Total Depth of Boring = 25.0 ft.

Groundwater sample:
ASB0215-25-20130424

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-46.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0215

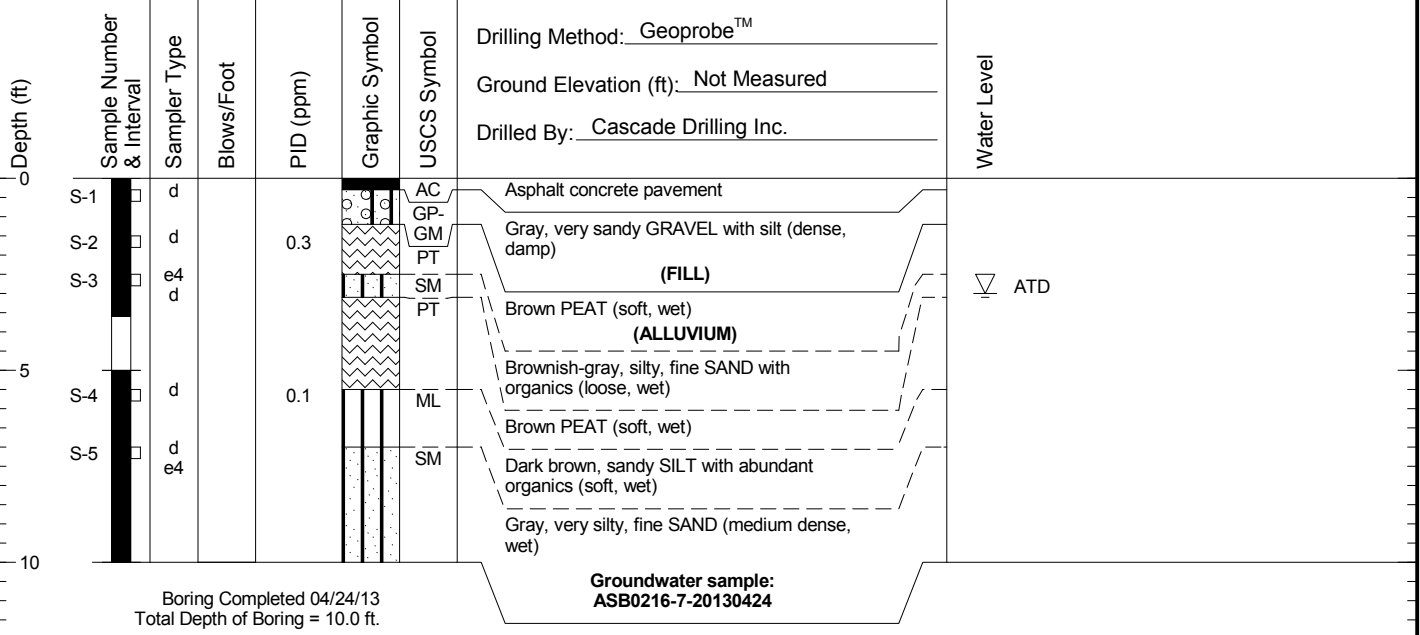
Figure
B-96

ASB0216

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-49.



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Log of Boring ASB0216

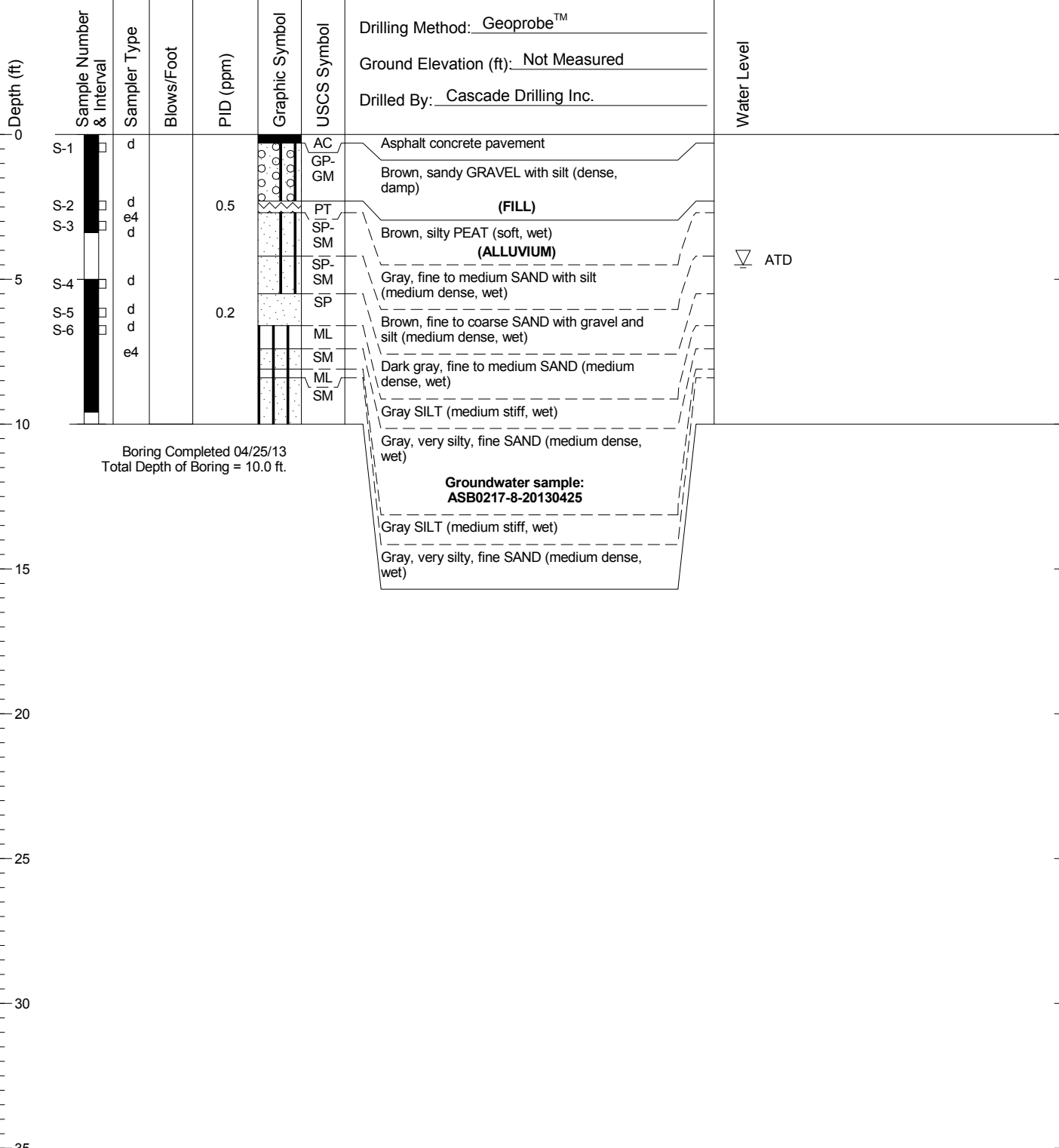
Figure
B-97

ASB0217

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-12.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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 Investigation
 Auburn, Washington

Log of Boring ASB0217

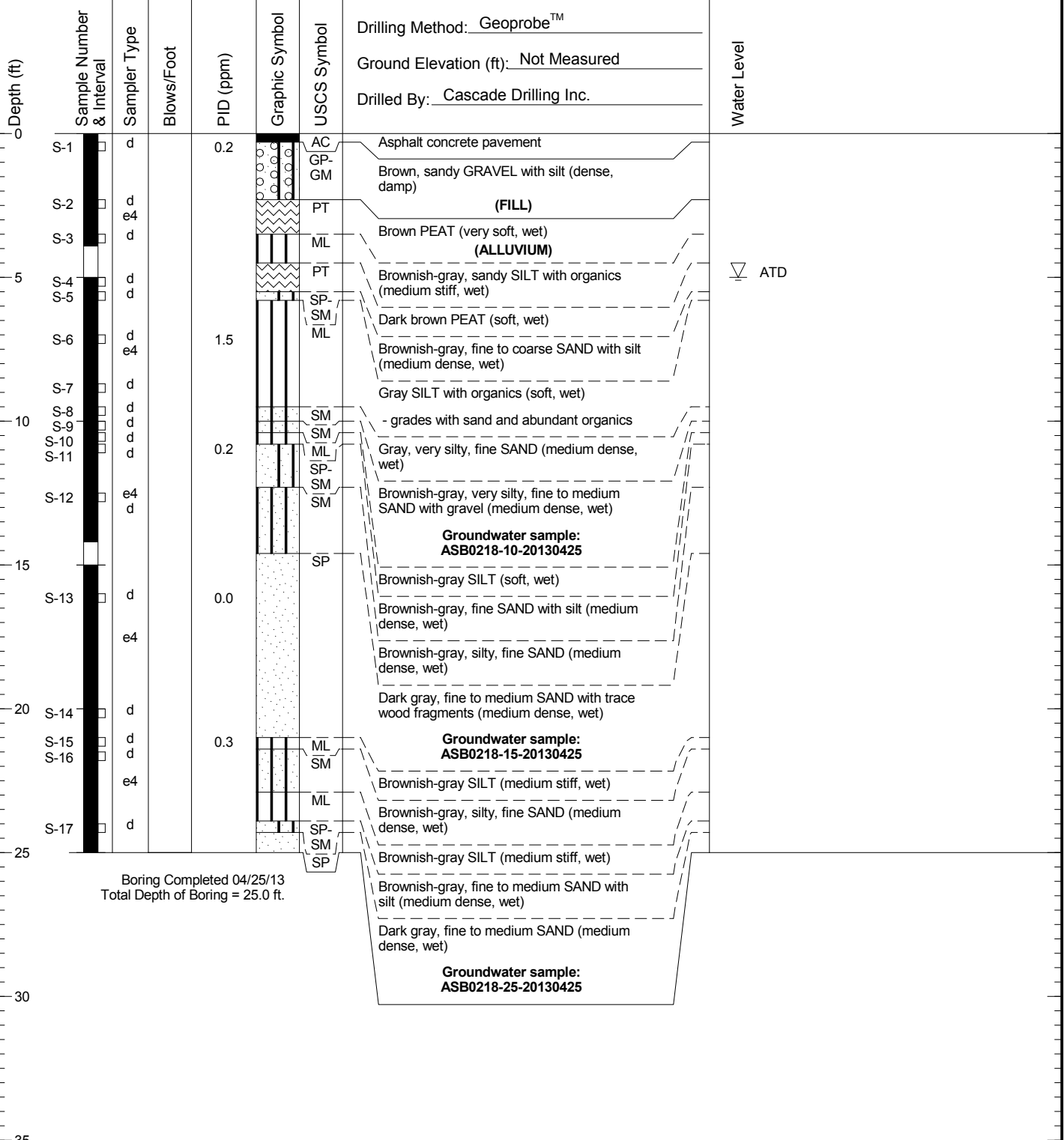
Figure
B-98

ASB0218

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/25/13
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-22.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPJ SOIL BORING LOG

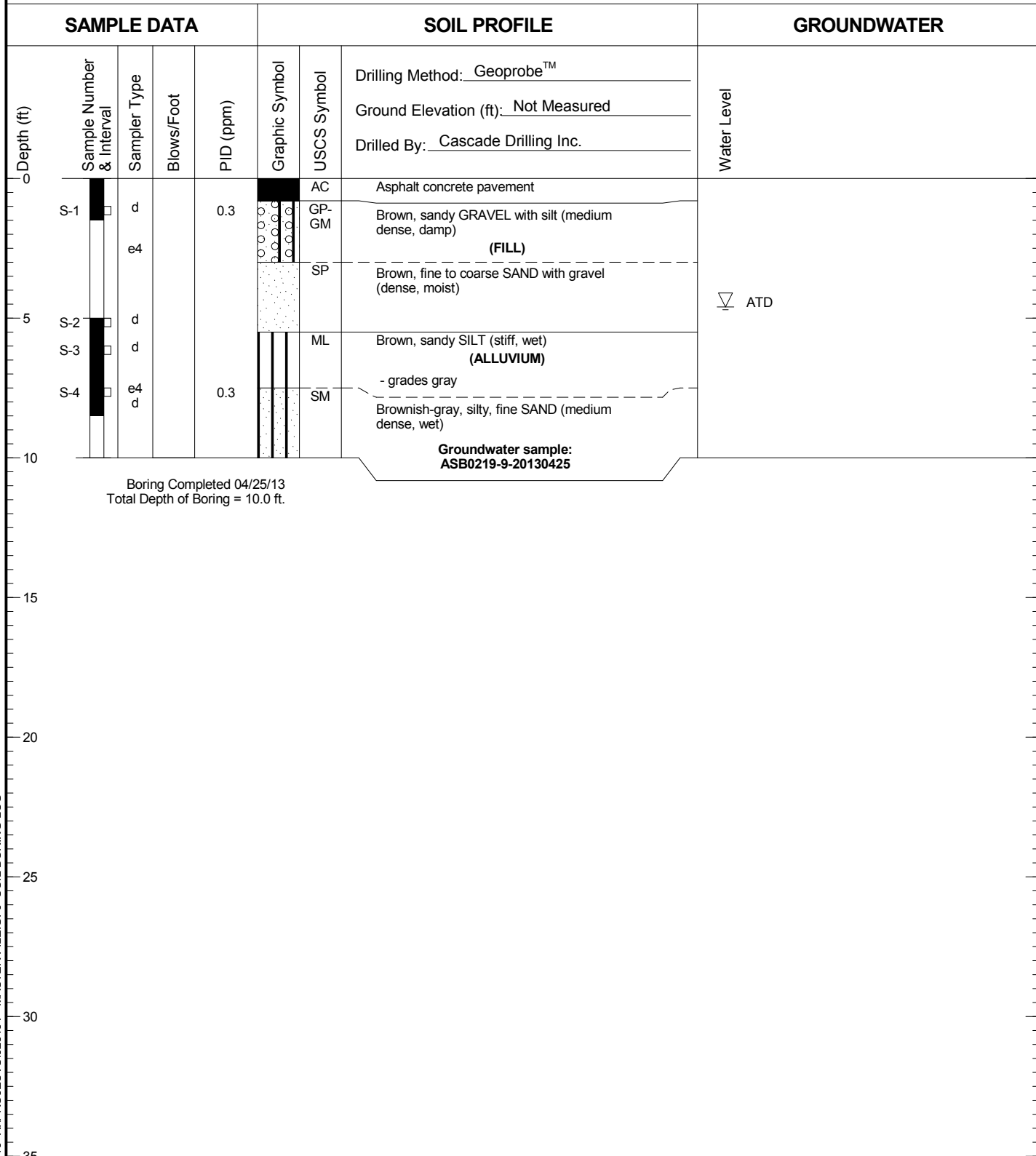


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Log of Boring ASB0218

Figure
B-99

ASB0219



025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-32.

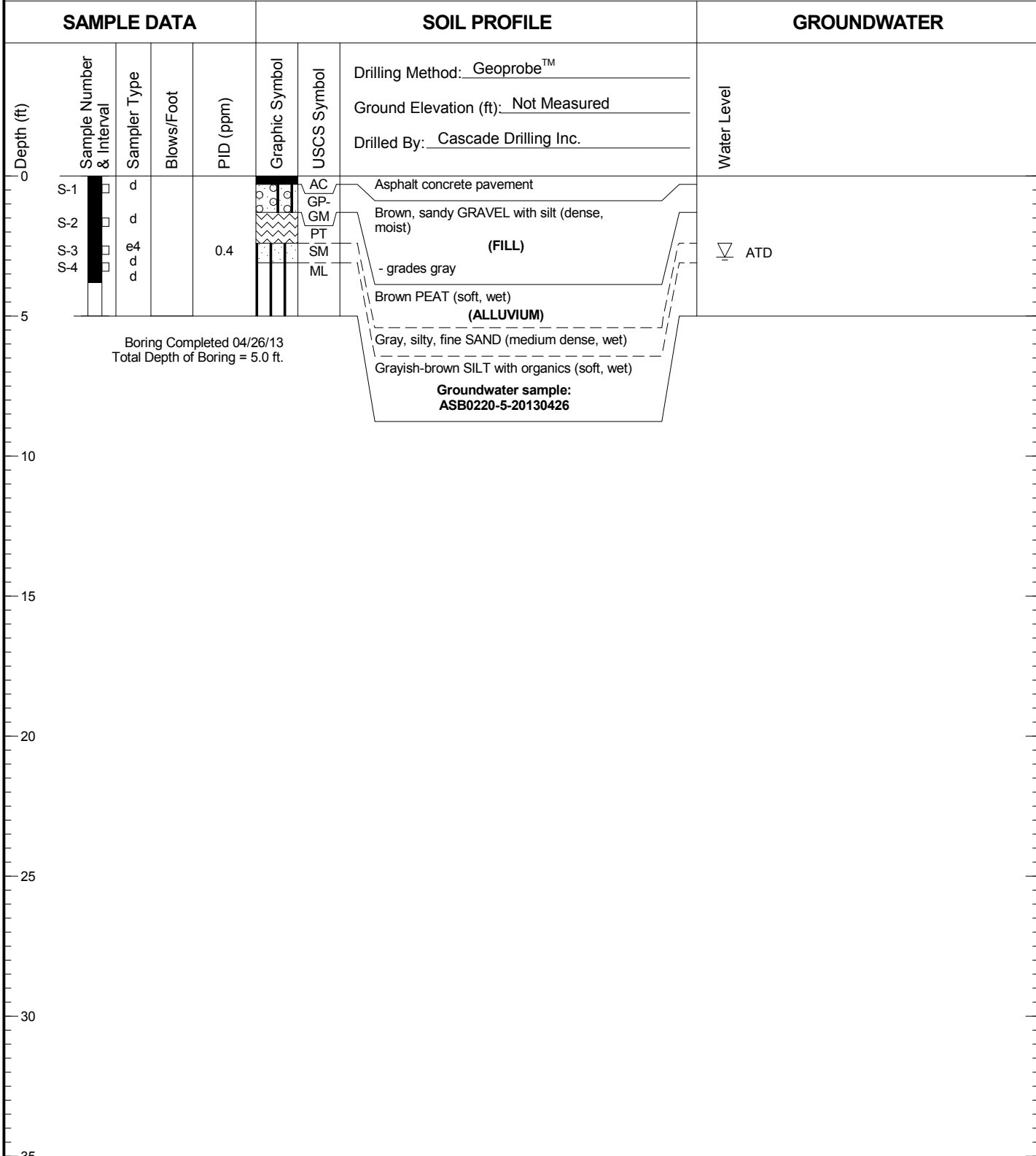


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Auburn, Washington

Log of Boring ASB0219

Figure
B-100

ASB0220



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-13.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0220

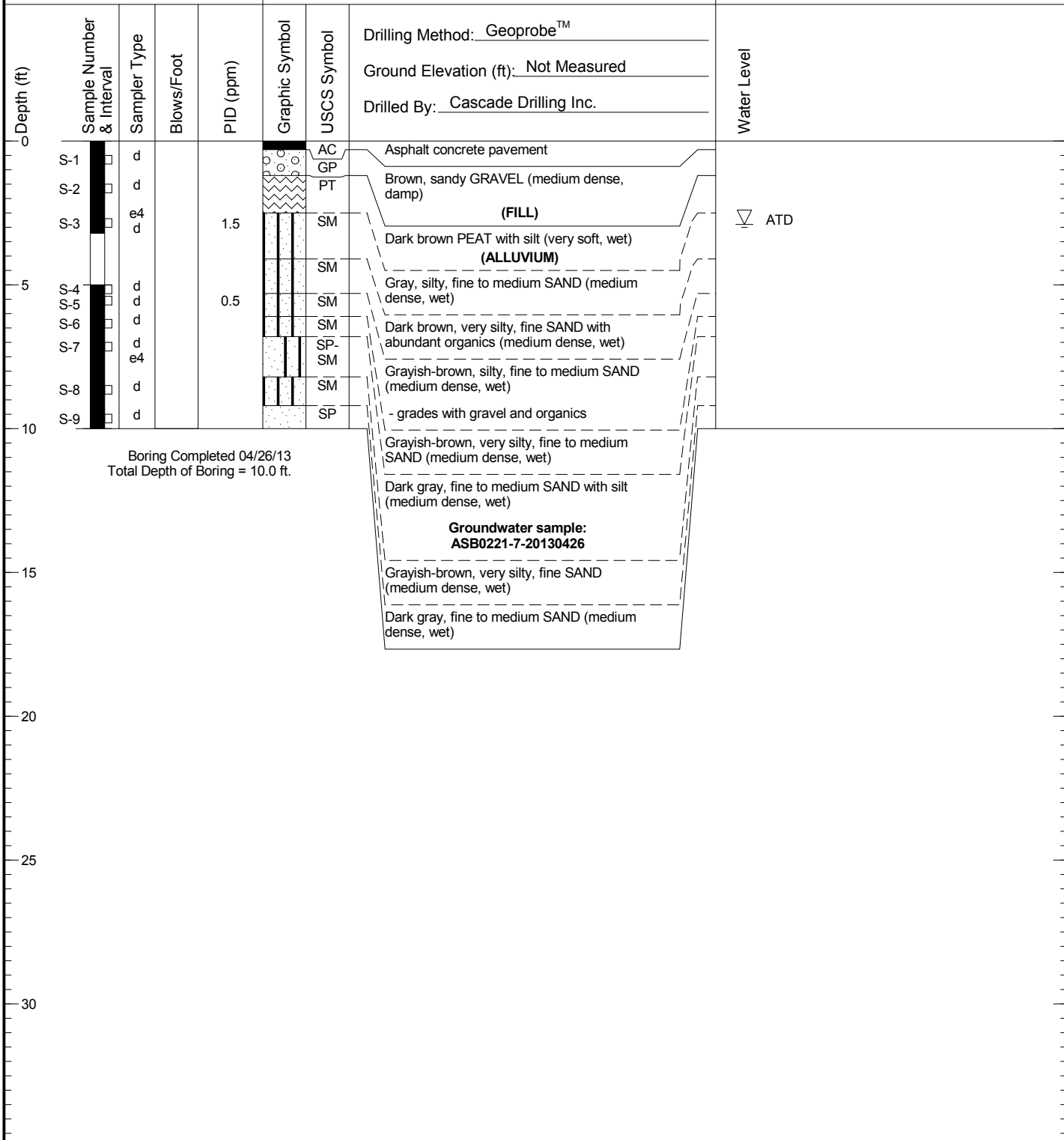
Figure
B-101

ASB0221

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/26/13
Total Depth of Boring = 10.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-23.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

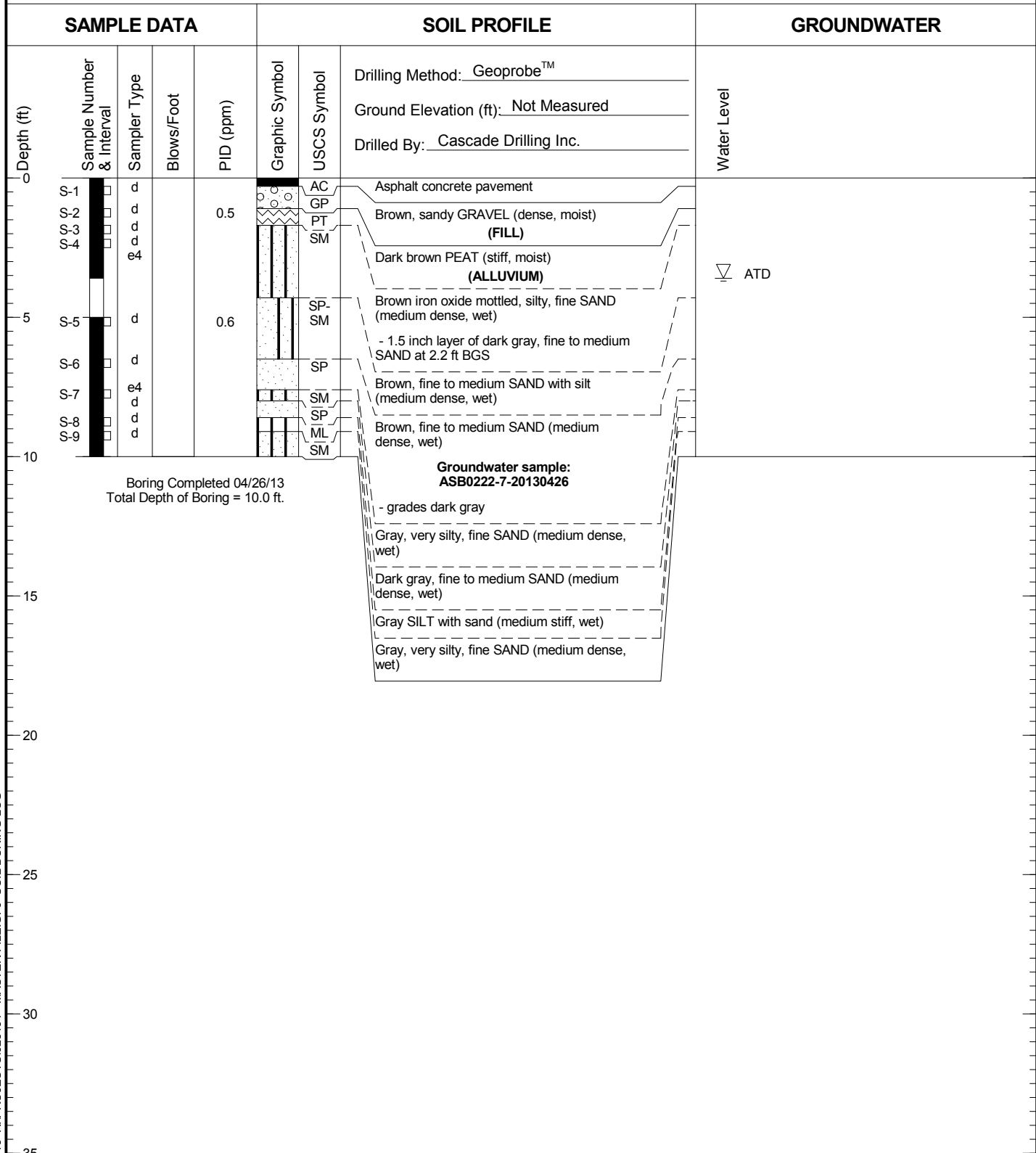


Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0221

Figure
B-102

ASB0222



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-33.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0222

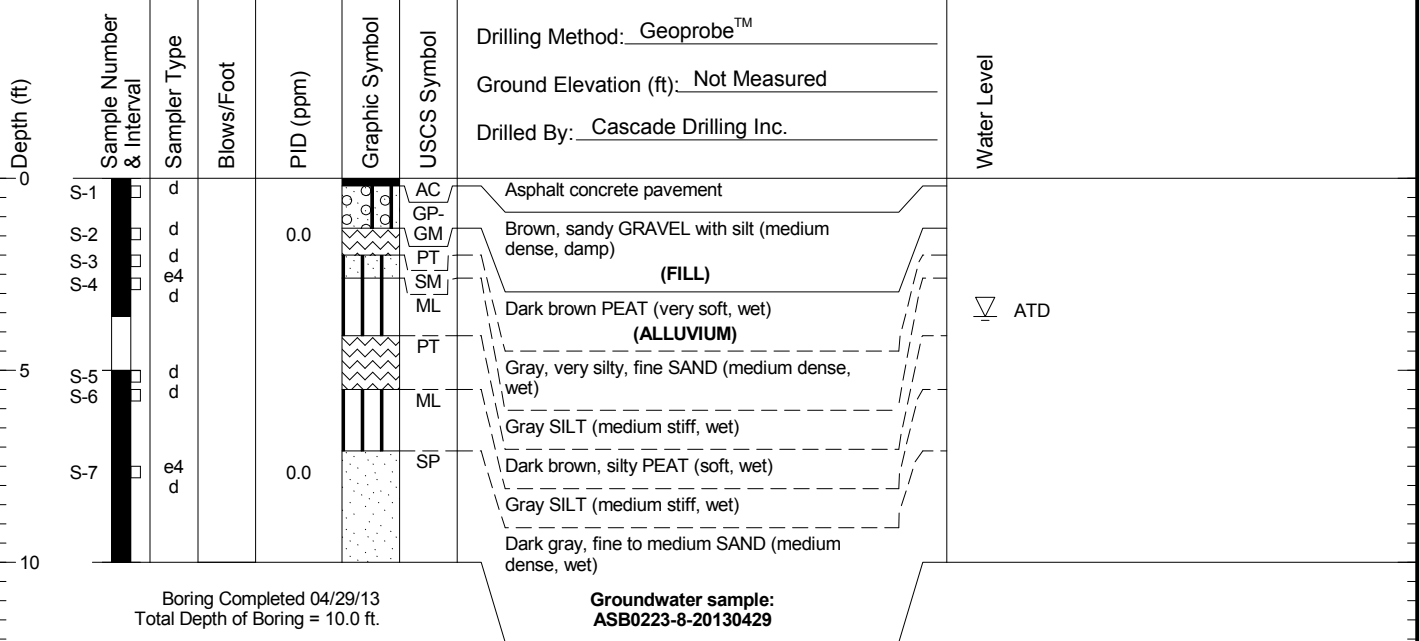
Figure
B-103

ASB0223

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-15.



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Log of Boring ASB0223

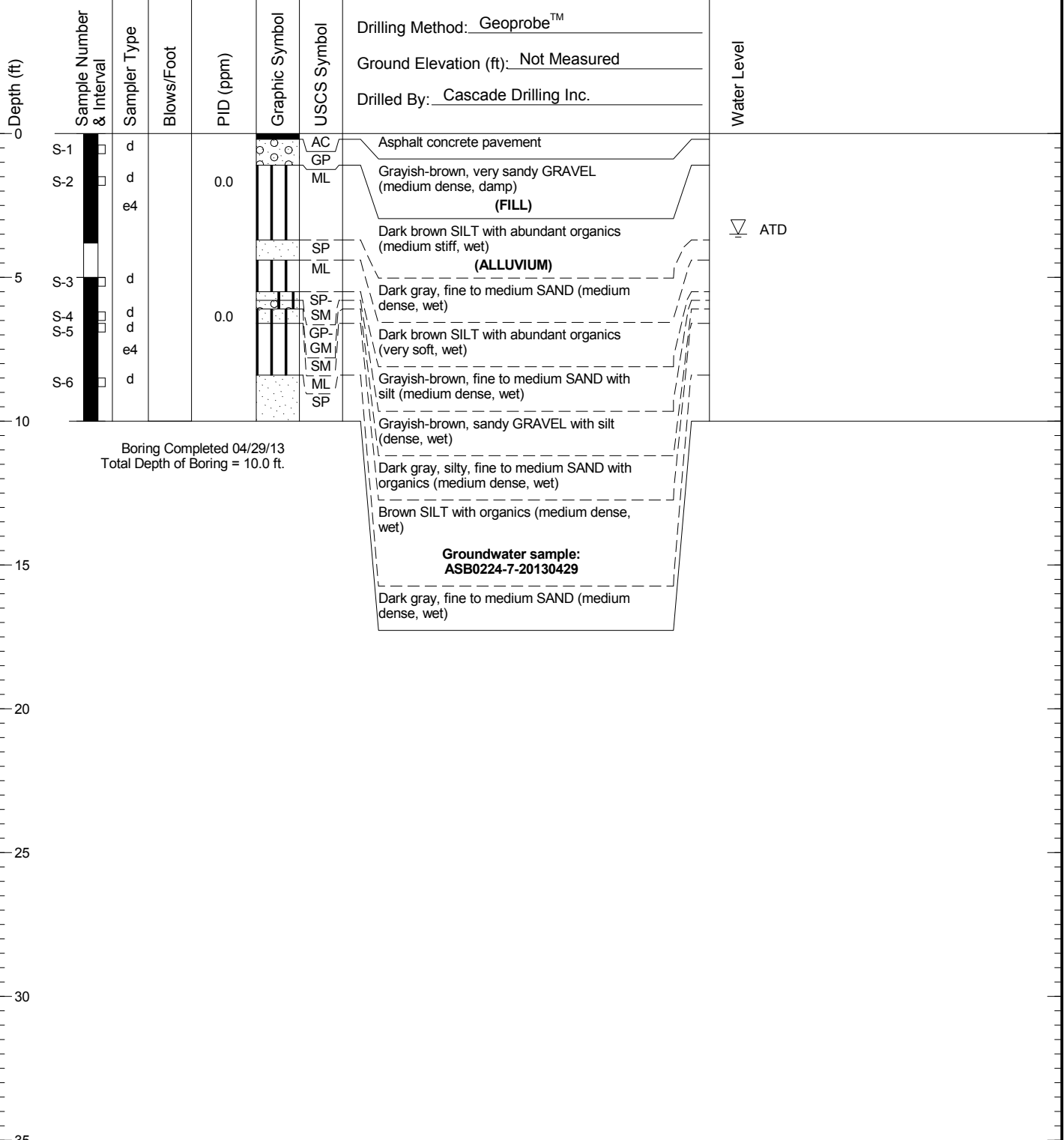
Figure
B-104

ASB0224

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-25.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

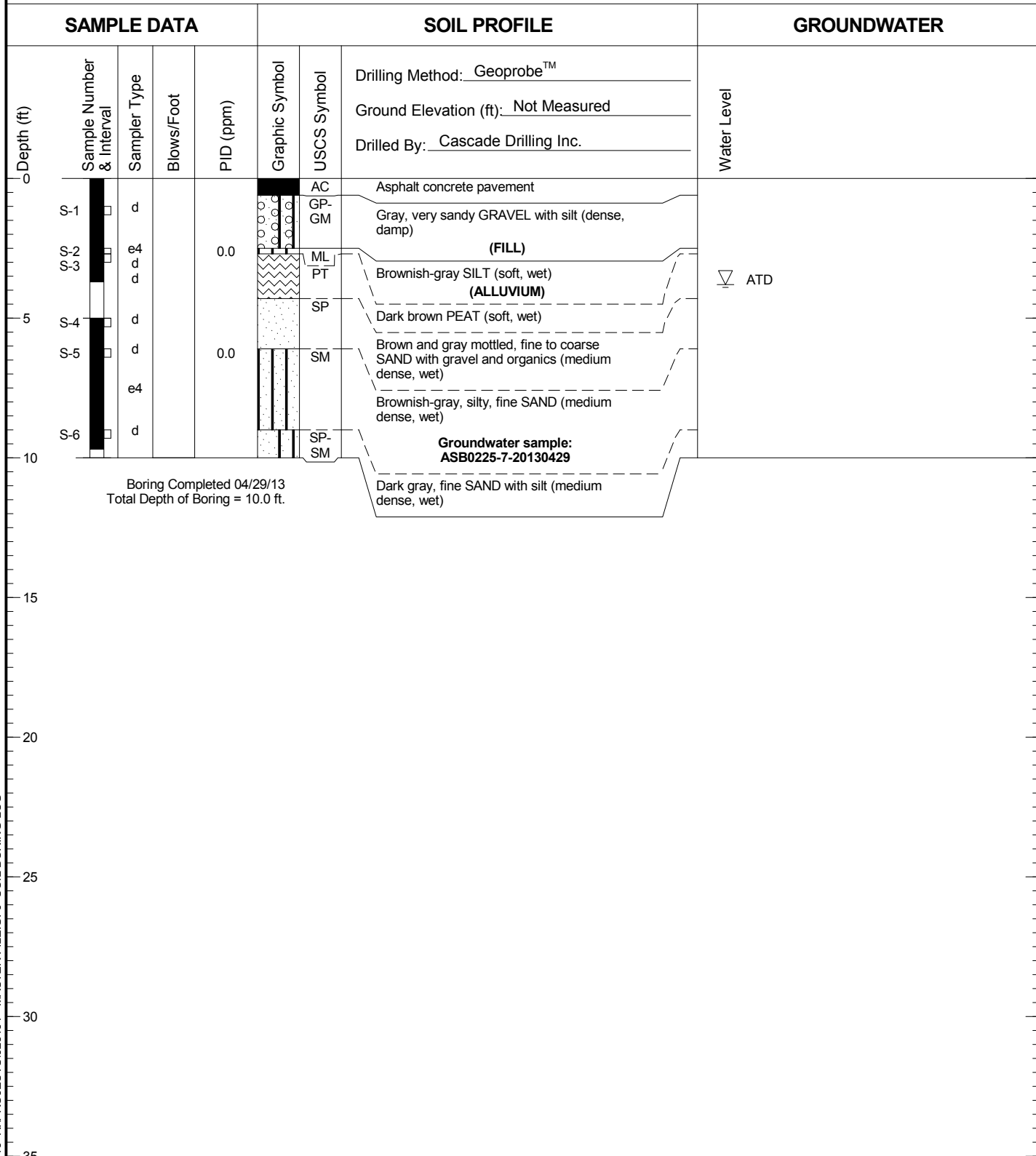


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 Investigation
 Auburn, Washington

Log of Boring ASB0224

Figure
 B-105

ASB0225



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-4.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0225

Figure
B-106

ASB0226

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Water Level
	S-1	d		0.1		SP-SM	Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
0		e4					Brownish-gray, very gravelly, fine to coarse SAND with silt (medium dense, moist)	
5		e4					See log for AGW227 for lithology due to poor recovery	▽ ATD
10							Groundwater sample: ASB0226-9-20130429	

Boring Completed 04/29/13
Total Depth of Boring = 10.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-2.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

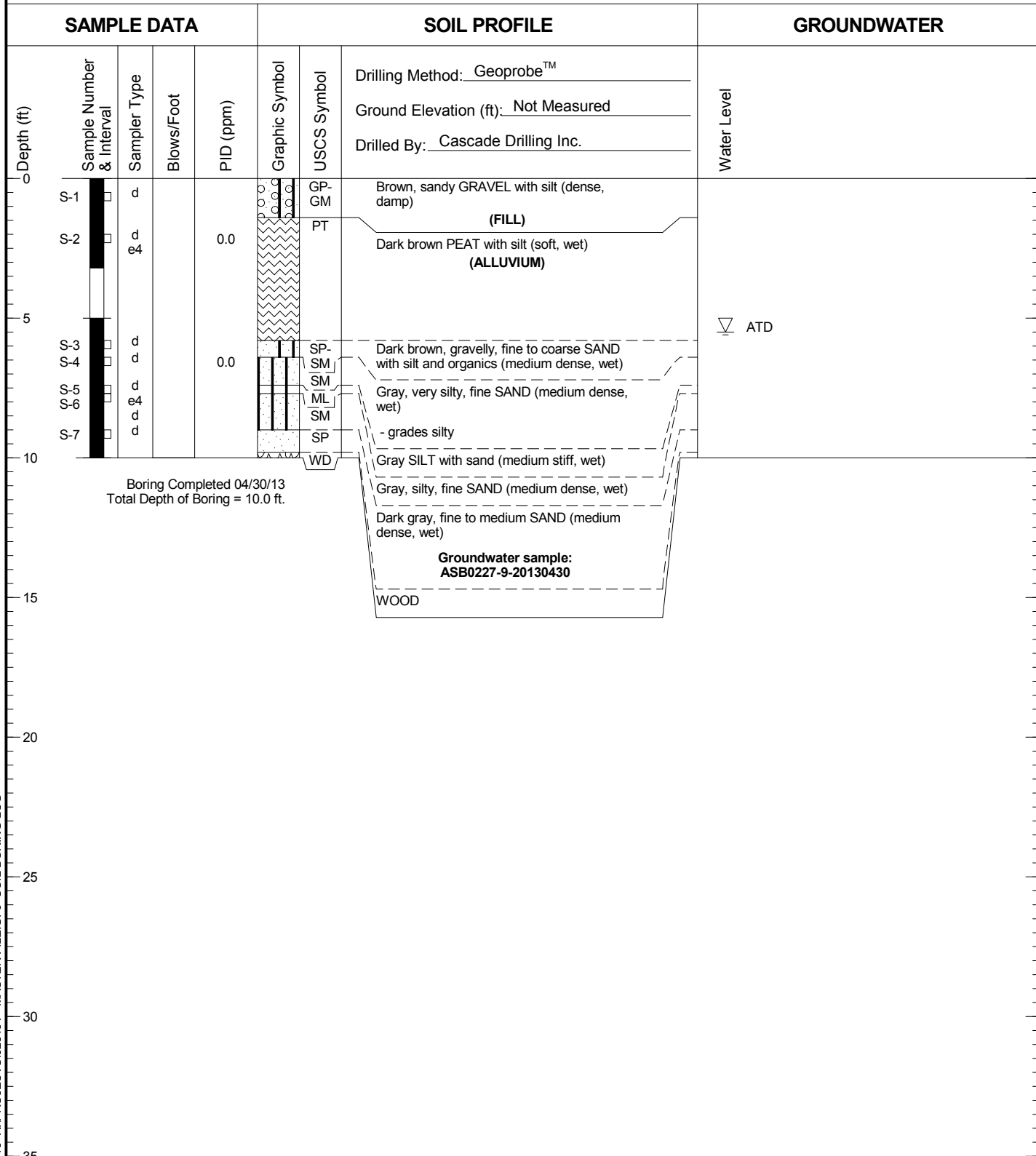


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Auburn, Washington

Log of Boring ASB0226

Figure
B-107

ASB0227



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-35.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0227

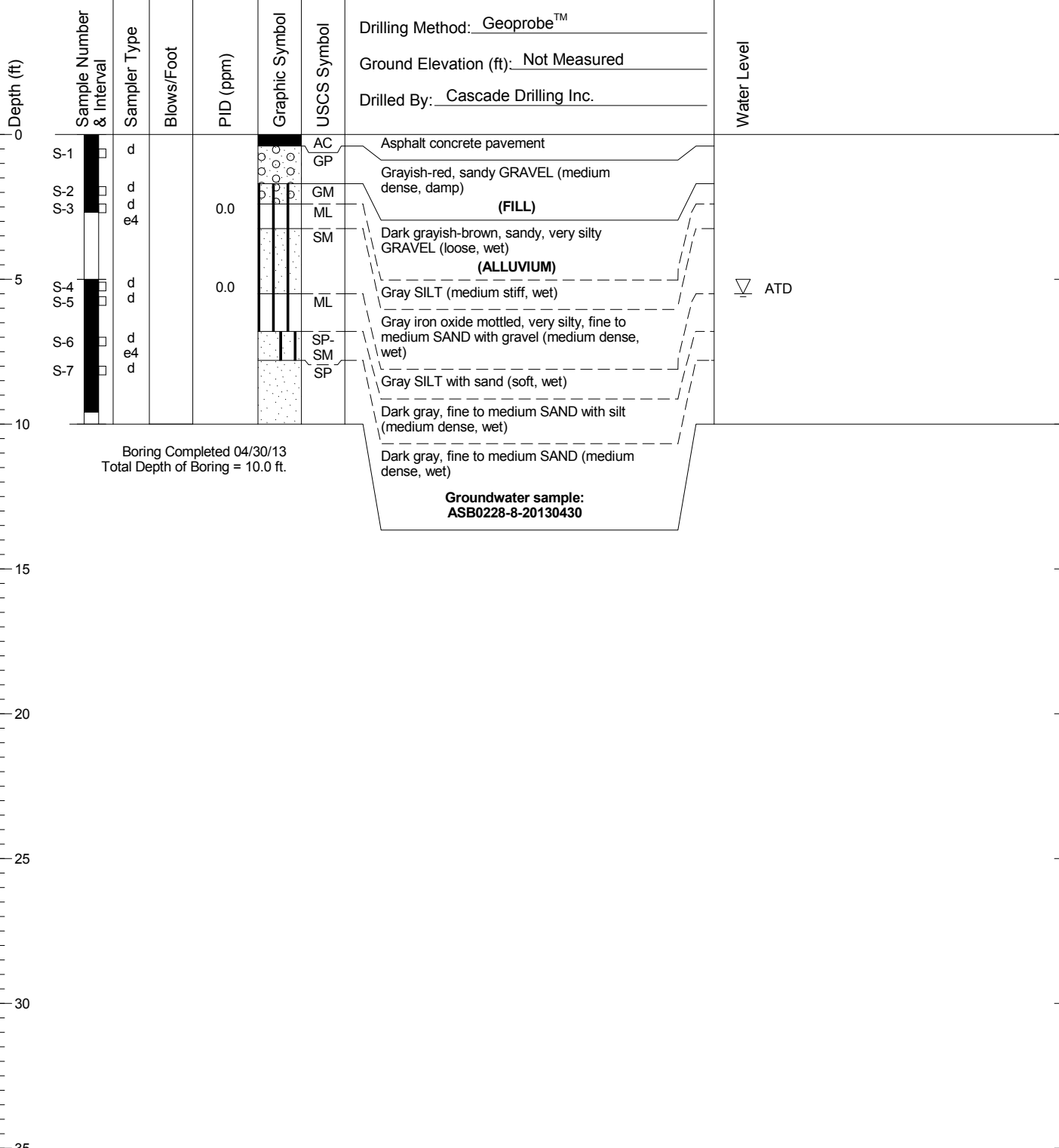
Figure
B-108

ASB0228

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 04/30/13
Total Depth of Boring = 10.0 ft.

Groundwater sample:
ASB0228-8-20130430

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-36.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0228

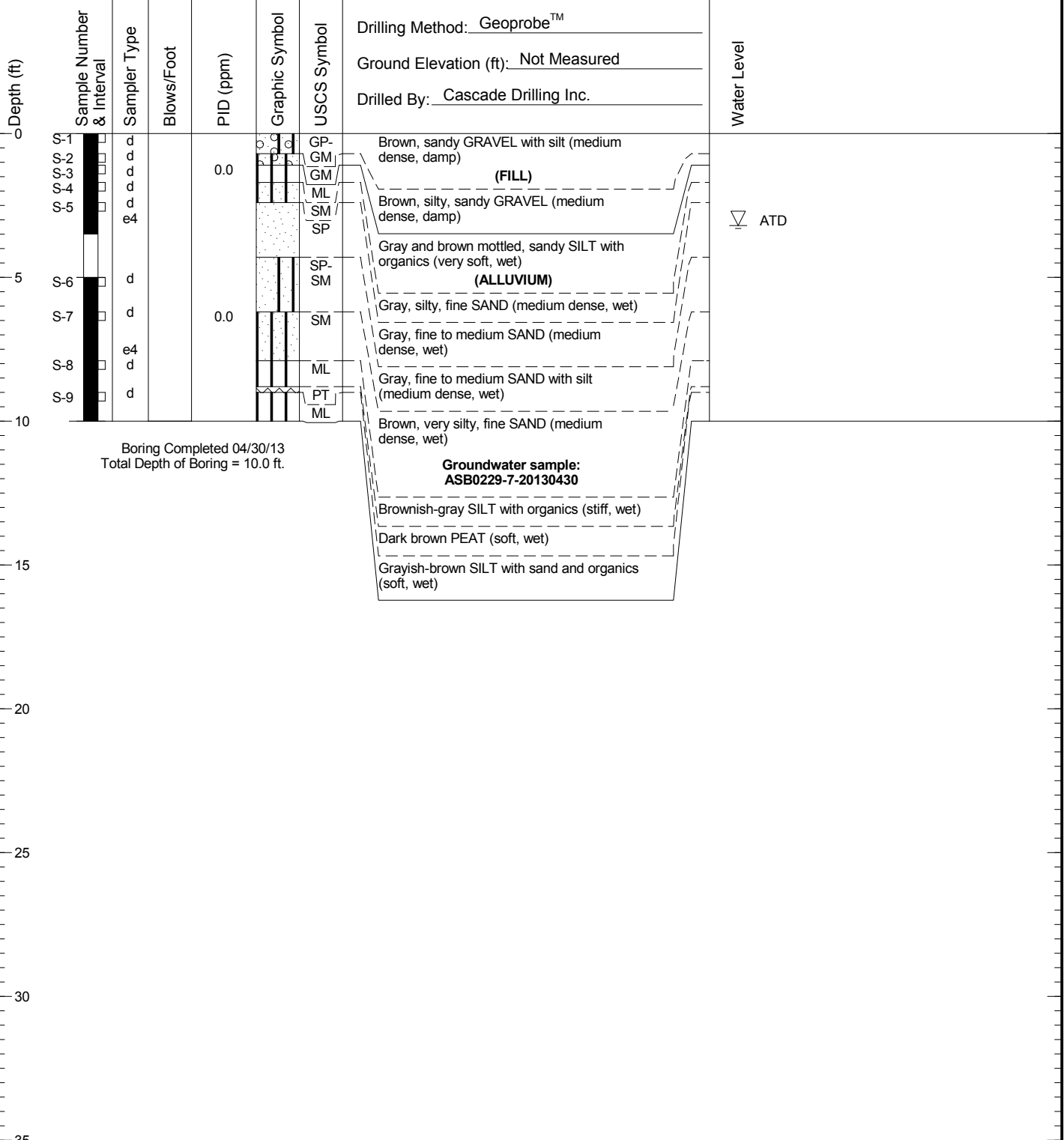
Figure
B-109

ASB0229

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-44.

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
 Investigation
 Auburn, Washington

Log of Boring ASB0229

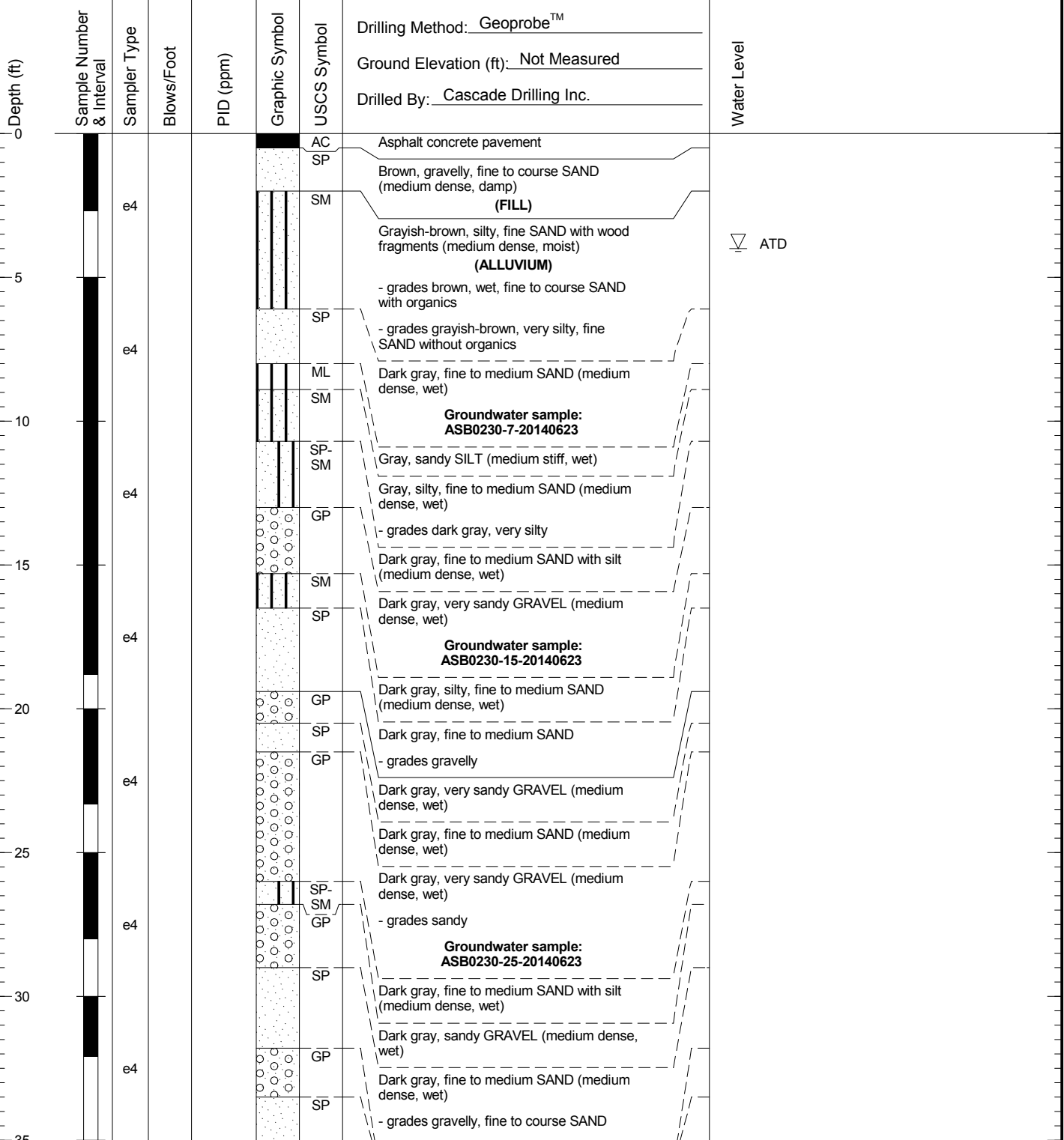
Figure
 B-110

ASB0230

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-1

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

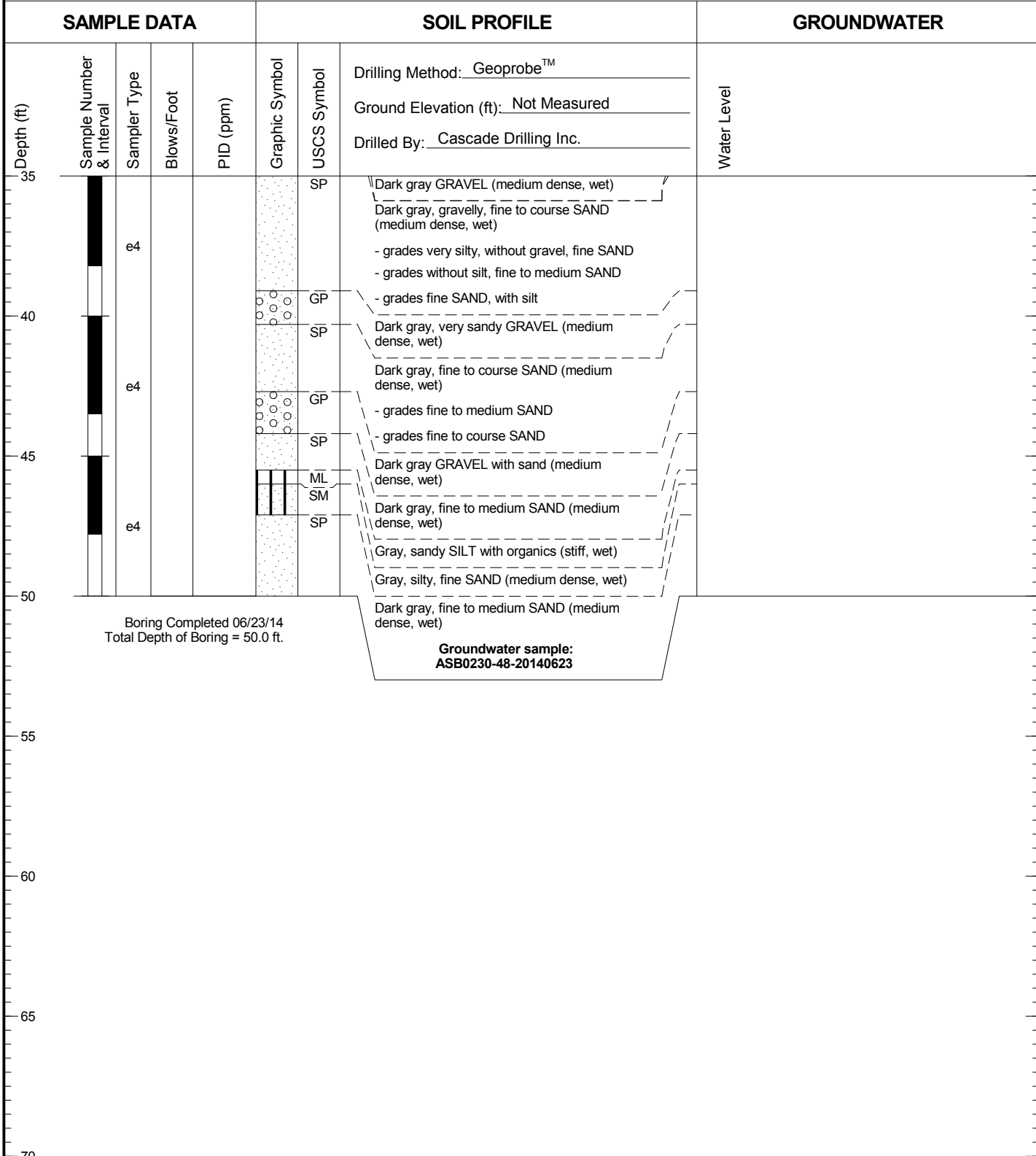


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Investigation
Auburn, Washington

Log of Boring ASB0230

Figure
B-111
(1 of 2)

ASB0230



Boring Completed 06/23/14
Total Depth of Boring = 50.0 ft.

Groundwater sample:
ASB0230-48-20140623

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-1

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

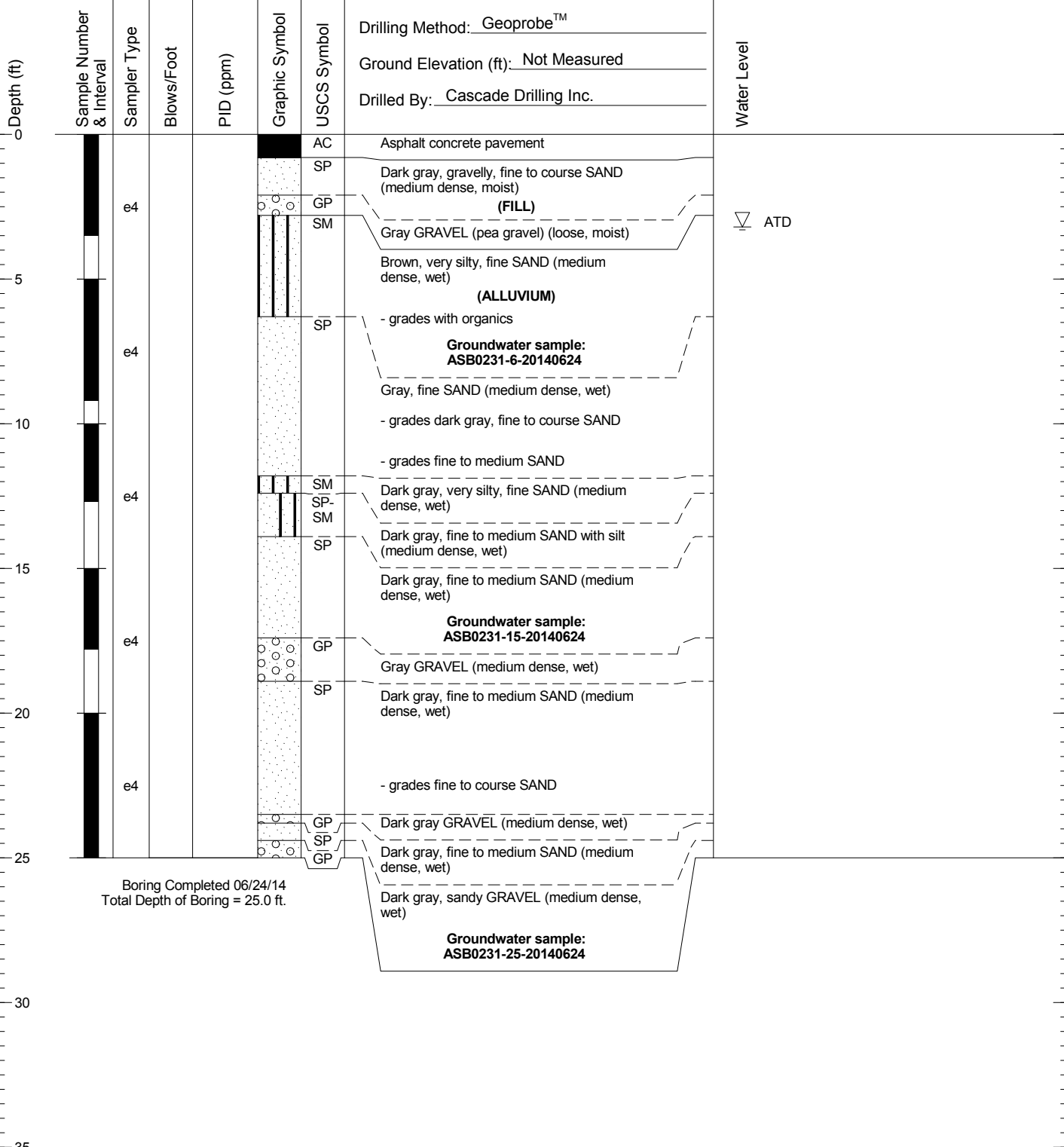


ASB0231

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 06/24/14
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-2

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0231

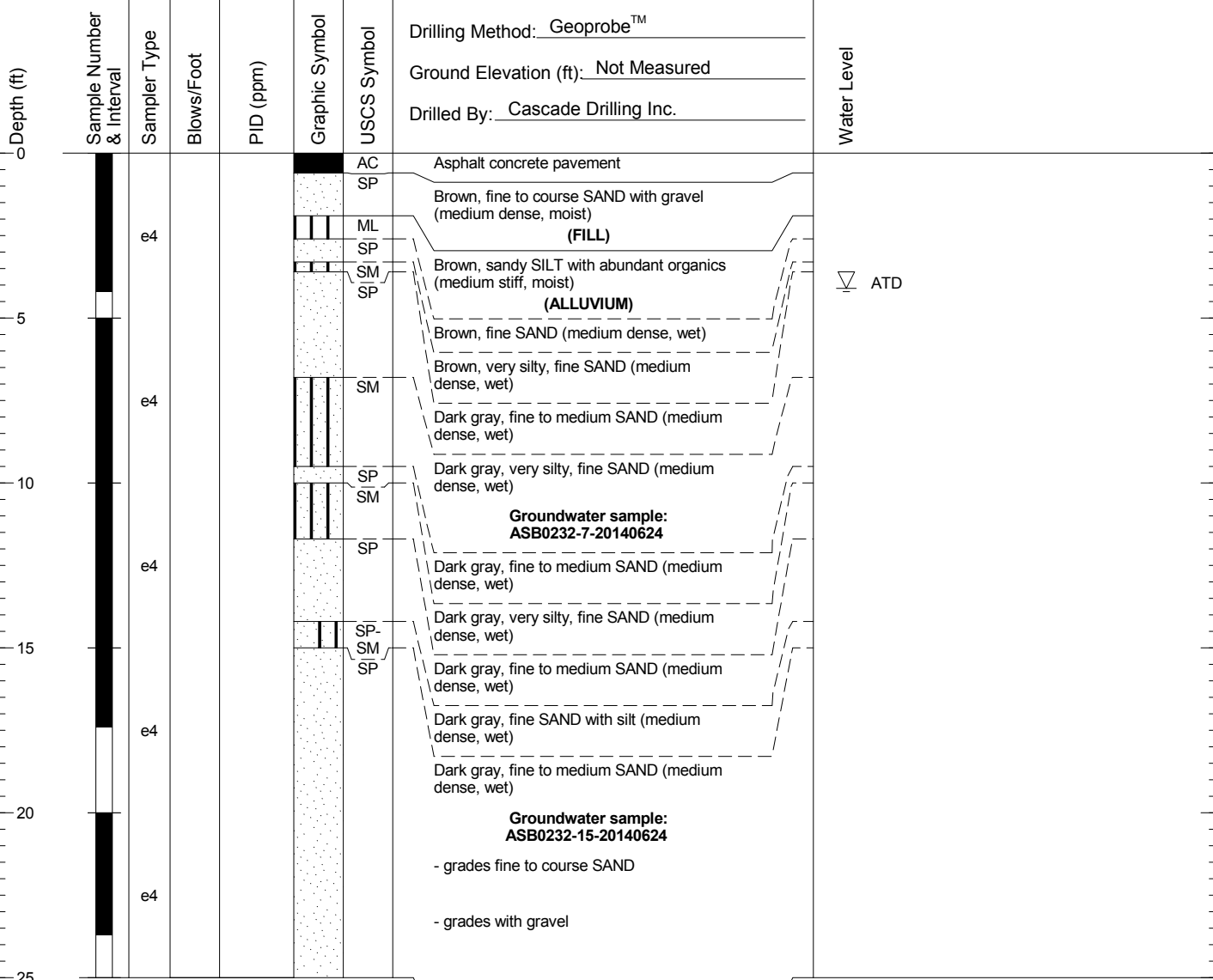
Figure
B-112

ASB0232

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 06/24/14
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-3

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0232

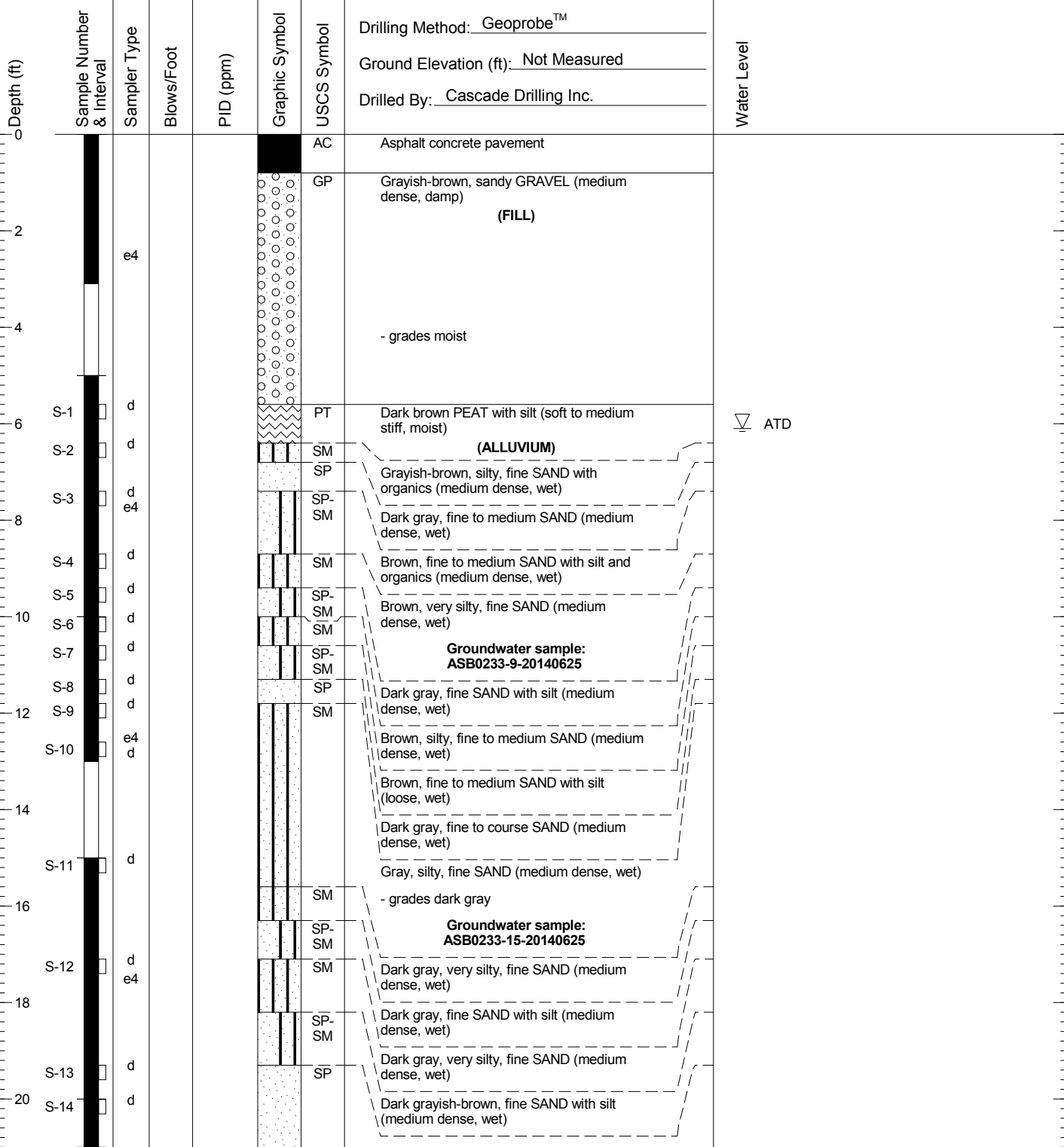
Figure
B-113

ASB0233

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-4

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0233

Figure
B-114
(1 of 3)

ASB0233

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
				Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>			
22	S-15	d e4			GP		
				- grades fine to medium SAND Dark gray, fine SAND (medium dense, wet) Gray, sandy GRAVEL (medium dense, wet)			
24					SP		
26	S-16	d e4					
				Dark gray, fine to medium SAND (medium dense, wet) Groundwater sample: ASB0233-25-20140625			
28							
30							
32		e4					
				- grades gravelly, fine to course SAND (medium dense, wet)			
34							
36	S-17	d e4					
38							
40					SP- SM		
				Dark gray, fine to medium SAND with silt (loose, wet)			
42							

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-4

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0233


Figure
B-114
(2 of 3)

ASB0233

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Description	Water Level
42							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>Not Measured</u> Drilled By: <u>Cascade Drilling Inc.</u>	
42 - 45		e4					Dark gray GRAVEL with sand (medium dense, wet)	
45 - 50		4					Not sampled	

ASB0233-50-20140625

Boring Completed 06/25/14
Total Depth of Boring = 50.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-4



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Investigation
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Log of Boring ASB0233

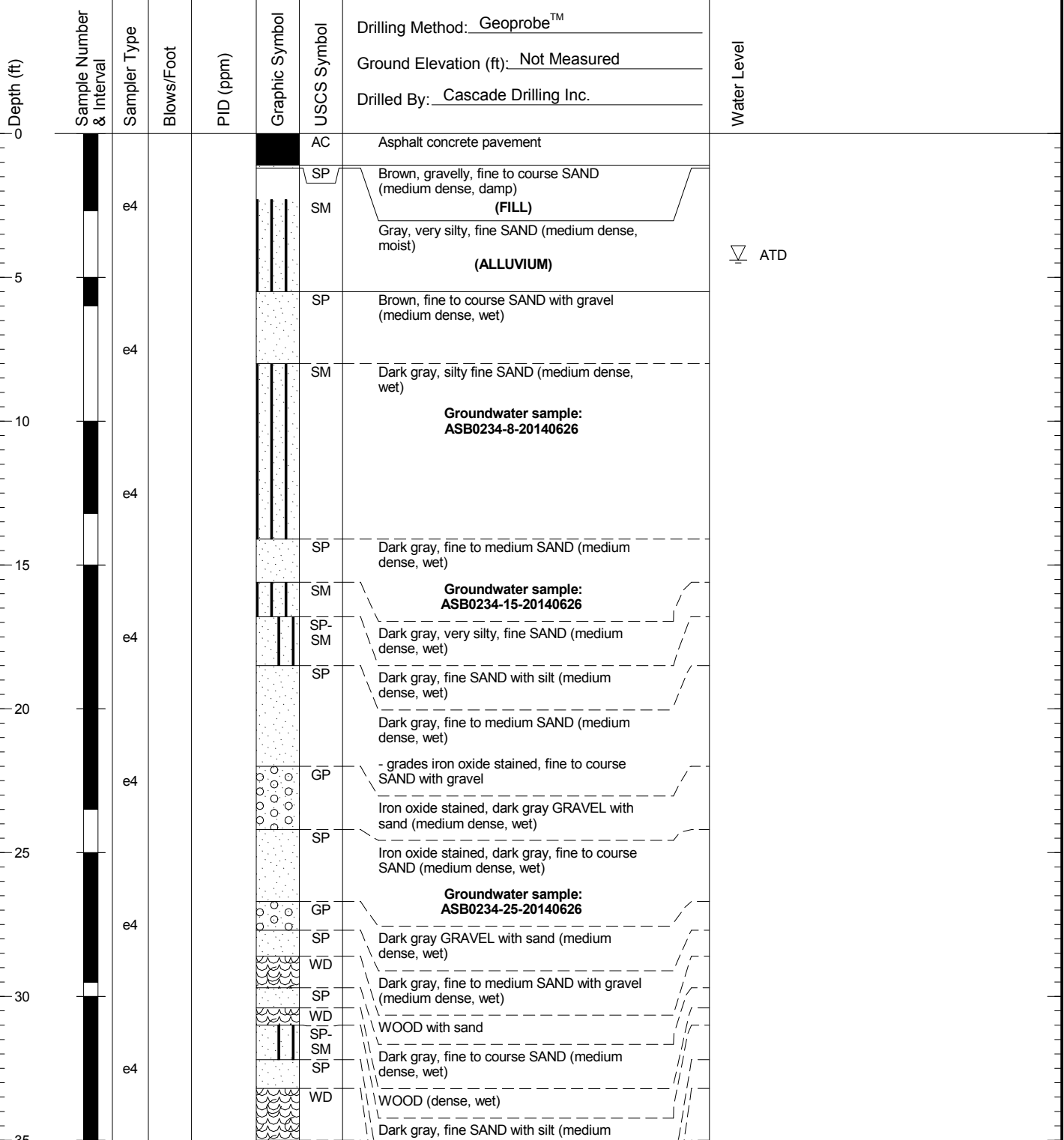
Figure
B-114
(3 of 3)

ASB0234

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-5

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0234

Figure
B-115
(1 of 2)

ASB0234

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
	35	e4			SP	SP	
35	e4				GP	GP	
40	e4				SP	SP	
45	4					Not sampled	
50				Groundwater sample: ASB0234-50-20140626			

Boring Completed 06/26/14
Total Depth of Boring = 50.0 ft.

**Groundwater sample:
ASB0234-50-20140626**

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-5

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0234

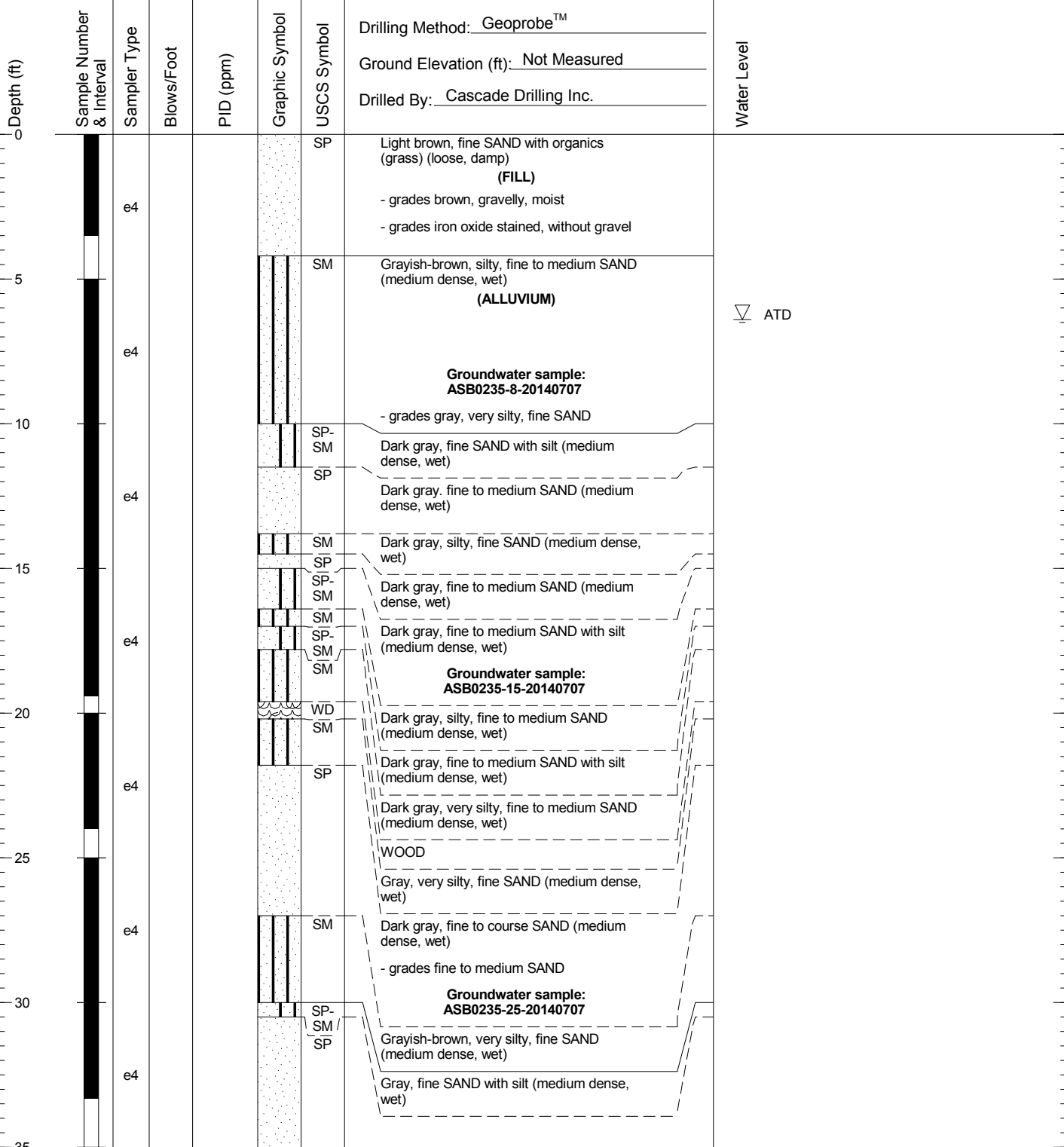
Figure
B-115
(2 of 2)

ASB0235

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-6

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0235

Figure
B-116
(1 of 2)

ASB0235

SAMPLE DATA		SOIL PROFILE				GROUNDWATER							
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Ground Elevation (ft): <u>Not Measured</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level			
35						SP							
40		e4									Dark gray, fine to medium SAND (medium dense, wet) - grades fine to course SAND with gravel at 34.2		
45		e4											
50		4					Not sampled						
Boring Completed 07/07/14 Total Depth of Boring = 50.0 ft.							Groundwater sample: ASB0235-50-20140707						

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-6

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0235

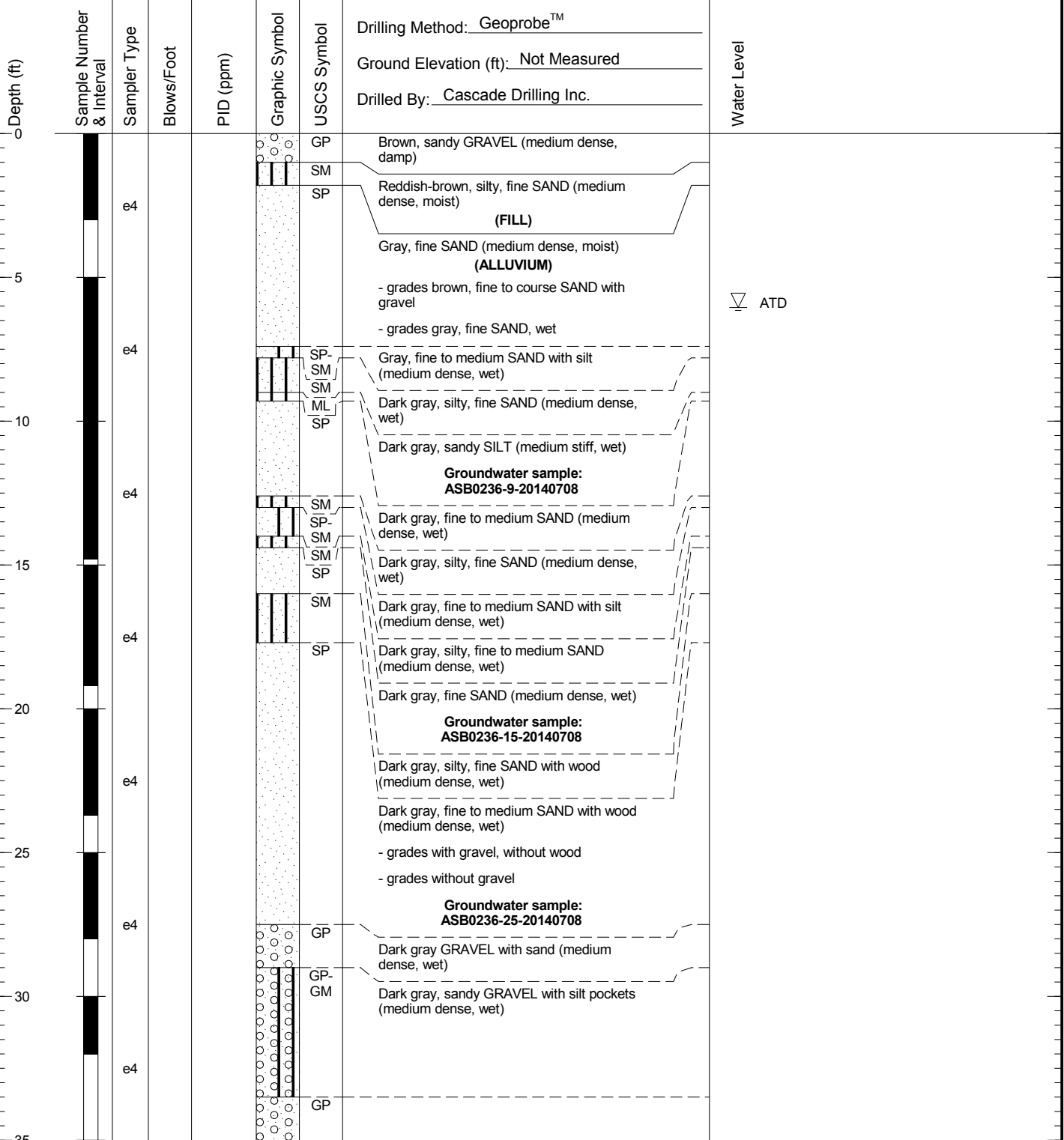
Figure
B-116
(2 of 2)

ASB0236

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-7

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0236

Figure
B-117
(1 of 2)

ASB0236

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Water Level
	35						Ground Elevation (ft): <u>Not Measured</u>	
	e4				GP		Drilled By: <u>Cascade Drilling Inc.</u>	
					SP-SM / GP		Dark gray, sandy GRAVEL (medium dense, wet)	
					GP		Dark gray, fine to medium SAND with silt (medium dense, wet)	
	e4				SP		Dark gray, sandy GRAVEL (medium dense, wet)	
					GP		Dark gray, gravelly fine to course SAND (medium dense, wet)	
	4				GP		Dark gray GRAVEL (dense, wet)	
							Not sampled	
							Groundwater sample: ASB0236-50-20140708	
	Boring Completed 07/08/14 Total Depth of Boring = 50.0 ft.							

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-7

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0236

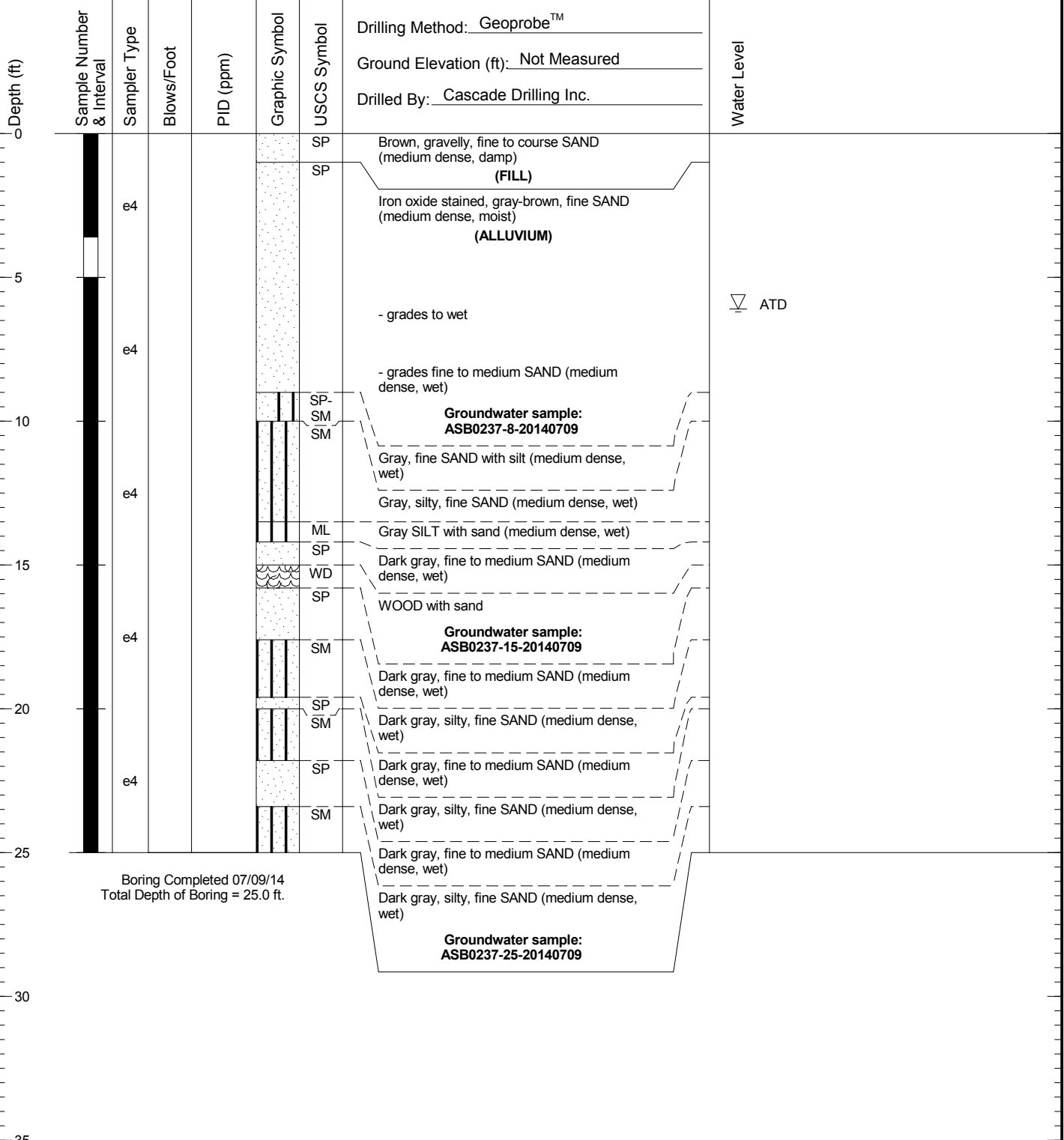
Figure
B-117
(2 of 2)

ASB0237

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 07/09/14
Total Depth of Boring = 25.0 ft.

▽ ATD

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-9

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0237

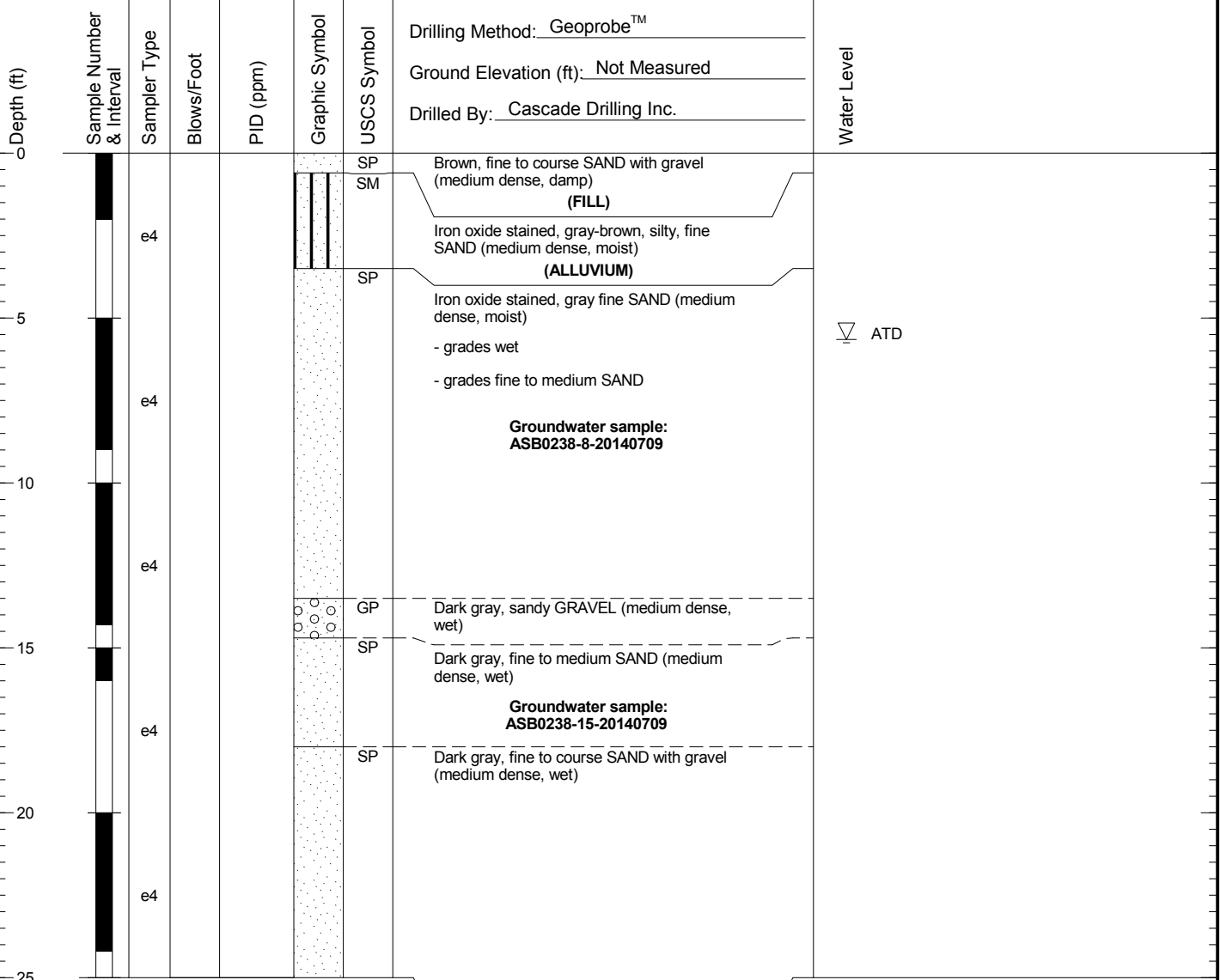
Figure
B-118

ASB0238

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 07/09/14
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-10

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

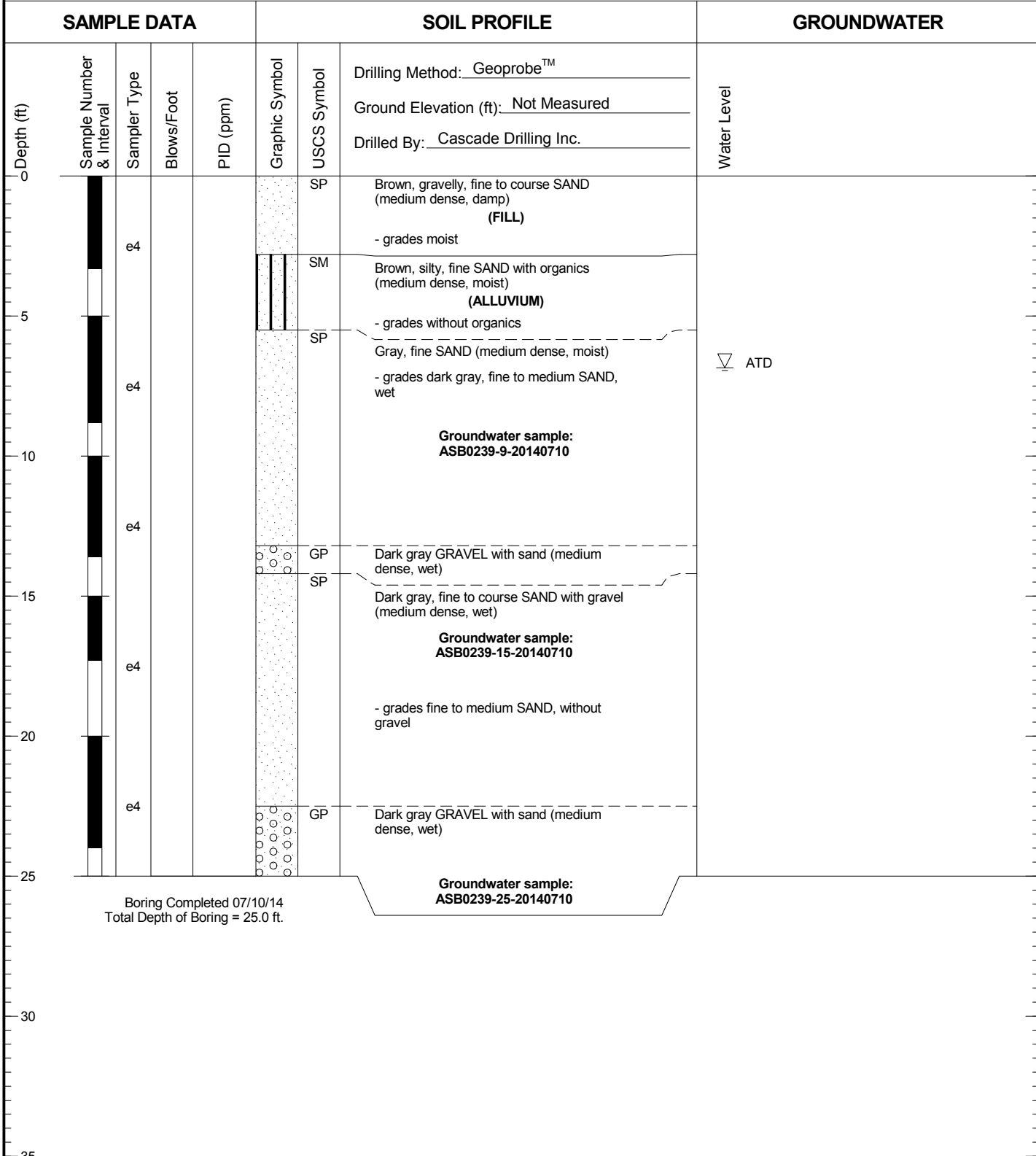


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Auburn, Washington

Log of Boring ASB0238

Figure
B-119

ASB0239



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-11

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

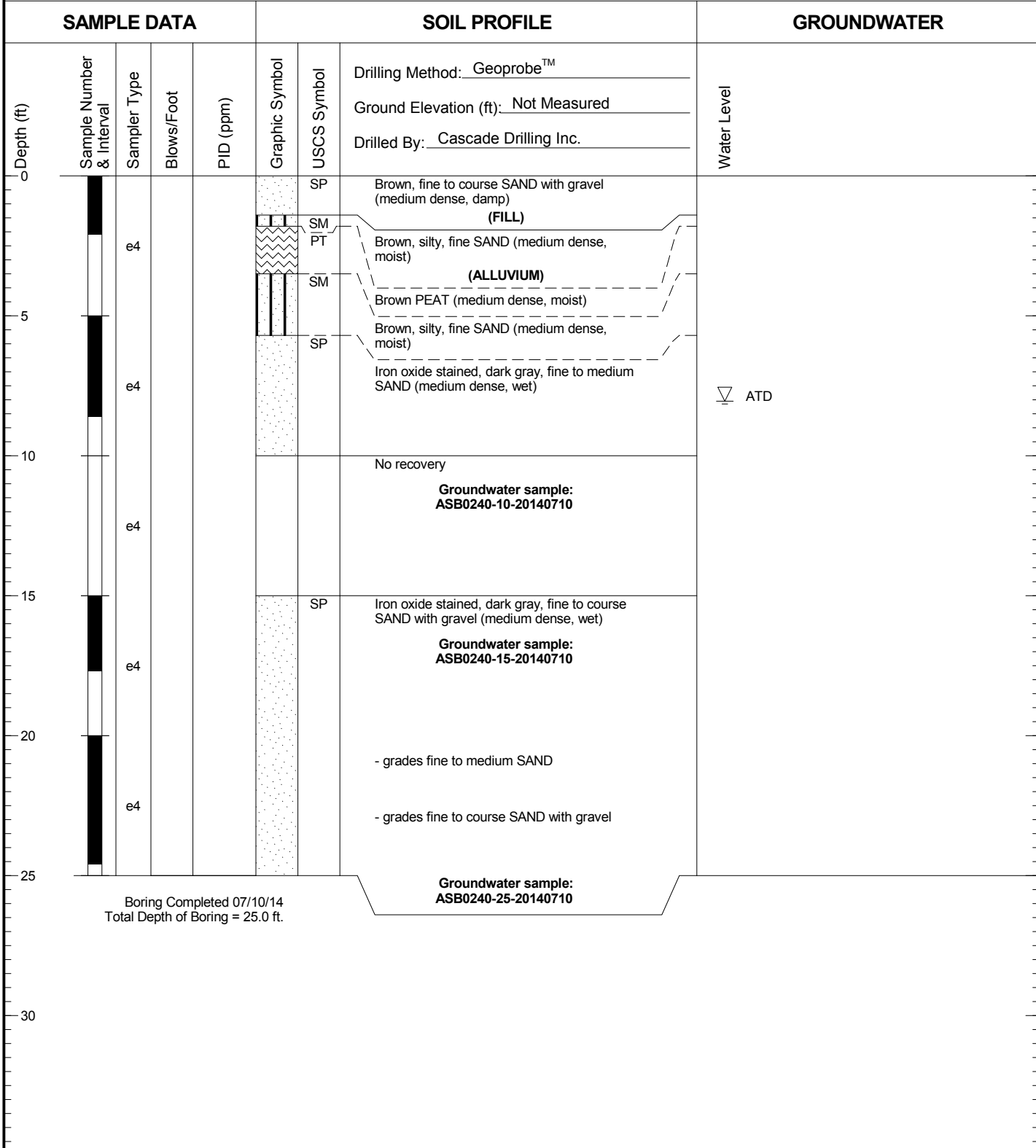


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Investigation
Auburn, Washington

Log of Boring ASB0239

Figure
B-120

ASB0240



Boring Completed 07/10/14
Total Depth of Boring = 25.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-12

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0240

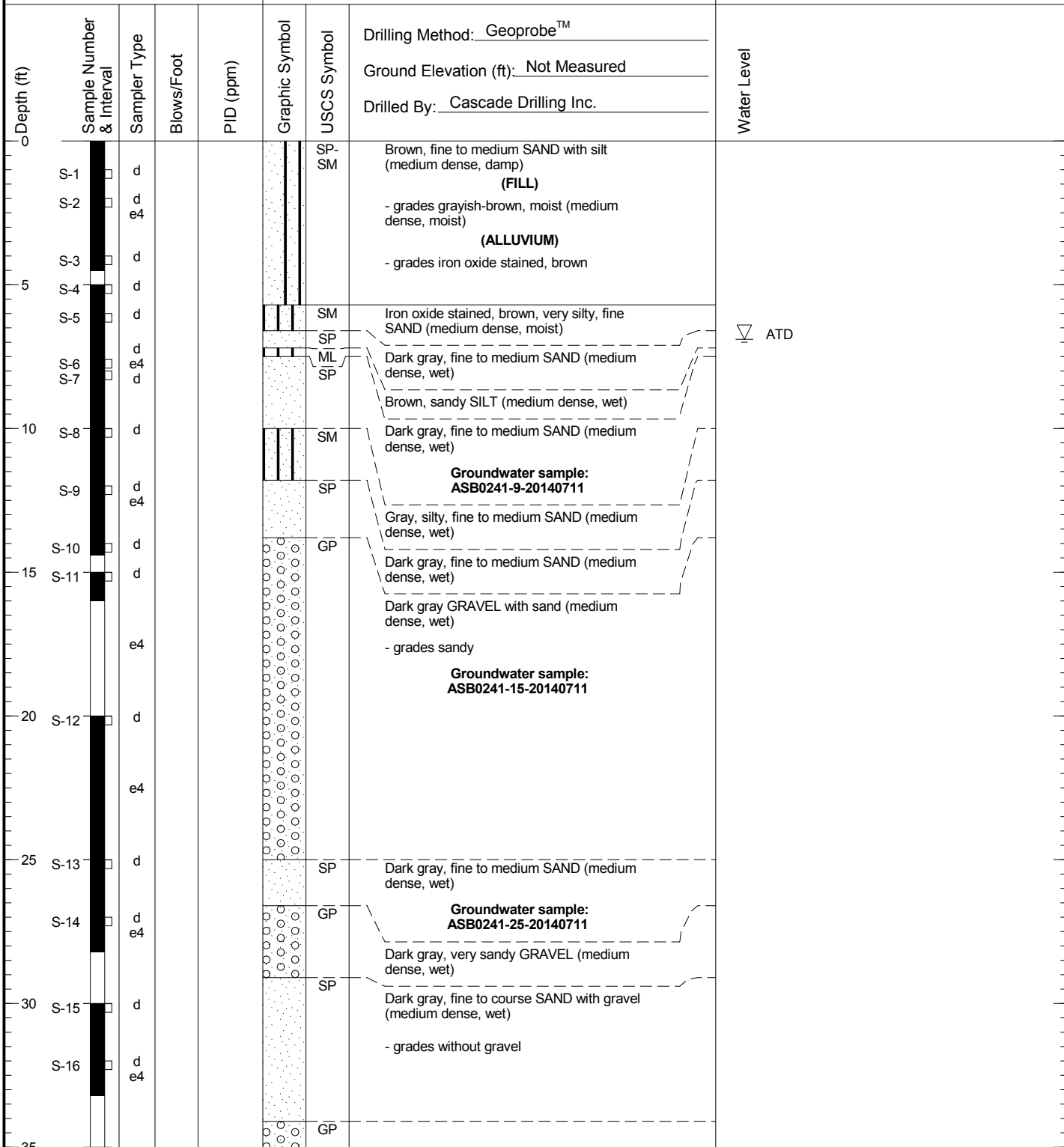
Figure
B-121

ASB0241

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-8

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

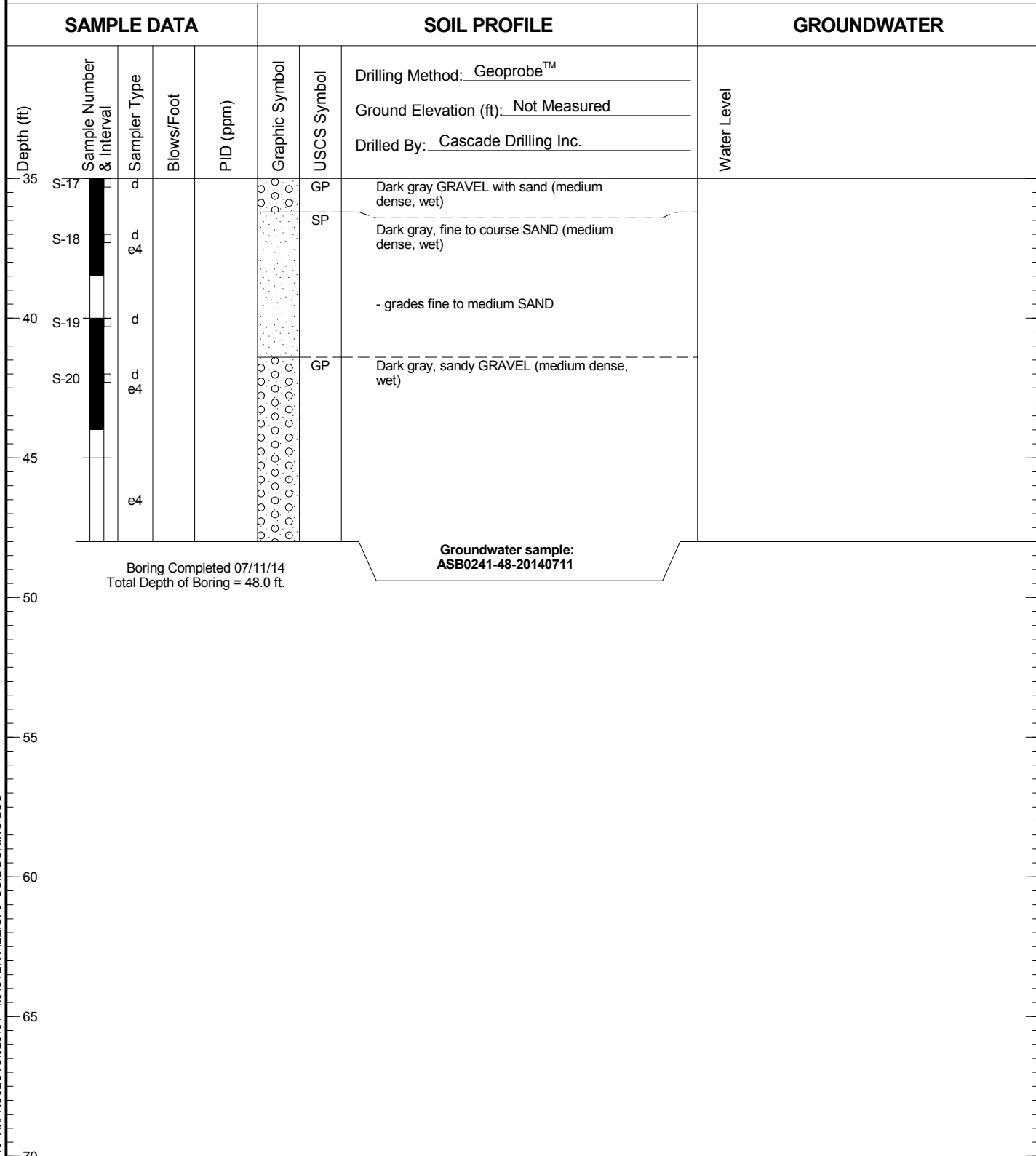


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Log of Boring ASB0241

Figure
B-122
(1 of 2)

ASB0241

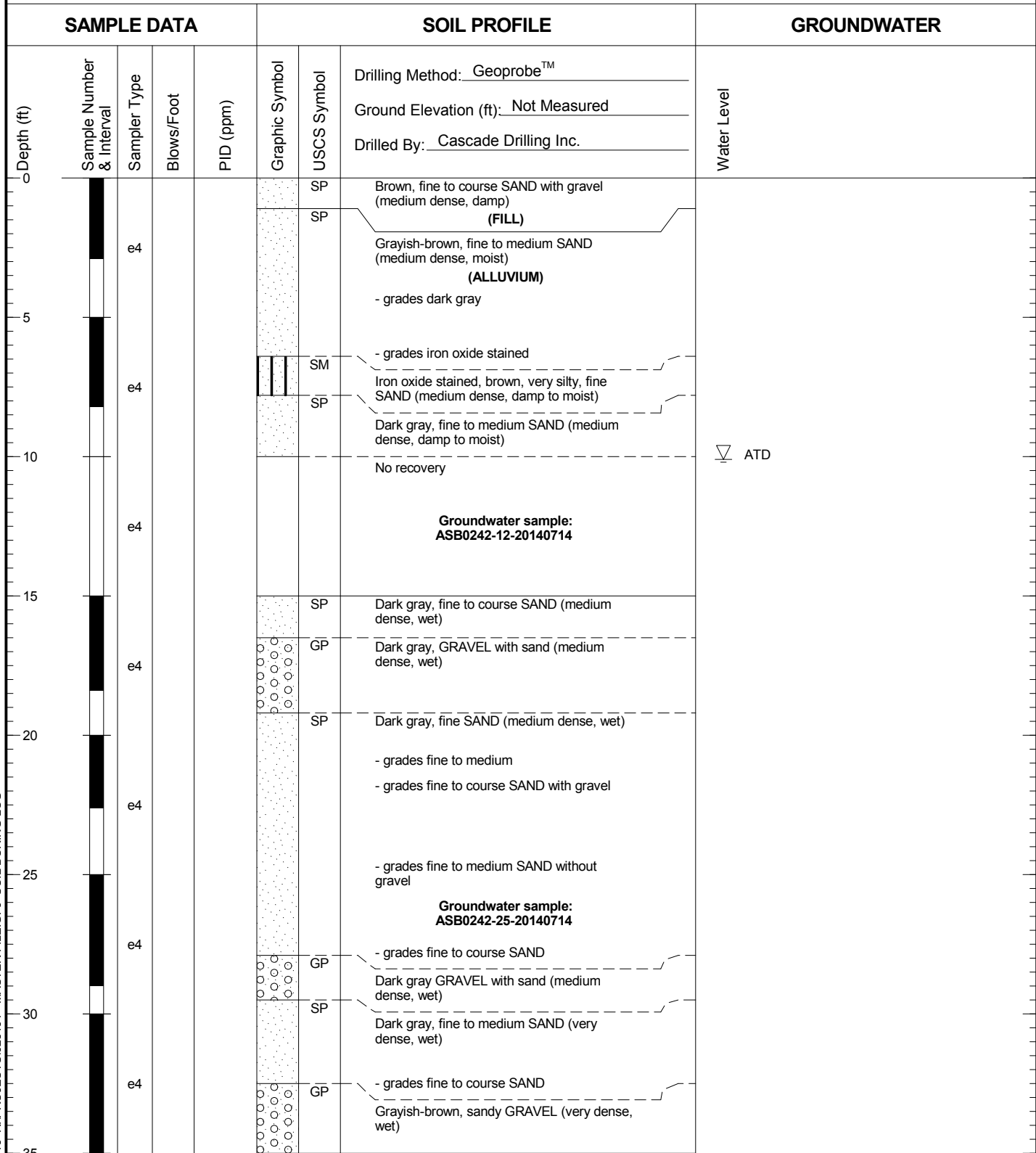


025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-8



ASB0242



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-13

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0242

Figure
B-123
(1 of 2)

ASB0242

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Ground Elevation (ft): <u>Not Measured</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
35										
40										
45		4								
50	Boring Completed 07/14/14 Total Depth of Boring = 48.0 ft.						Groundwater sample: ASB0242-48-20140714			
55										
60										
65										
70										

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-13

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0242

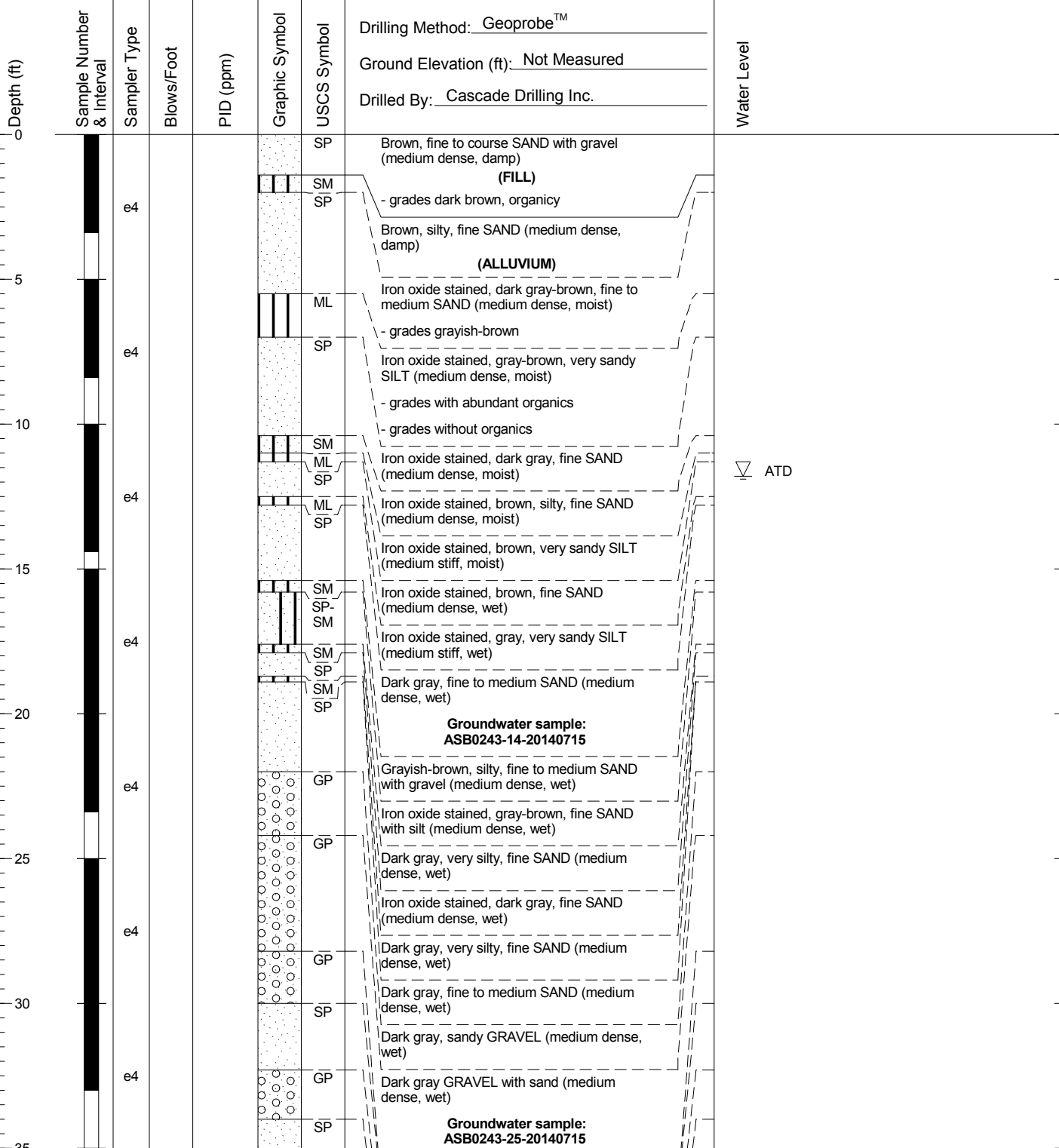
Figure
B-123
(2 of 2)

ASB0243

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-14

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

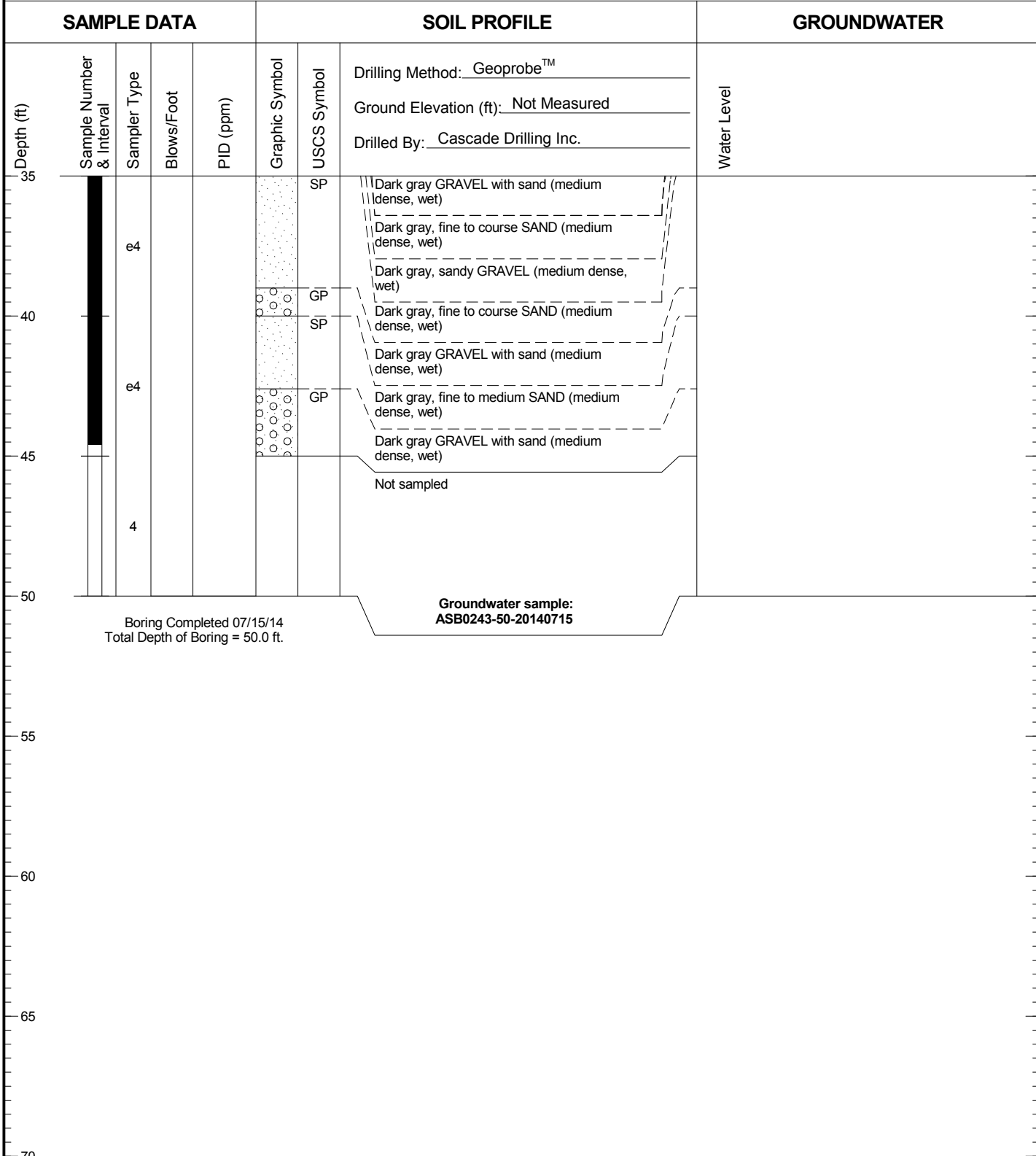


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Log of Boring ASB0243

Figure
B-124
(1 of 2)

ASB0243



025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-14

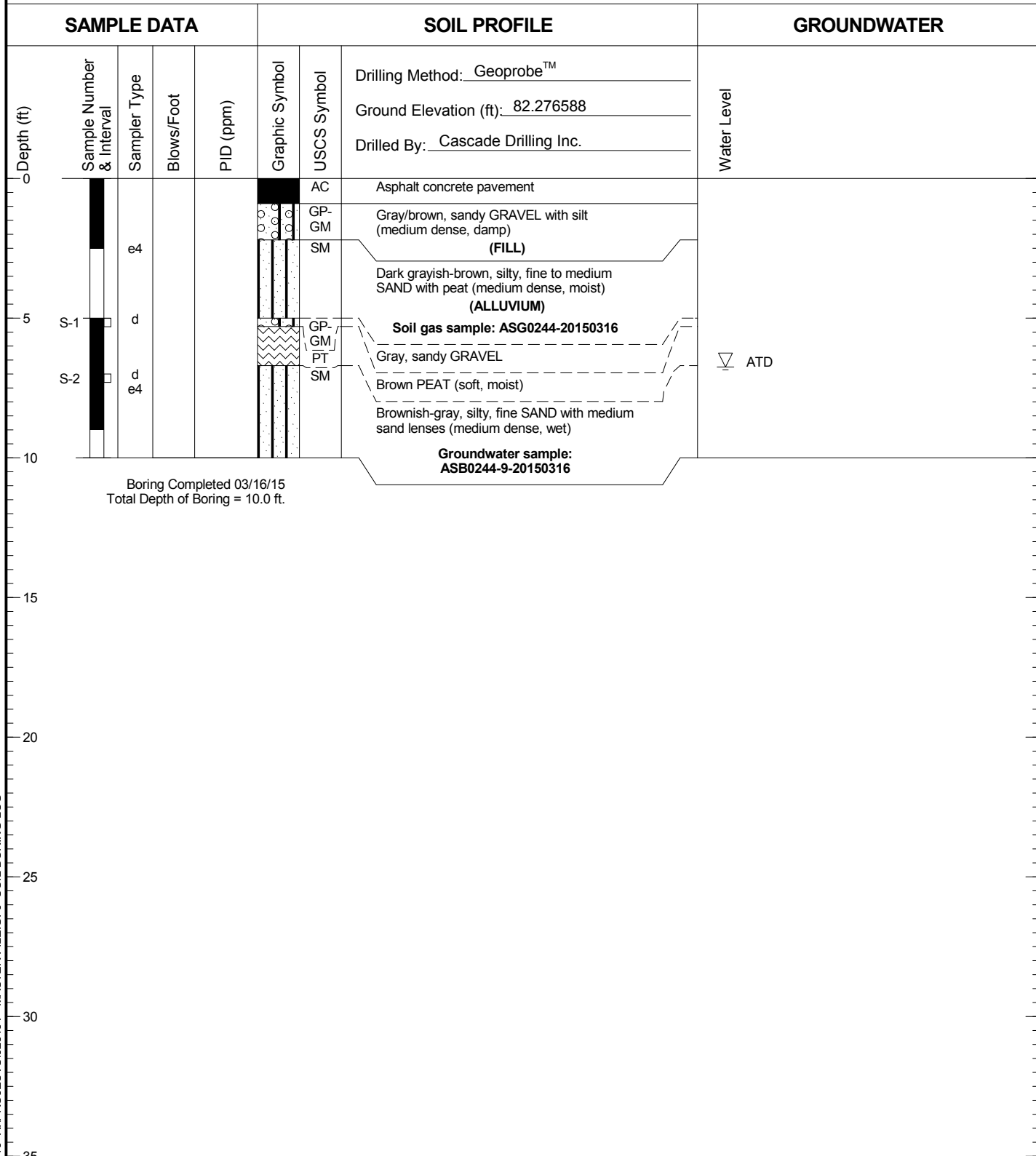


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Investigation
Auburn, Washington

Log of Boring ASB0243

Figure
B-124
(2 of 2)

ASB0244



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-1

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0244

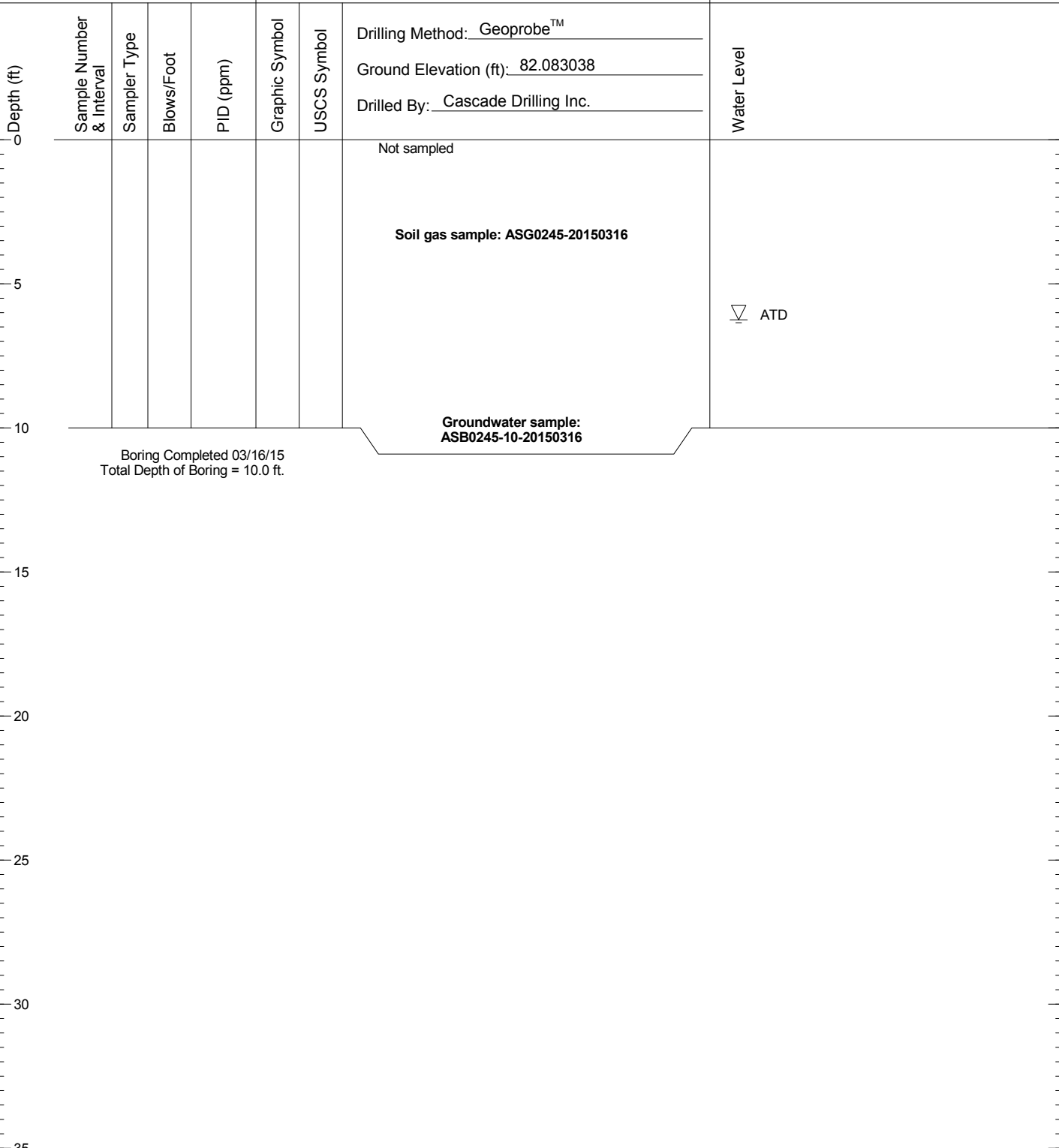
Figure
B-125

ASB0245

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-2

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0245

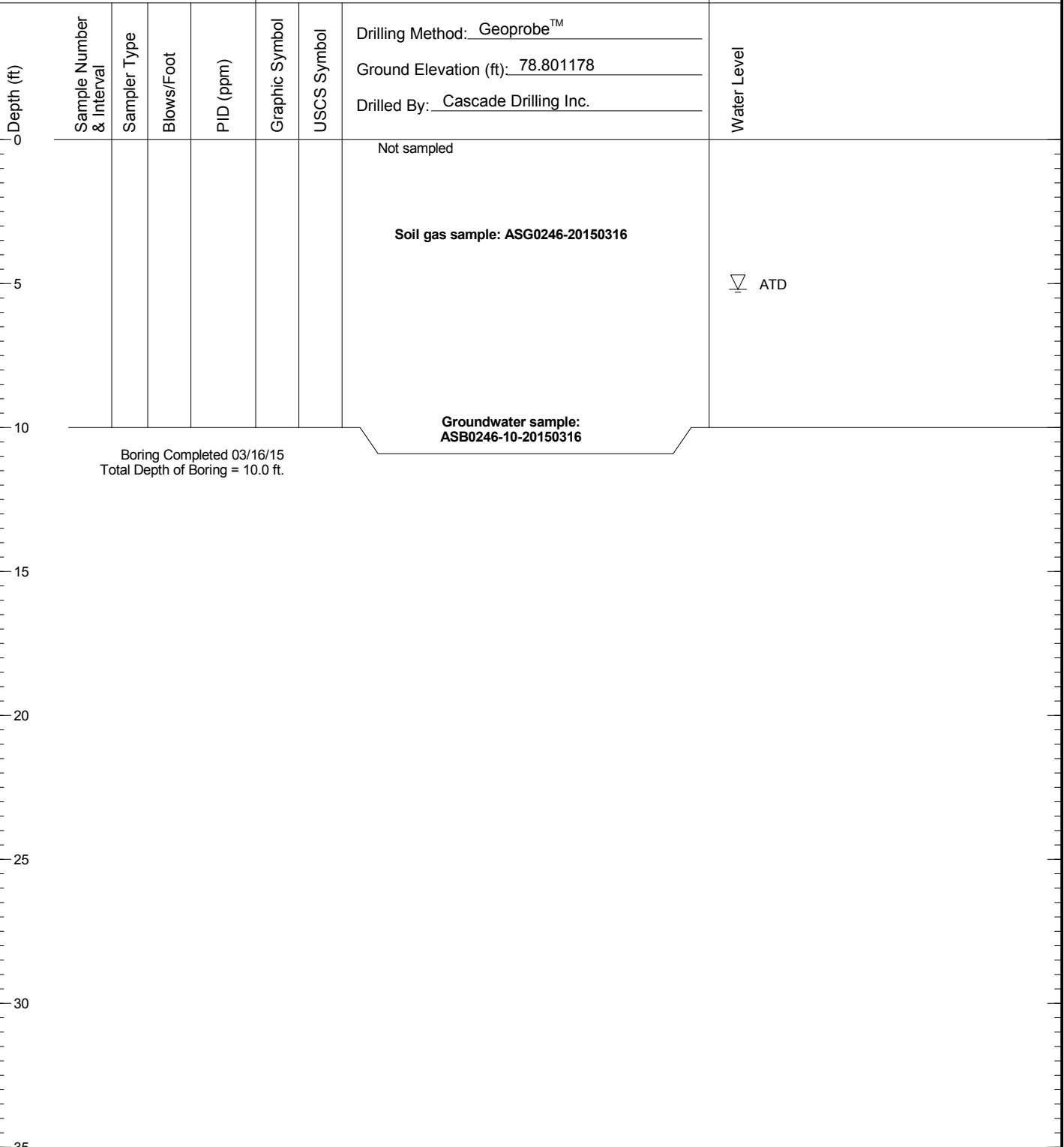
Figure
B-126

ASB0246

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-4

025164. 5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



Boeing Auburn Remedial
Investigation
Auburn, Washington

Log of Boring ASB0246

Figure
B-127

ASB0247

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile	Groundwater
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>80.880806</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 10							Not sampled	
5							Soil gas sample: ASG0247-20150317	▽ ATD
10							Groundwater sample: ASB0247-10-2015-0317	
10 - 10.0	Boring Completed 03/17/15 Total Depth of Boring = 10.0 ft.							
15								
20								
25								
30								
35								

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-3

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0247

Figure
B-128

ASB0248

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Groundwater Data
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>78.762901</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
5							Not sampled	
							Soil gas sample: ASG0248-20150317	
							Groundwater sample: ASB0248-7-20150317	▽ ATD
10								

Boring Completed 03/17/15
Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-5



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Investigation
Auburn, Washington

Log of Boring ASB0248

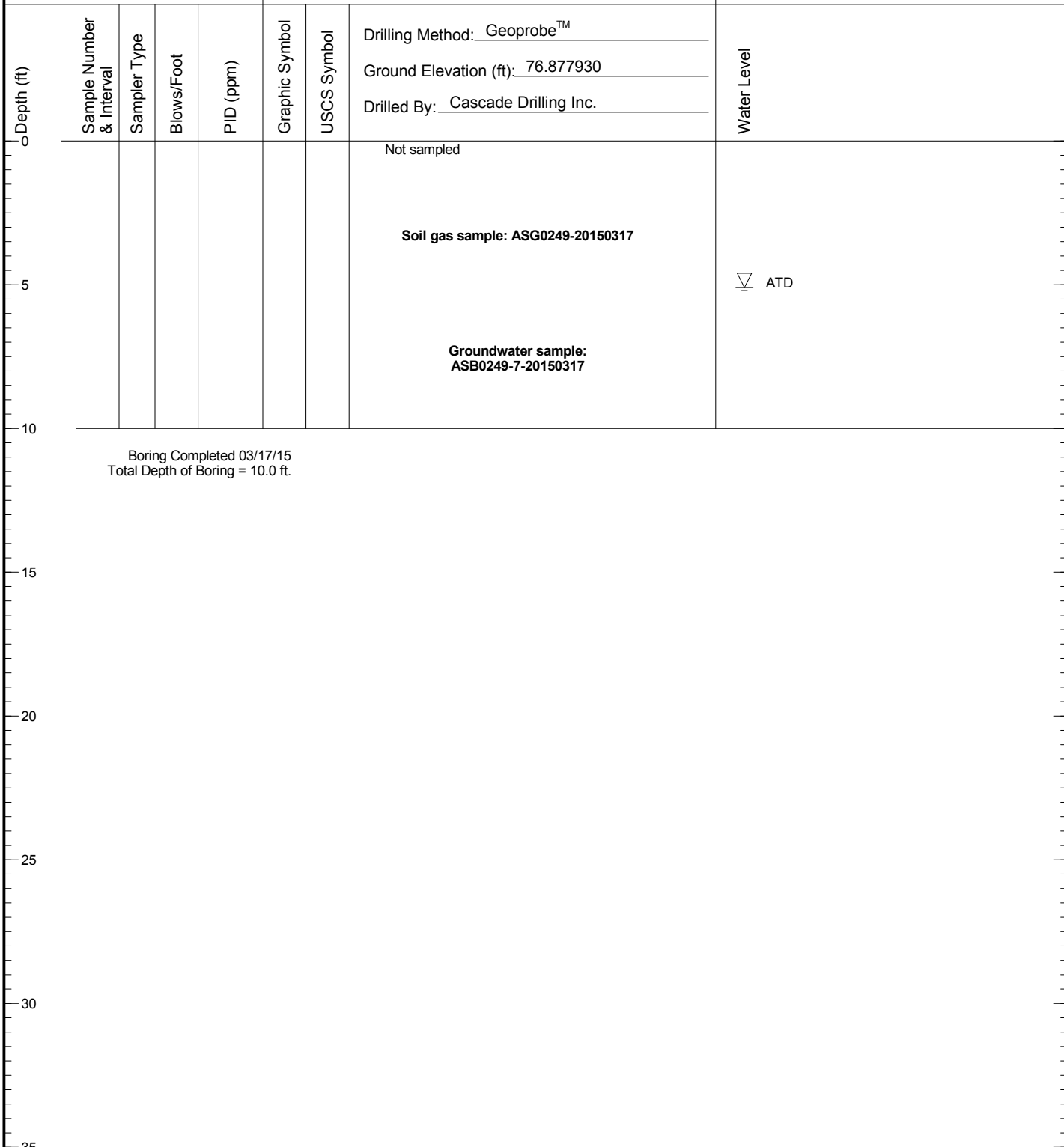
Figure
B-129

ASB0249

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



Boring Completed 03/17/15
 Total Depth of Boring = 10.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-15

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0249

Figure
 B-130

ASB0250

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>79.363335</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 5							Not sampled	
5 - 10							Soil gas sample: ASG0250-20150317	▽ ATD
10 - 35							Groundwater sample: ASB0250-7-20150317	

Boring Completed 03/17/15
 Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-20



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Log of Boring ASB0250

Figure
 B-131

ASB0251

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>79.154030</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
5							Not sampled Soil gas sample: ASG0251-20150318	ATD
10							Groundwater sample: ASB0251-7-20150318	

Boring Completed 03/18/15
Total Depth of Boring = 10.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designaton P-19

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0251

Figure
B-132

ASB0251R

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>80.264915</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 10							Not sampled	
5							Soil gas sample: ASG0251R-20150426	▽ ATD
10							Groundwater sample: ASB0251R-10-20150426	
10 - 10.0	Boring Completed 04/26/15 Total Depth of Boring = 10.0 ft.							
15								
20								
25								
30								
35								

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-19

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG





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Log of Boring ASB0251R

Figure
B-133

ASB0251R2

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
	e4						 ATD
0					AC	Asphalt	
					GP-GM	Grey, sandy GRAVEL with silt (medium dense, damp) (FILL)	
5					SP	Dark grey, fine SAND (medium dense, damp) (ALLUVIUM) Soil gas sample: ASG0251R2-20150625 Not sampled Groundwater sample: ASB0251R2-8-20150625	
10							

Boring Completed 06/25/15
Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE\GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-19



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Log of Boring ASB0251R2

Figure
B-134

ASB0252

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>75.764519</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 10							Not sampled Soil gas sample: ASG0252-20150318 Groundwater sample: ASB0252-8-20150318	ATD

Boring Completed 03/18/15
 Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-17



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Log of Boring ASB0252


Figure
 B-135

ASB0253

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>76.786560</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
5							Not sampled Soil gas sample: ASG0253-20150318	 ATD
10							Groundwater sample: ASB0253-8-20150318	

Boring Completed 03/18/15
Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-16



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Log of Boring ASB0253

Figure
B-136

ASB0254

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>79.345413</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 10							Not sampled Soil gas sample: ASG0254-20150318 Groundwater sample: ASB0254-8-20150318	ATD

Boring Completed 03/18/15
 Total Depth of Boring = 10.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-18



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 Investigation
 Auburn, Washington

Log of Boring ASB0254

Figure
 B-137

ASB0255

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>80.14814</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 5							Not sampled	
5 - 10							Soil gas sample: ASG0255-20150426	
10 - 15							Groundwater sample: ASB0255-10-20150426	▽ ATD

Boring Completed 04/26/15
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-14

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Auburn, Washington

Log of Boring ASB0255

Figure
B-138

ASB0256

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>80.166824</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 15							Not sampled Soil gas sample: ASG0256-20150426 Groundwater sample: ASB0256-12-20150427	ATD

Boring Completed 04/27/15
 Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-13

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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 Investigation
 Auburn, Washington

Log of Boring ASB0256

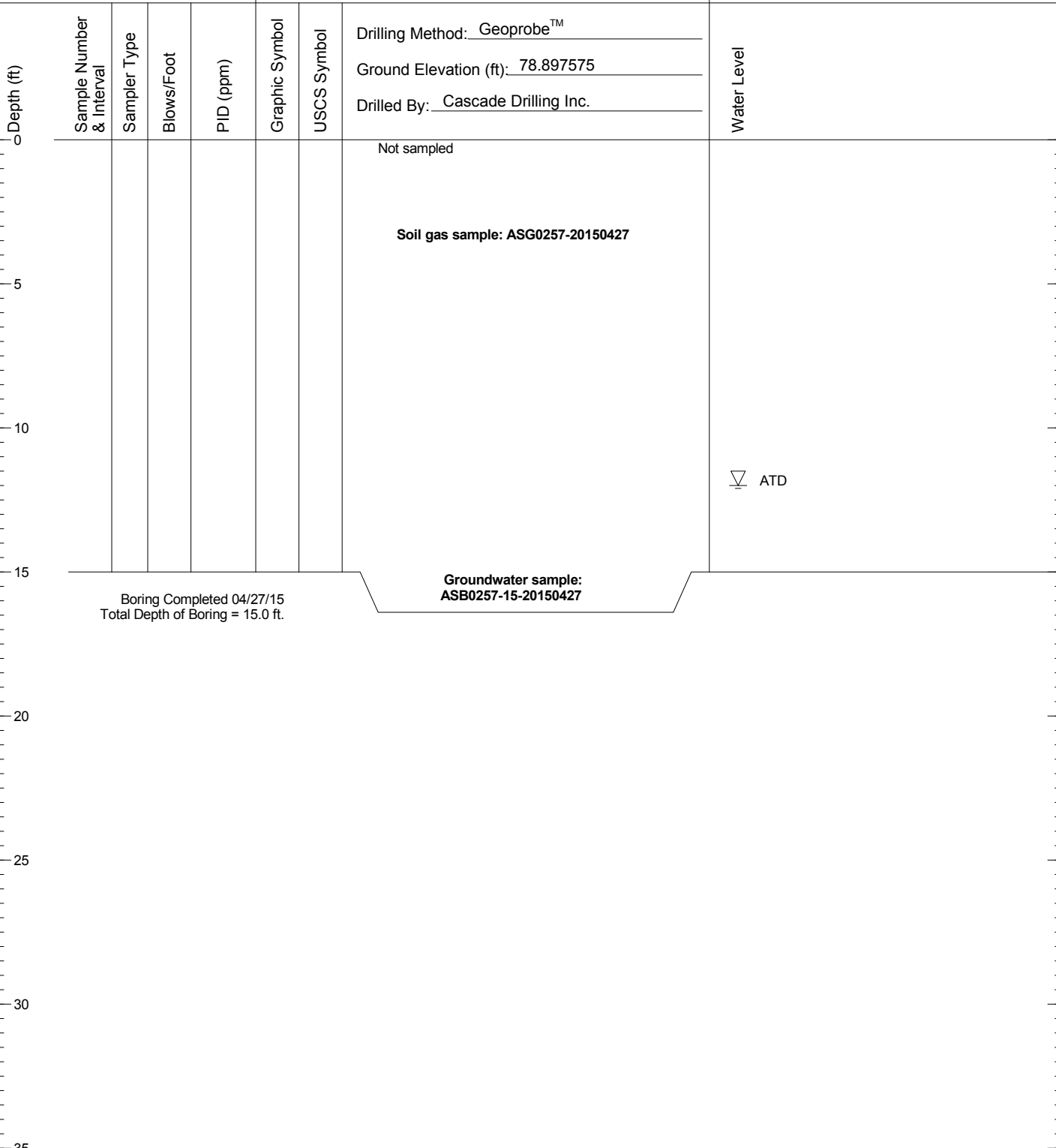
Figure
 B-139

ASB0257

SAMPLE DATA

SOIL PROFILE

GROUNDWATER



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-12

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

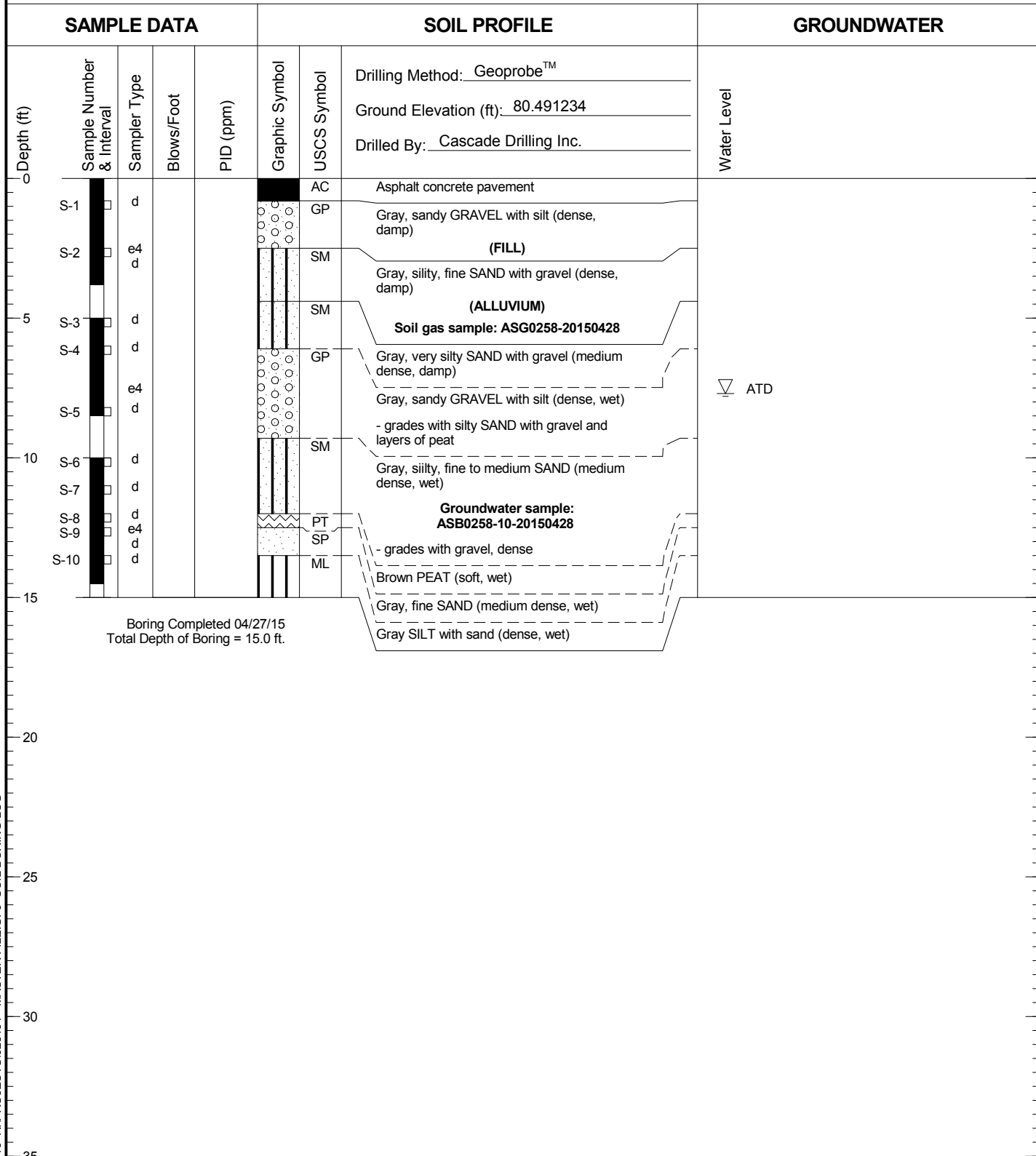


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Auburn, Washington

Log of Boring ASB0257

Figure
B-141

ASB0258



- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-11

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0258

Figure
B-142

ASB0259

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Ground Elevation (ft): <u>78.990189</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0										
5							Not sampled			
10							Soil gas sample: ASG0259-20150428			▽ ATD
15							Groundwater sample: ASB0259-10-20150428			

Boring Completed 04/28/15
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-10

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Investigation
Auburn, Washington

Log of Boring ASB0259

Figure
B-143

ASB0260

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Ground Elevation (ft): <u>79.117012</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0										
5							Not sampled			▽ ATD
10							Soil gas sample: ASG0260-20150428			
15							Groundwater sample: ASB0260-8-20150428			

Boring Completed 04/28/15
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-9

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0260

Figure
B-144

ASB0261

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile Data	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>80.506592</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 5							Not sampled	
5 - 10							Soil gas sample: ASG0261-20150428	▽ ATD
10 - 15							Groundwater sample: ASB0261-10-20150428	

Boring Completed 04/28/15
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-8

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG





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Log of Boring ASB0261

Figure
B-145

ASB0261R

SAMPLE DATA				SOIL PROFILE			GROUNDWATER
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Water Level
	e4				 AC SP SM	Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>80.506592</u> Drilled By: <u>Cascade Drilling Inc.</u>	 ATD
0					Asphalt		
5					Grey, gravelly, fine SAND with silt (medium dense, damp) (FILL)		
10					Soil gas sample: ASG0261R-20150626		
15					Groundwater sample: ASB0261R-15-20150626		

Boring Completed 06/26/15
Total Depth of Boring = 15.0 ft.

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-8



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Auburn, Washington

Log of Boring ASB0261R

Figure
B-146

ASB0262

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>81.504982</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 5							Not sampled	
5 - 10							Soil gas sample: ASG0262-20150429	▽ ATD
10 - 15							Groundwater sample: ASB0262-10-20150429	

Boring Completed 04/29/15
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-7

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0262

Figure
B-147

ASB0263

SAMPLE DATA

SOIL PROFILE

GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Soil Profile	Water Level
0							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>81.579483</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level
0 - 15							Not sampled Soil gas sample: ASG0263-20150429 ASB0263-10-20150429	∇ ATD

Boring Completed 04/29/15
Total Depth of Boring = 15.0 ft.

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
 4. Work plan designation P-6

025164_5/6/16 R:\PROJECTS\025164 - MASTER FILE.GPJ SOIL BORING LOG



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Log of Boring ASB0263

Figure
B-148