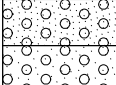
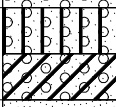
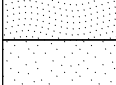
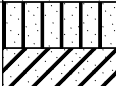


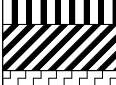
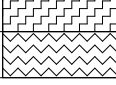




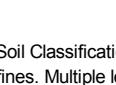





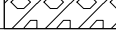
# Monitoring Well Logs

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## **Current Wells**

## Soil Classification System

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

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

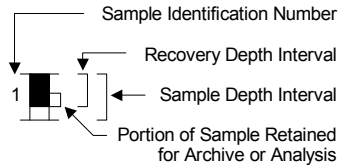
Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.  
 Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.  
 > 15% and ≤ 30% - "gravelly," "sandy," "silty," etc.  
 Additional Constituents: > 5% and ≤ 15% - "with gravel," "with sand," "with silt," etc.  
 ≤ 5% - "trace gravel," "trace sand," "trace silt," etc., or not noted.

## Drilling and Sampling Key

### SAMPLER TYPE

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	Other - See text if applicable
1	300-lb Hammer, 30-inch Drop
2	140-lb Hammer, 30-inch Drop
3	Pushed
4	Rotosonic
5	Air Rotary (Rock)
6	Wash Rotary (Rock)
7	Other - See text if applicable

### SAMPLE NUMBER & INTERVAL



## Field and Lab Test Data

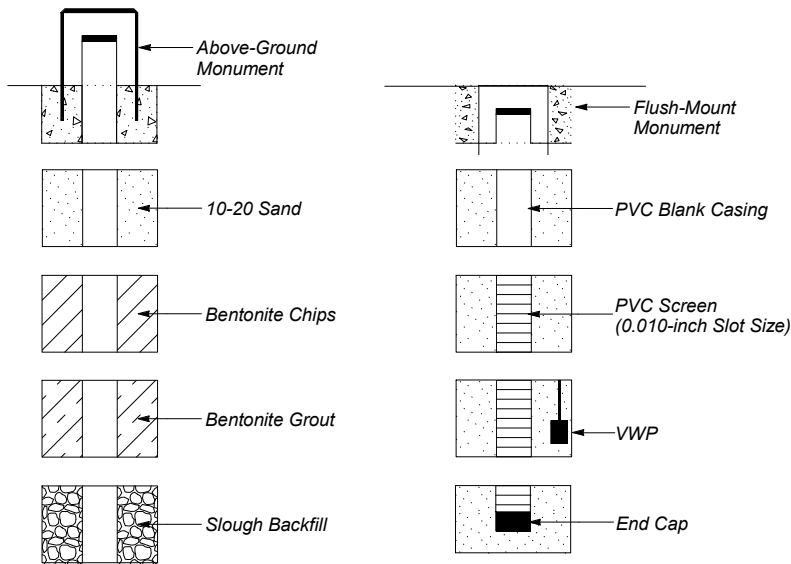
Code	Description
PP = 1.0	Pocket Penetrometer, tsf
TV = 0.5	Torvane, tsf
PID = 100	Photoionization Detector VOC screening, ppm
W = 10	Moisture Content, %
D = 120	Dry Density, pcf
-200 = 60	Material smaller than No. 200 sieve, %
GS	Grain Size - See separate figure for data
AL	Atterberg Limits - See separate figure for data
VST	Vane Shear Test
GT	Other Geotechnical Testing
CA	Chemical Analysis

## Groundwater

- ▽ Approximate water elevation at time of drilling (ATD).
- ▼ Approximate water elevation at other time(s). When multiple water levels are obtained other than ATD, only a representative range is shown. See text for additional information.

**Note:** Groundwater levels can fluctuate due to precipitation, seasonal conditions, and other factors.

## Well Log Graphics



# AGW001R

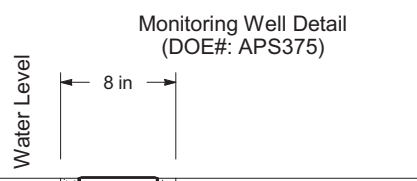
## SAMPLE DATA

## SOIL PROFILE

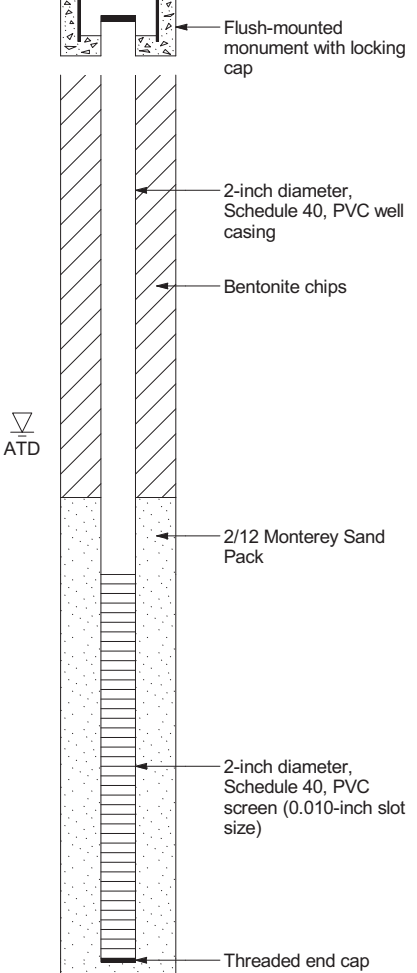
## GROUNDWATER

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>87.50</u> Drilled By: <u>Cascade Drilling Inc.</u>
--------------------------	--------------	------------	-----------	----------------	-------------	--



0	For lithology see well log for AGW001 (Decommissioned)					
5						
10						
15						
20						
25						



Boring Completed 04/09/07  
Total Depth of Boring = 25.5 ft.

Monitoring Well Completed 04/09/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 87.15 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: APS375

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW001R

Figure  
**C-2**

# AGW002R

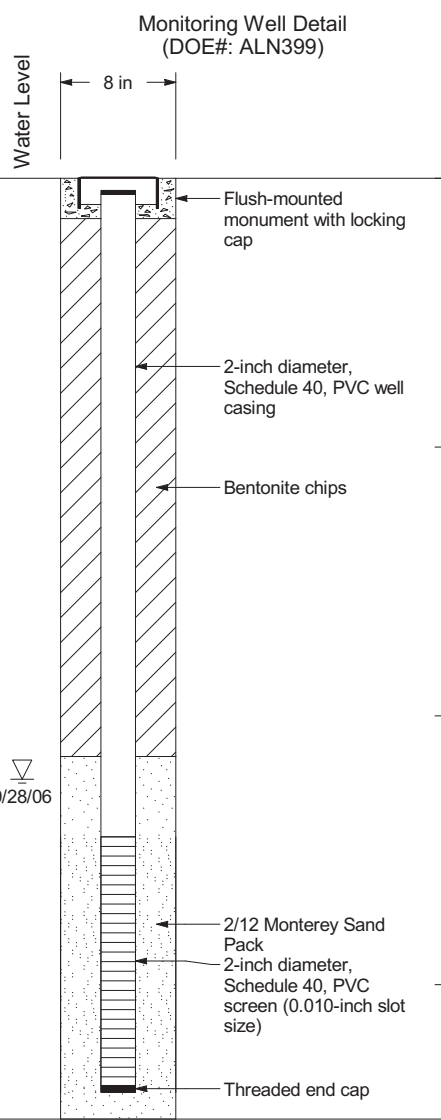
## SAMPLE DATA

## 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): _____ Drilled By: <u>Cascade Drilling Inc.</u>
--------------------------	--------------	------------	-----------	----------------	-------------	---



For lithology see well log for AGW002 (Decommissioned)

Boring Completed 09/28/06  
Total Depth of Boring = 35.0 ft.

Monitoring Well Completed 09/28/06  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 90.95 ft.  
Total Depth of Monitoring Well = 34.5 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.
  4. DOE Unique Well Number: ALN399

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW002R

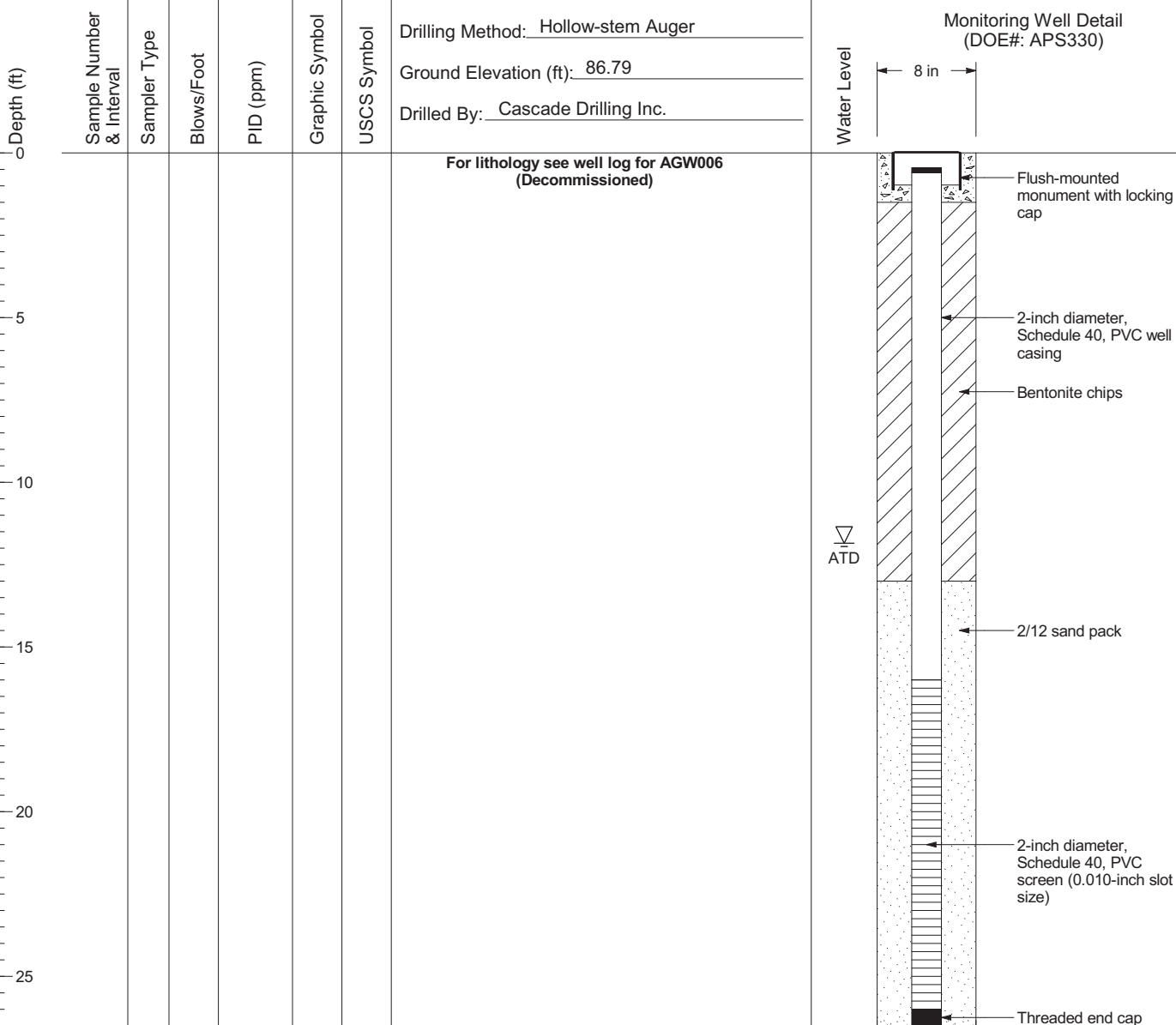
Figure  
**C-3**

# AGW006R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 03/19/07  
Total Depth of Boring = 26.5 ft.

Monitoring Well Completed 03/19/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.46 ft.  
Total Depth of Monitoring Well = 26.5 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.
  4. DOE Unique Well Number: APS330

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

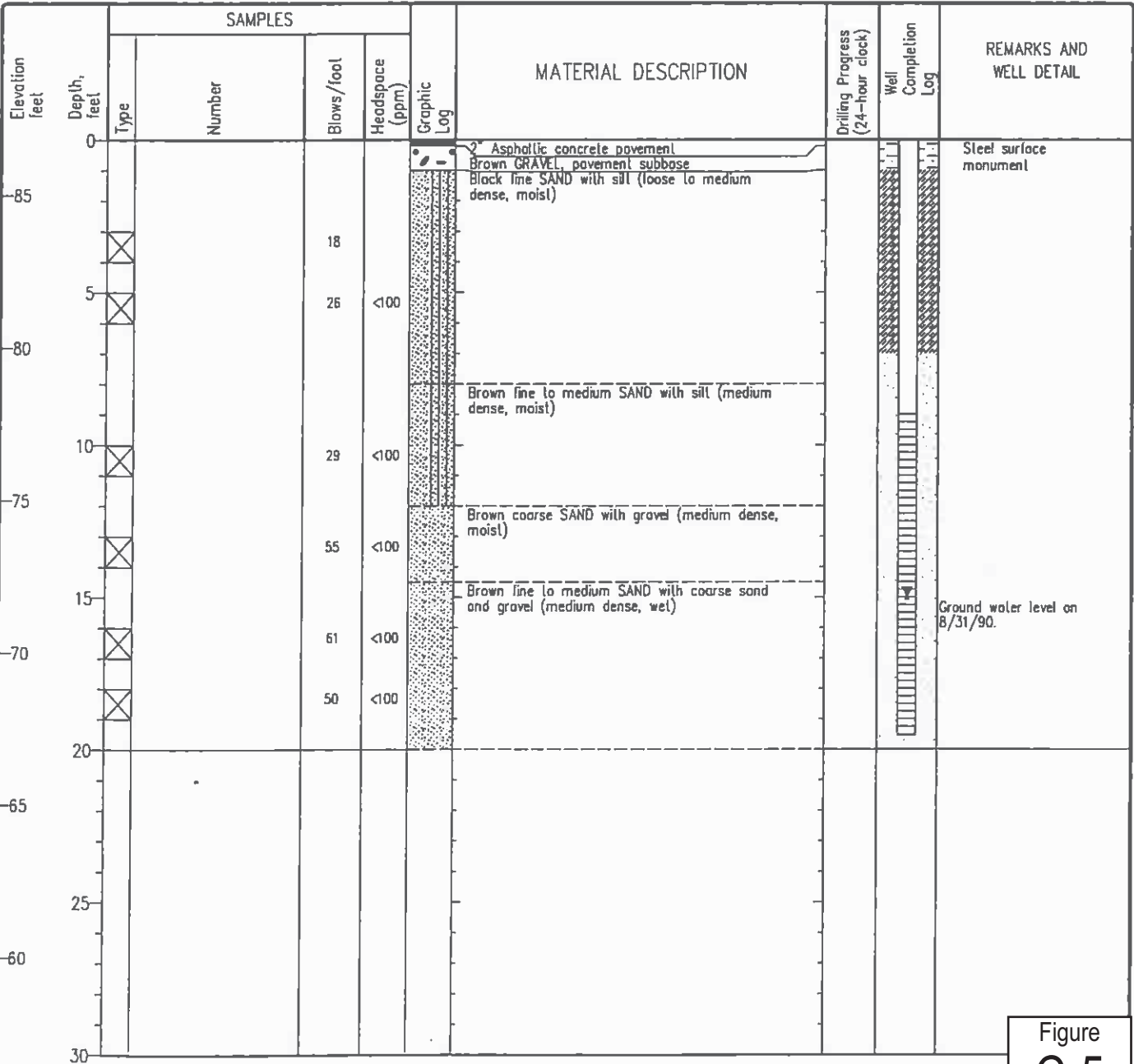


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW006R

Figure  
**C-4**

Date(s) Drilled: 8/22/90		Logged By:	Checked By:
Drilling Method:		Drill Bit Size/Type:	Total Depth Drilled (feet): 20.0
Drill Rig Type:		Drilling Contractor:	Hammer Weight/Drop (lbs/in.): 300lb/30"
Groundwater Level (feet): 15		Date Measured: 08/31/90	Approx. Surface Elevation (feet): 86.8
Diameter of Hole (inches):	Diameter of Well (inches): 4	Type of Well Casing: SCH 20 PVC	Screen Perforation: 0.020" Slotted SCH 20 PVC
Type of Sand Pack: Medium Sand Backfill		Type/Thickness of Seal(s): Bentonite	
Comments:			



Report ENV\_1a, Project File C:\PROGRAMS\GINTWA\PROJECTS\BOEING GPX, Data Template WC\_CORPLOGOT, Printed: 10/21/95

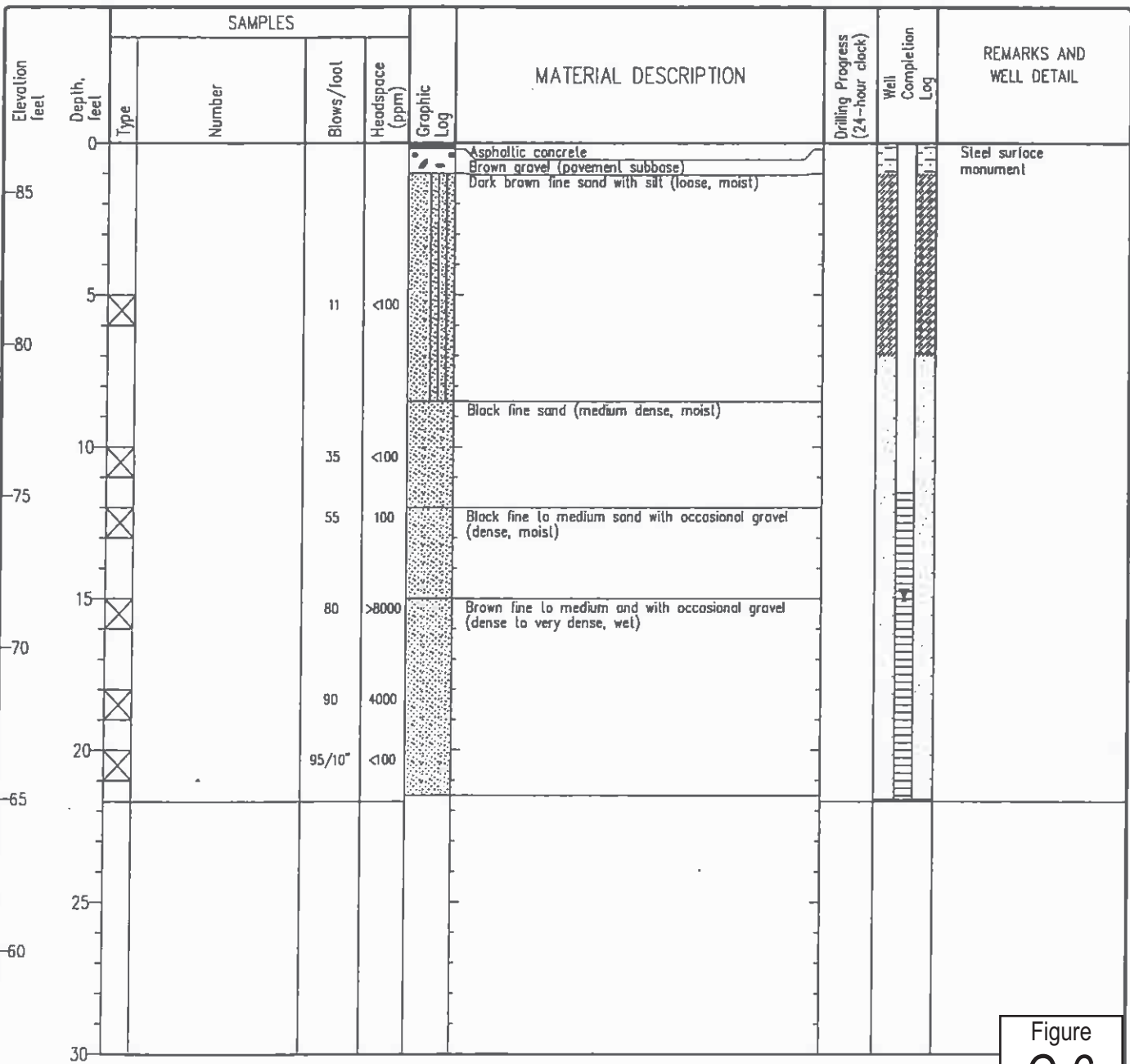
Figure  
**C-5**



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW010  
 Sheet 1 of 1

Date(s) Drilled	8/23/90	Logged By	Checked By
Drilling Method		Drill Bit Size/Type	Total Depth Drilled (feet) 21.7
Drill Rig Type		Drilling Contractor	Hammer Weight/Drop (lbs/in.) 300lb/30"
Groundwater Level (feet)	15	Date Measured	08/31/90
Diameter of Hole (inches)	Diameter of Well (inches) 4	Type of Well Casing	SCH 20 PVC
Type of Sand Pack	Medium Sand Backfill	Type/Thickness of Seal(s)	Bentonite
Approx. Surface Elevation (feet) 86.6			
Screen Perforation 0.020" Slotted SCH 20 PVC			
Comments			



Report: ENV\_1., Project File: C:\PROGRAMS\1\GINTM\PROJECTS\BOENING.CP4, Data Template: WC\_CORP1.DOT, Printed: 10/21/88

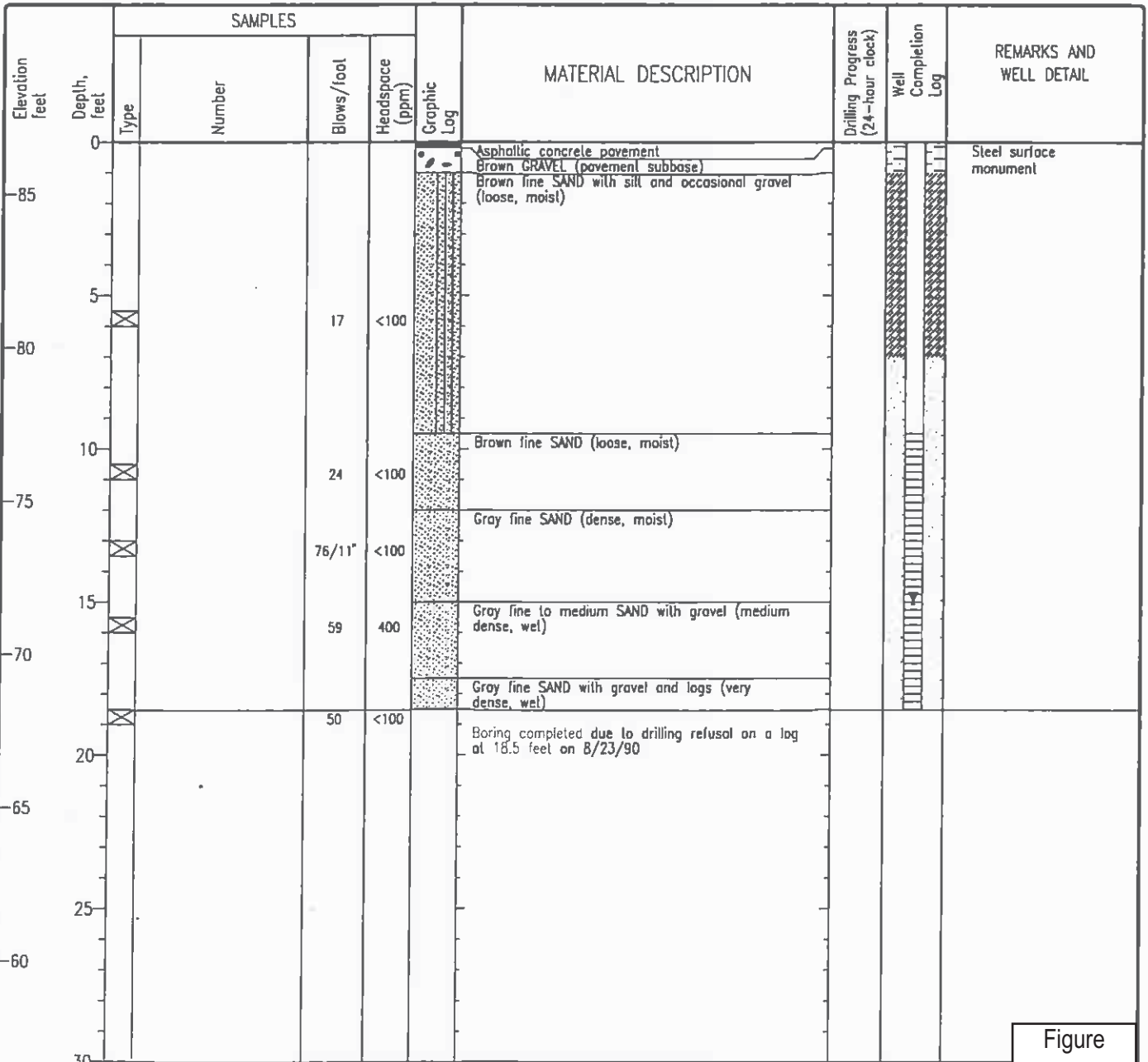
Figure C-6

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW011

Sheet 1 of 1

Date(s) Drilled	8/23/90		Logged By	Checked By
Drilling Method			Drill Bit Size/Type	Total Depth Drilled (feet) 18.5
Drill Rig Type			Drilling Contractor	Hammer Weight/Drop (lbs/in.) 300lb/30"
Groundwater Level (feet)	15		Date Measured 08/31/90	Approx. Surface Elevation (feet) 86.7
Diameter of Hole (inches)	Diameter of Well (inches)	4	Type of Well Casing SCH 20 PVC	Screen Perforation 0.020" Slotted SCH 20 PVC
Type of Sand Pack	Medium Sand Backfill		Type/Thickness of Seal(s)	Bentonite
Comments				



Report: E:\\_log Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOEING.GPJ; Data Template: WC\_CORP1.DOT Printed: 10/21/98

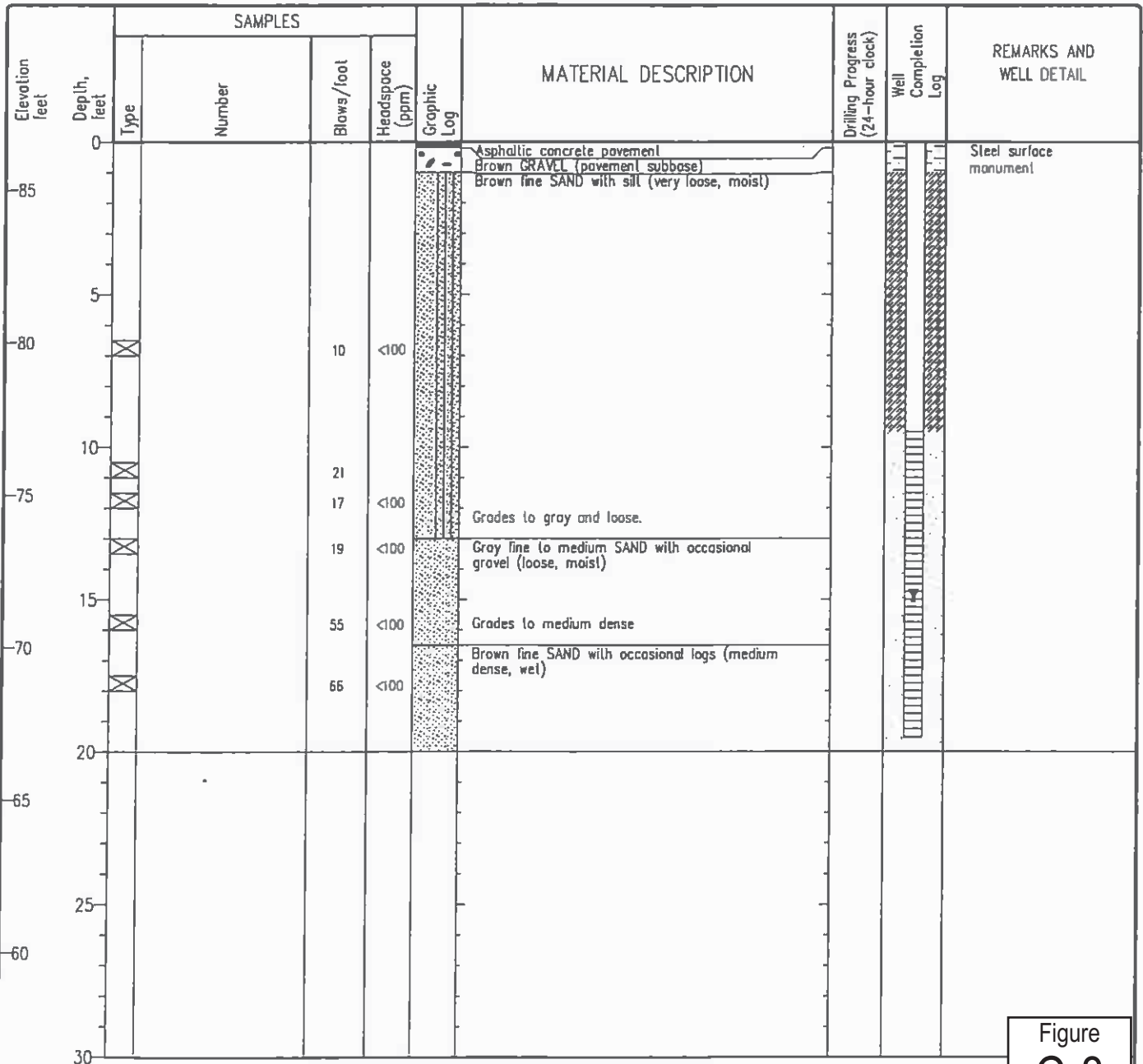
Figure C-7

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW012

Sheet 1 of 1

Date(s) Drilled	8/23/90		Logged By			Checked By		
Drilling Method			Drill Bit Size/Type			Total Depth Drilled (feet)	20.0	
Drill Rig Type			Drilling Contractor			Hammer Weight/Drop (lbs/in.)	300lb/30"	
Groundwater Level (feet)	15		Date Measured	08/31/90		Approx. Surface Elevation (feet)	86.6	
Diameter of Hole (inches)	Diameter of Well (inches)	4	Type of Well Casing	SCH 20 PVC		Screen Perforation	0.020" Slotted SCH 20 PVC	
Type of Sand Pack	Medium Sand Backfill		Type/Thickness of Seal(s)	Bentonite				
Comments								



Report: ENV\_... Project File: C:\PROGRAMS\GINTW\PROJECTS\BOING CP.1 Data Template WC\_CORP1.GDT Printed: 10/21/98

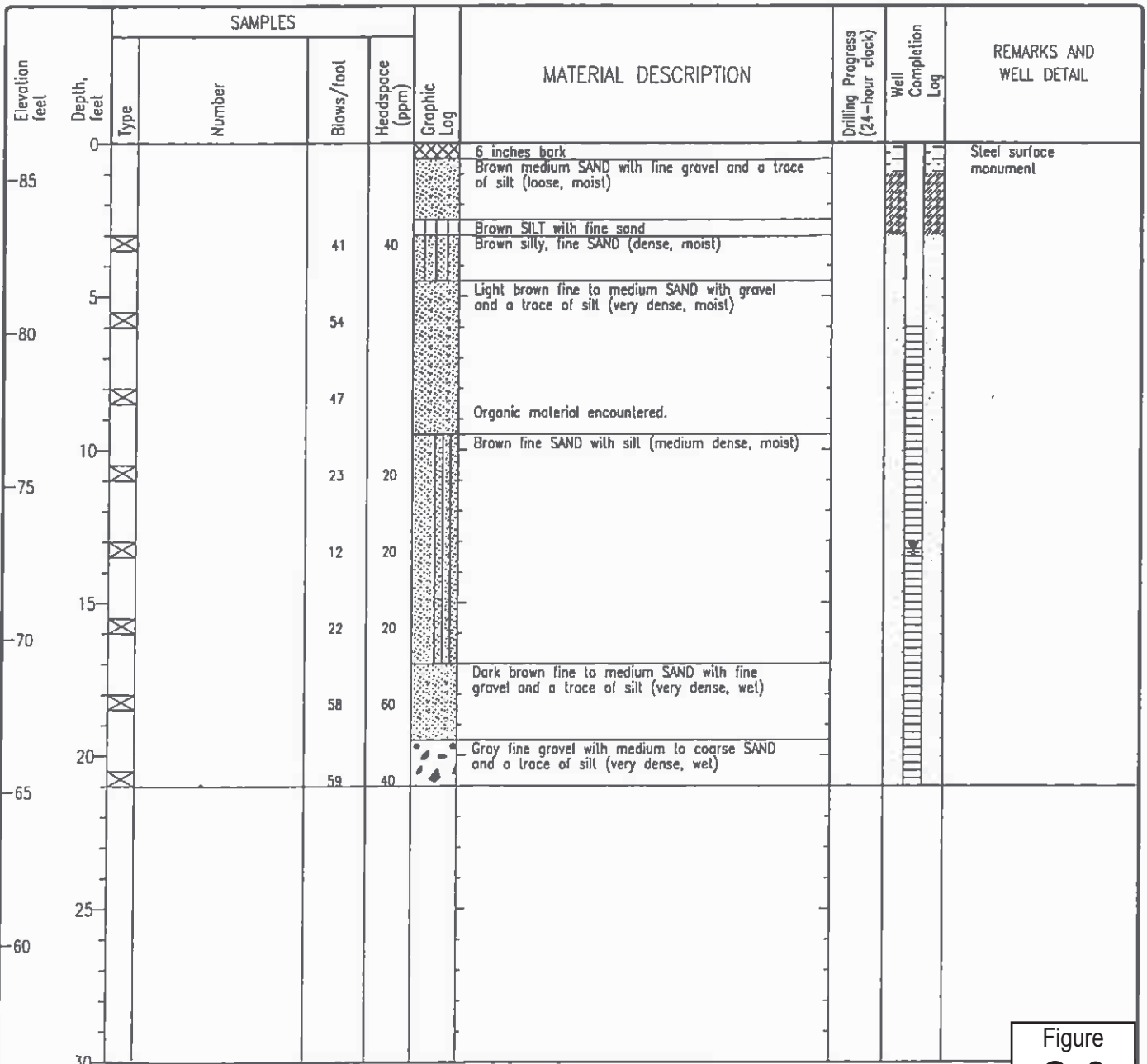
Figure C-8

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW013

Sheet 1 of 1

Date(s) Drilled	7/31/91	Logged By		Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor		Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	13.37	Date Measured	8/8/91	Approx. Surface Elevation (feet)	86.2
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Fine Sand Backfill	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.01" Slotted SCH 40 PVC
Comments					



Report: ENW\_1.r Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOILING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

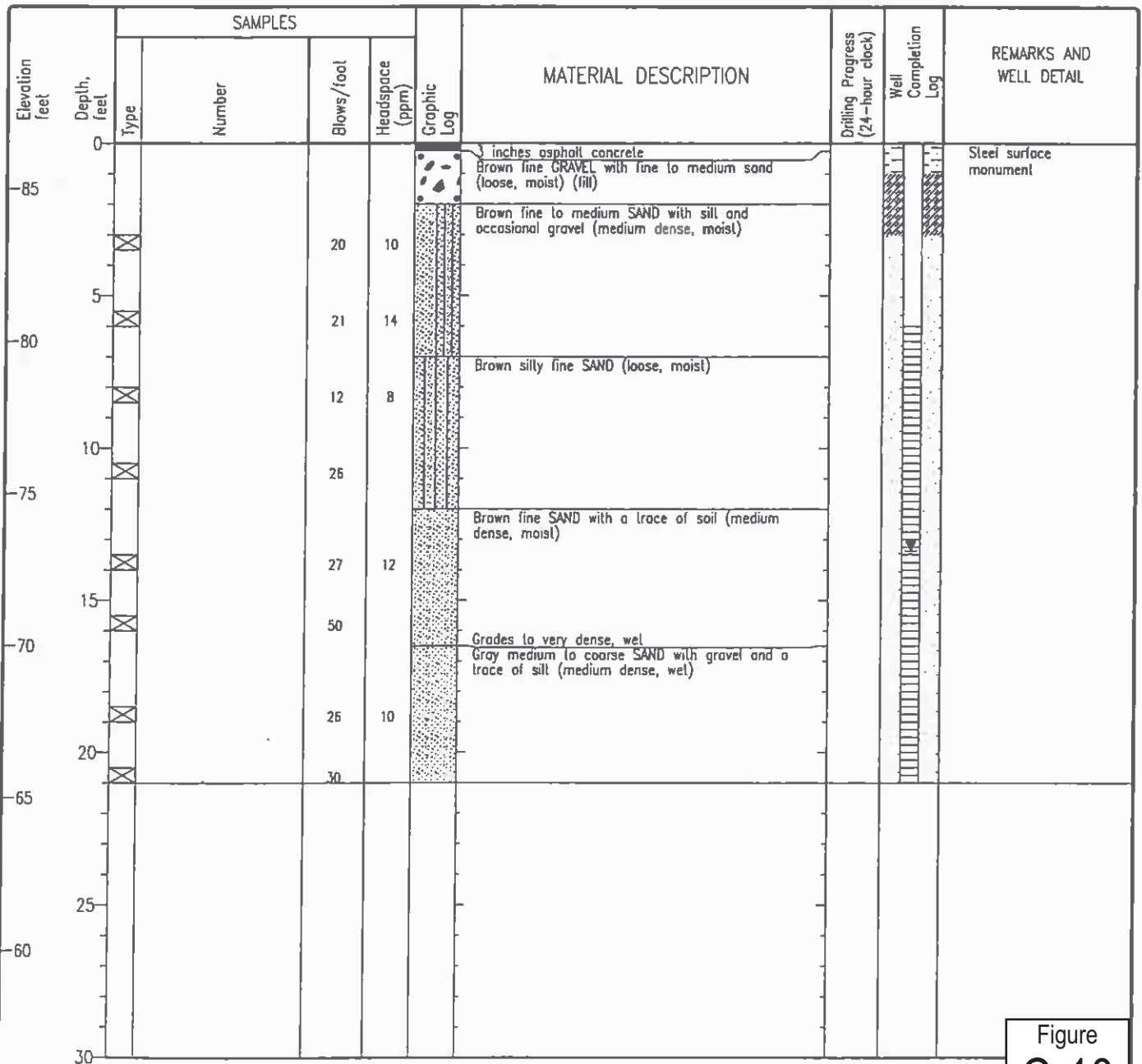
Figure C-9

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW014

Sheet 1 of 1

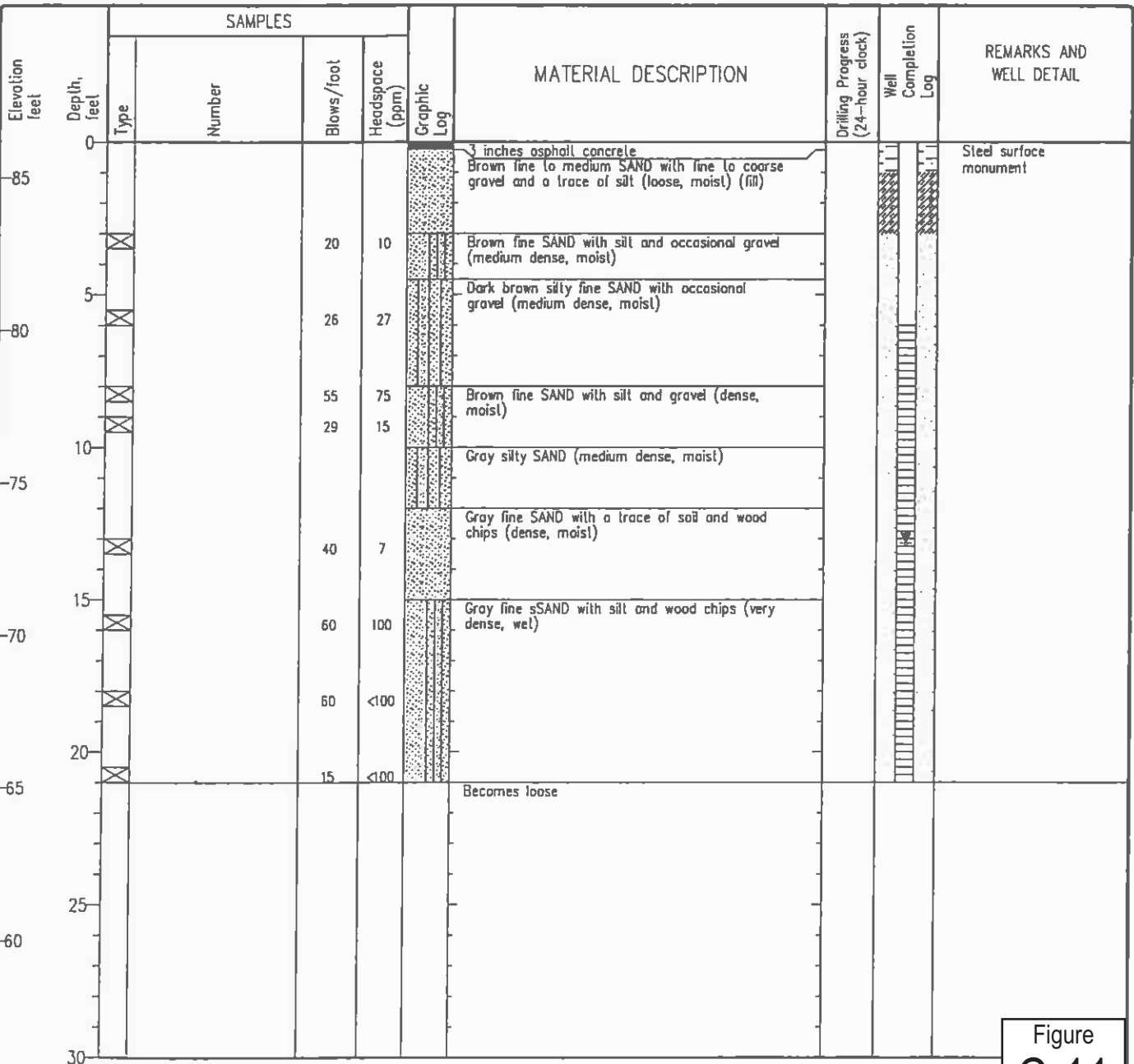
Date(s) Drilled	7/31/91	Logged By	Checked By
Drilling Method		Drill Bit Size/Type	Total Depth Drilled (feet) 21.0
Drill Rig Type		Drilling Contractor	Hammer Weight/Drop (lbs/in.) 140lb/30"
Groundwater Level (feet)	13.38	Date Measured	8/8/91
Diameter of Hole (inches)	Diameter of Well (inches) 4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Fine Sand Backfill	Type/Thickness of Seal(s)	Bentonite
Approx. Surface Elevation (feet) 86.5			
Screen Perforation 0.01" Slotted SCH 40 PVC			
Comments			



Report: ENV\_177 Project File: C:\PROGRAM-1\GRWV\_PROJECTS\BOILING DP-1 Data Template\MC\_CORP1.GDT Printed: 10/21/98

Figure C-10

Date(s) Drilled: 8/2/91		Logged By:		Checked By:	
Drilling Method:		Drill Bit Size/Type:		Total Depth Drilled (feet): 21.0	
Drill Rig Type:		Drilling Contractor:		Hammer Weight/Drop (lbs/in): 140lb/30"	
Groundwater Level (feet): 13.15		Date Measured: 8/8/91		Approx. Surface Elevation (feet): 86.2	
Diameter of Hole (inches):	Diameter of Well (inches): 4	Type of Well Casing: SCH 40 PVC		Screen Perforation: 0.01" Slotted SCH 40 PVC	
Type of Sand Pack: Fine Sand Backfill		Type/Thickness of Seal(s): Bentonite			
Comments:					



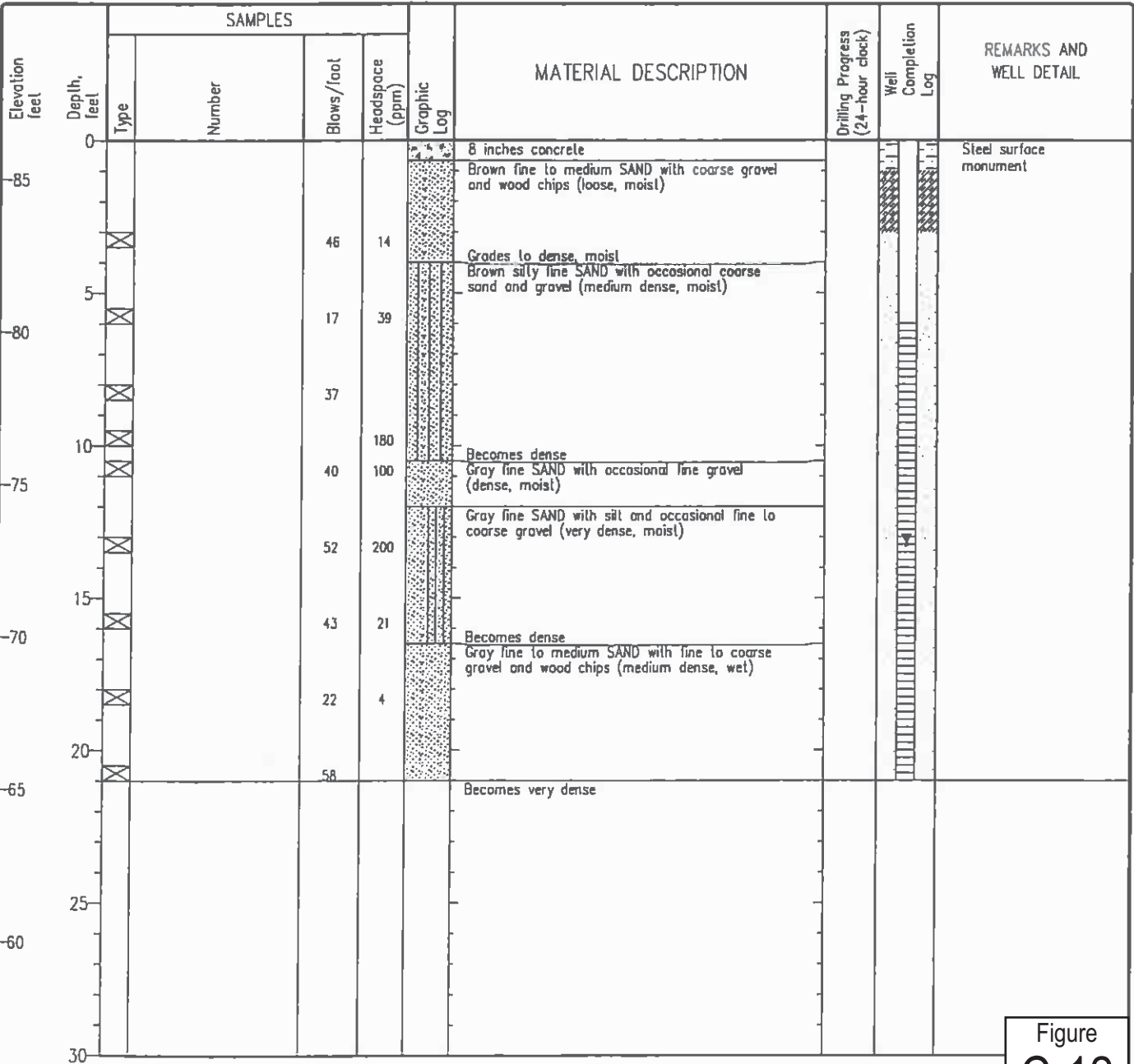
Report: ENV\_1A, Project File: C:\PROGRAMS\1\GINTW\PROJECTS\BOEING CPJ, Data Template: MC\_CORP1.GDT, Printed: 10/21/88

Figure  
**C-11**



Project: Boeing Auburn	Log of Boring AGW016
Project Location: Auburn, Washington	Sheet 1 of 1
Project Number: 974009NB	

Date(s) Drilled	8/2/91	Logged By	Checked By
Drilling Method		Drill Bit Size/Type	Total Depth Drilled (feet) 21.0
Drill Rig Type		Drilling Contractor	Hammer Weight/Drop (lbs/in.) 140lb/30"
Groundwater Level (feet)	13.23	Date Measured	8/8/91
Diameter of Hole (inches)	Diameter of Well (inches) 4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Fine Sand Backfill	Type/Thickness of Seal(s)	Bentonite
Approx. Surface Elevation (feet) 86.3			
Screen Perforation 0.01" Slotted SCH 40 PVC			
Comments			

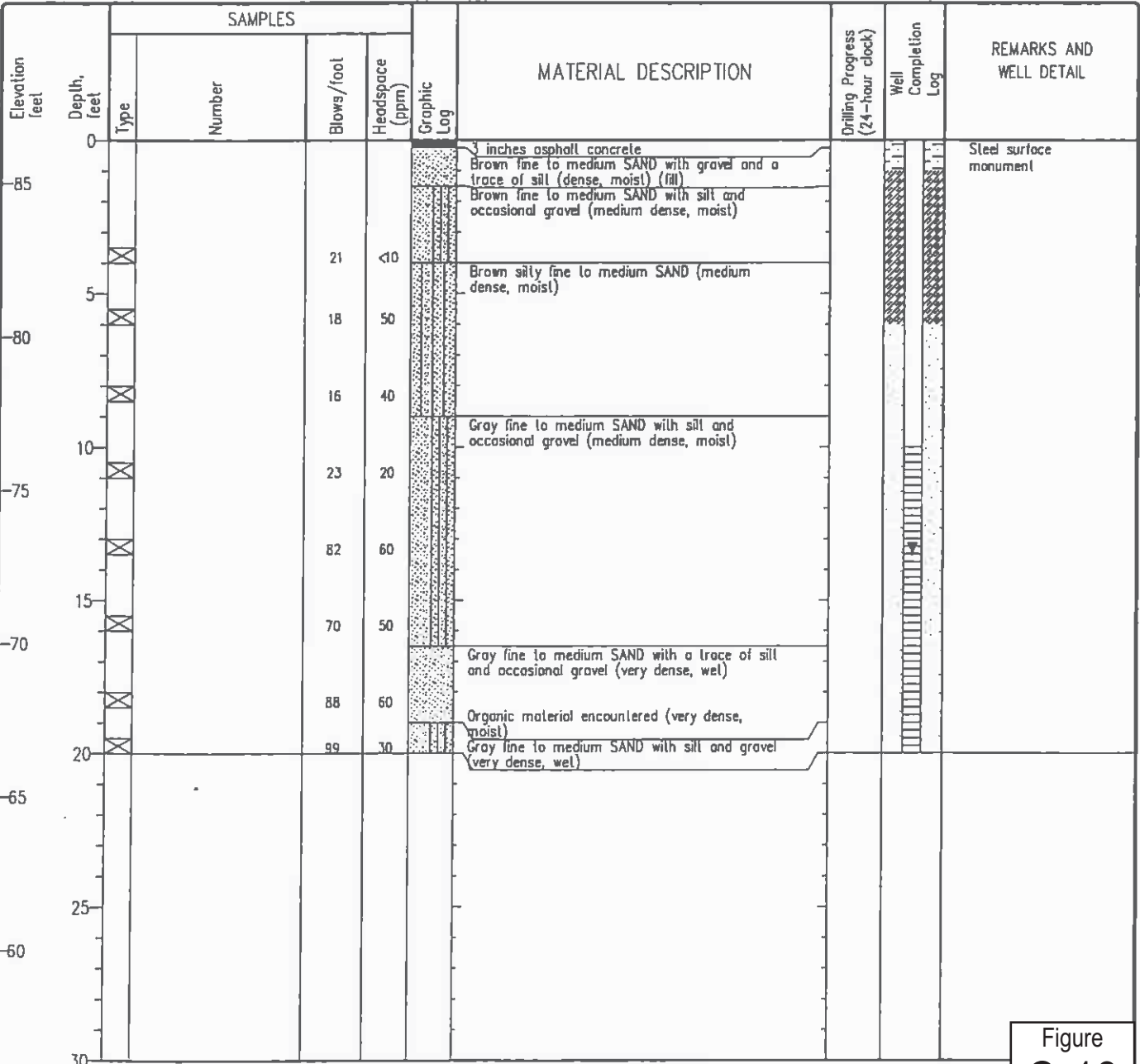


Report: ENV\_1A; Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING GP-2; Data Template: WC\_CORP.LGOT; Printed: 10/21/98

Figure C-12

Project: Boeing Auburn	Log of Boring AGW017 Sheet 1 of 1
Project Location: Auburn, Washington	
Project Number: 974009NB	

Date(s) Drilled	8/5/91	Logged By		Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	20.0
Drill Rig Type		Drilling Contractor		Hammer Weight/ Drop (lbs/in.)	300lb/30"
Groundwater Level (feet)	13.46	Date Measured	8/8/91	Approx. Surface Elevation (feet)	86.4
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Fine Sand Backfill	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.01" Slotted SCH 40 PVC
Comments					



Report: ENV\_1A, Project File: C:\PROGRAM-1\GINTY\PROJECTS\BOEING\CP-2, Date Template: WC\_CORP1.DOT, Printed: 10/21/98



Figure C-13



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW018

Sheet 1 of 1

Date(s) Drilled	9/24/93	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Holl Testing	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.2	Date Measured	09/24/93	Approx. Surface Elevation (feet)	88.0
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

Report: EW\_1A - Project File C:\PROGRAMS-1\GINTVA\PROJECTS\BOING.GPJ Data Template:WC\_CORP1.GDT Printed: 10/21/98

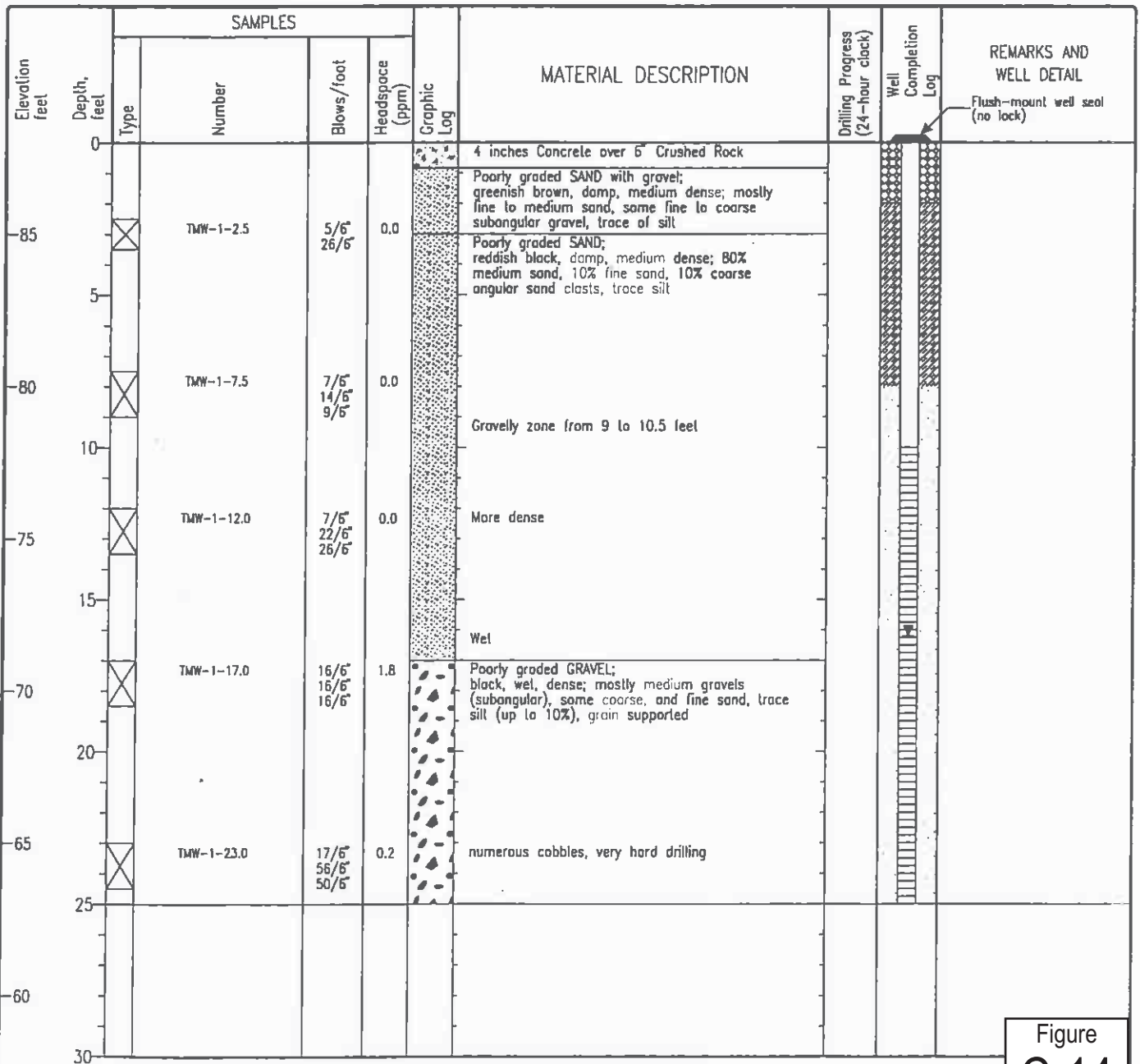


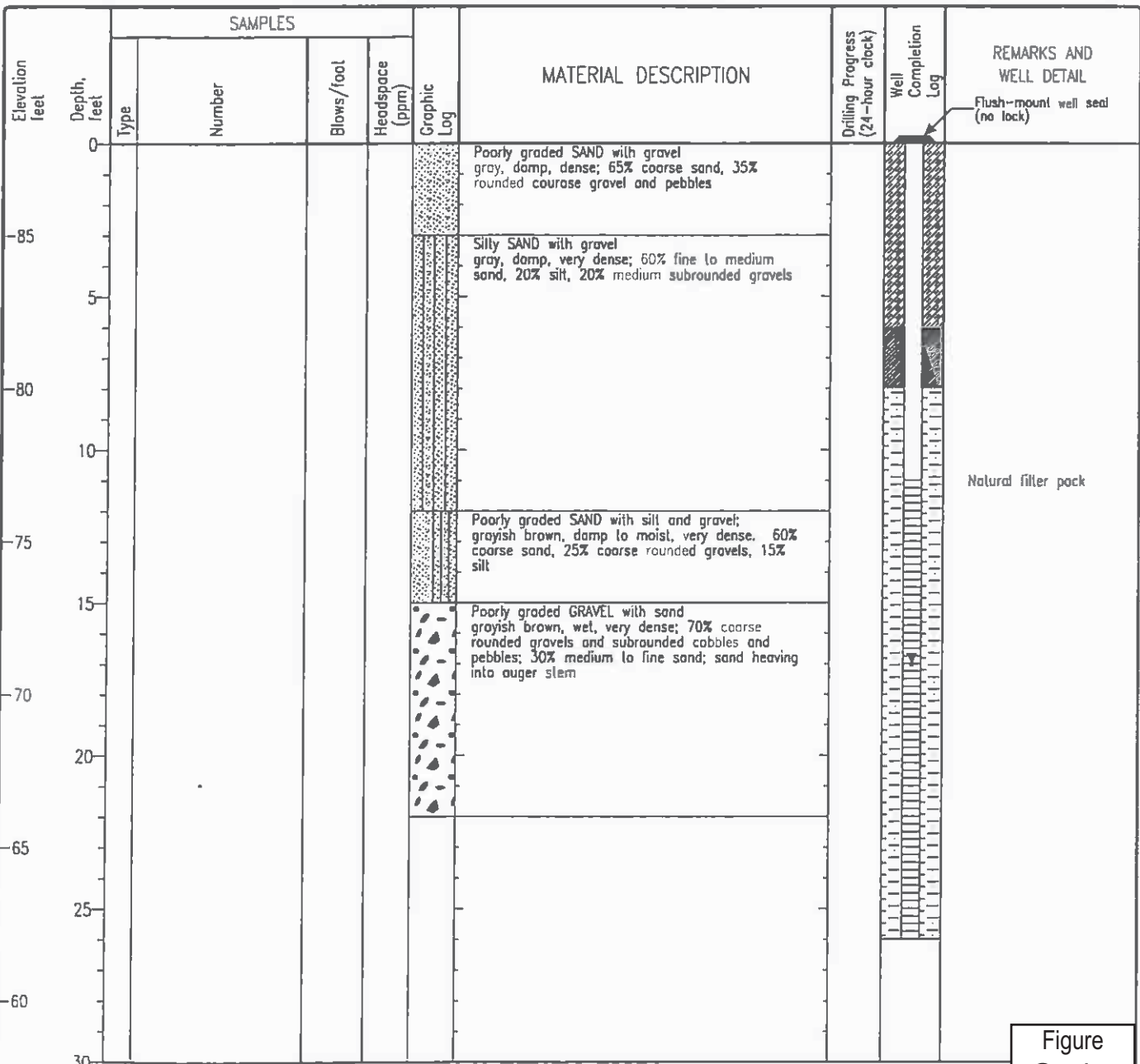
Figure C-14



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW020  
 Sheet 1 of 1

Date(s) Drilled	12/29/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	30.0
Drill Rig Type		Drilling Contractor	Mc-Garrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17	Date Measured	12/29/92	Approx. Surface Elevation (feet)	88.0
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Natural Formation	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory Slotted PVC
Comments					



Report: EW\_1A...project file C:\PROGRAMS\GINTWA\PROJECTS\BOEING\BP2; Data Template WC\_CORP1.GDT Printed: 10/21/98

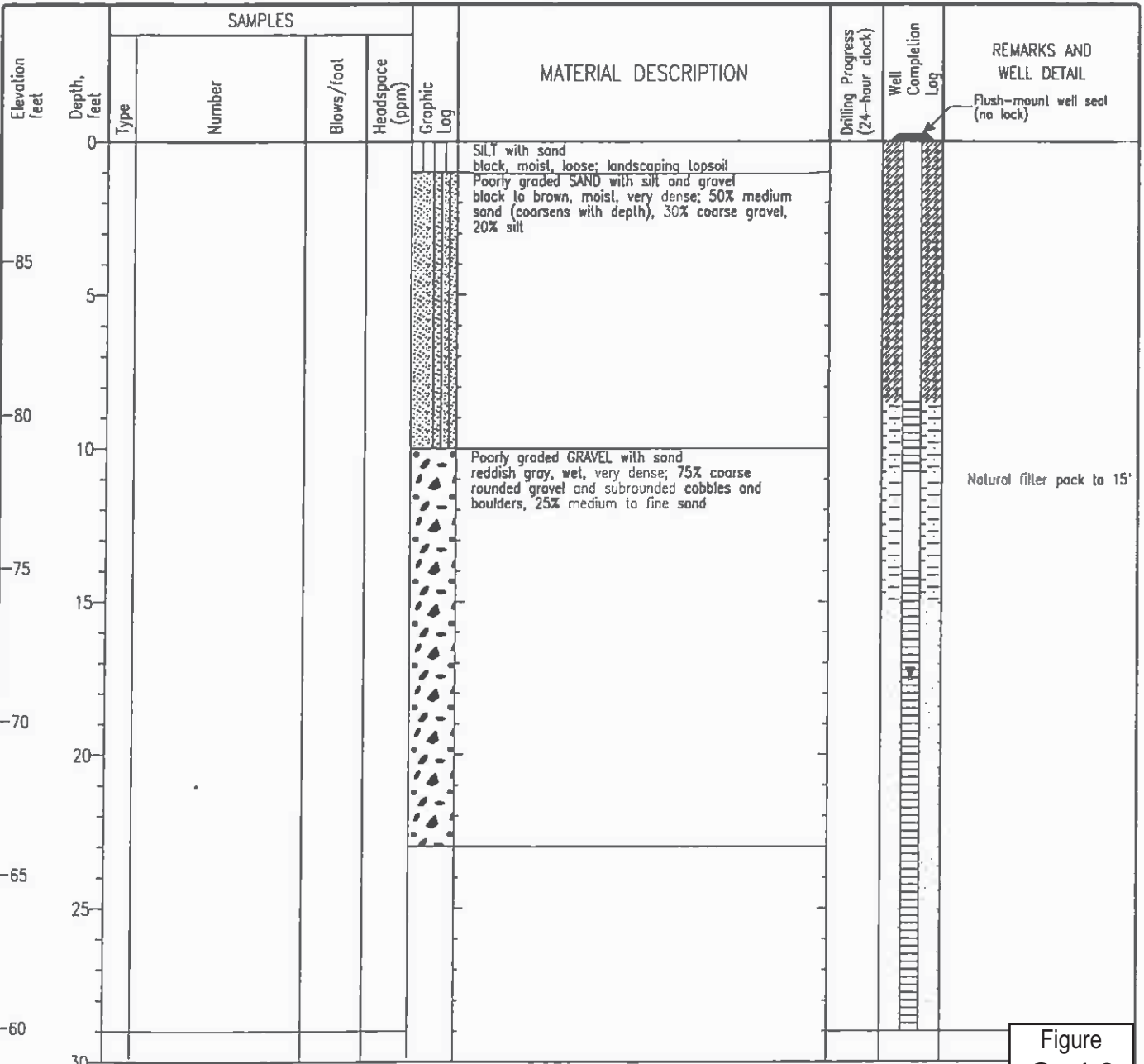
Figure C-15

Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW021

Sheet 1 of 1

Date(s) Drilled	12/30/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	29.0
Drill Rig Type		Drilling Contractor	Mc-Garrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17.5	Date Measured	12/30/92	Approx. Surface Elevation (feet)	88.9
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Natural Formation	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory Slotted PVC
Comments					



Report: EW\_1A Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOEING\GPI; Data Template: WC\_CORP1.GDT Printed: 10/21/98

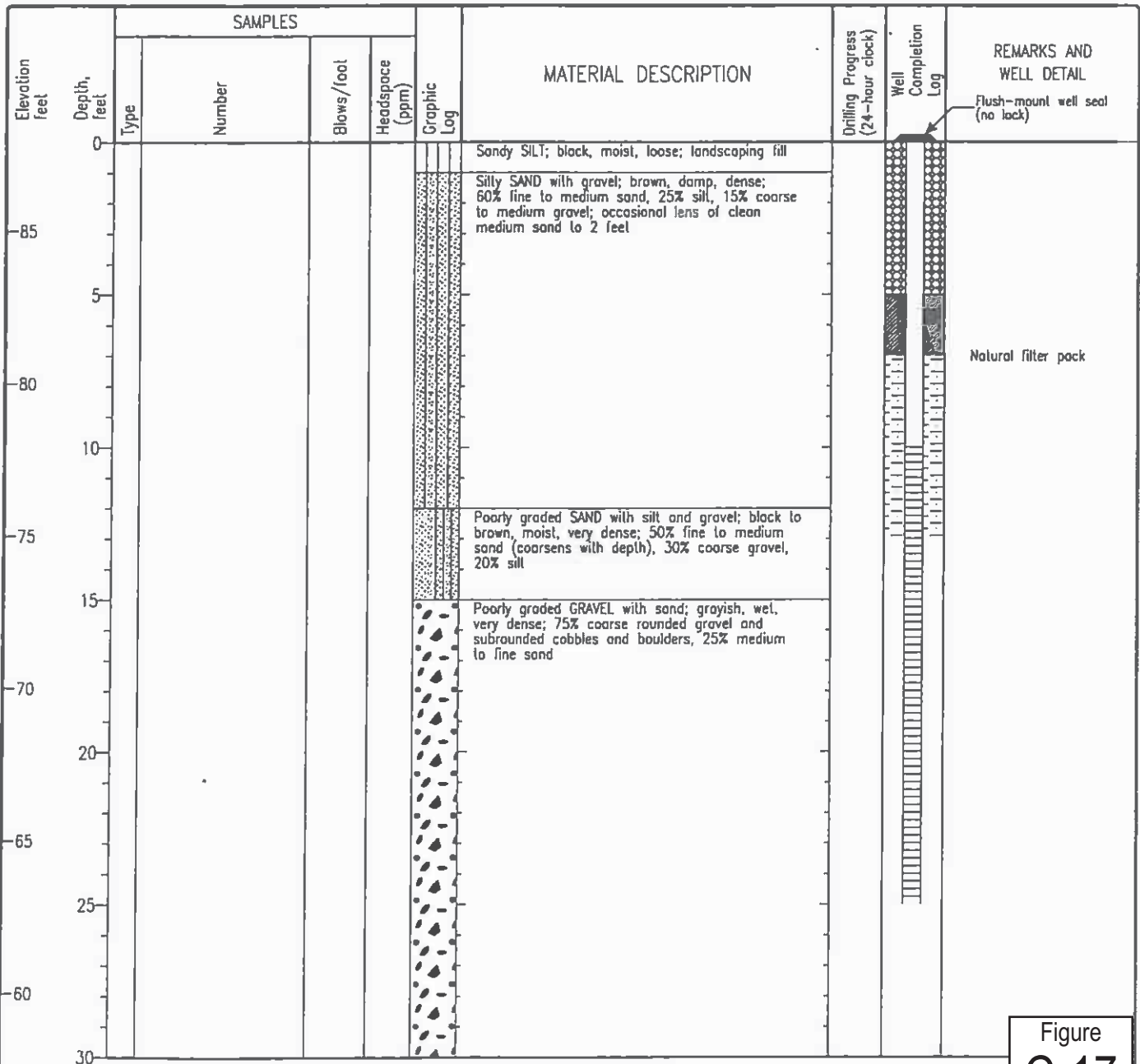
Figure C-16

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW022

Sheet 1 of 1

Date(s) Drilled	12/31/92	Logged By	T Marin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	30.0
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured	12/31/92	Approx. Surface Elevation (feet)	87.9
Diameter of Hole (inches)	Diameter of Well (inches) 4	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slotted PVC
Type of Sand Pack	Natural Formation	Type/Thickness of Seal(s)	1/4" Bentonite Pellets		
Comments					



Report: CIM\_1A - Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING\BFI; Date Template: WC\_CORP11.GDT; Printed: 10/21/98

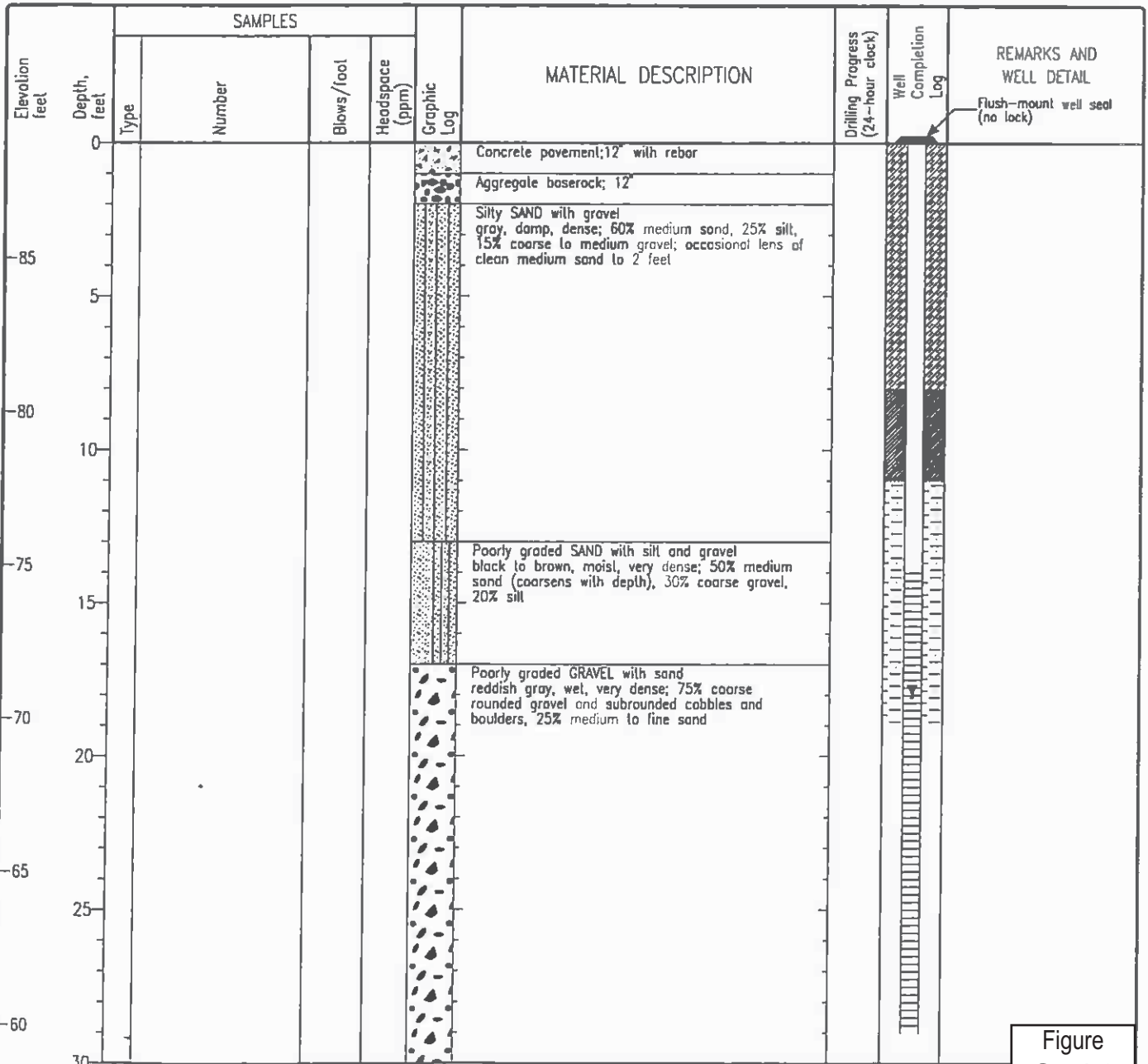
Figure C-17

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW023

Sheet 1 of 1

Date(s) Drilled	12/30/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	30.0
Drill Rig Type		Drilling Contractor	Mc-Gorrell Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	18	Date Measured	12/30/92	Approx. Surface Elevation (feet)	88.8
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Natural Formation	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory Slotted PVC
Comments					

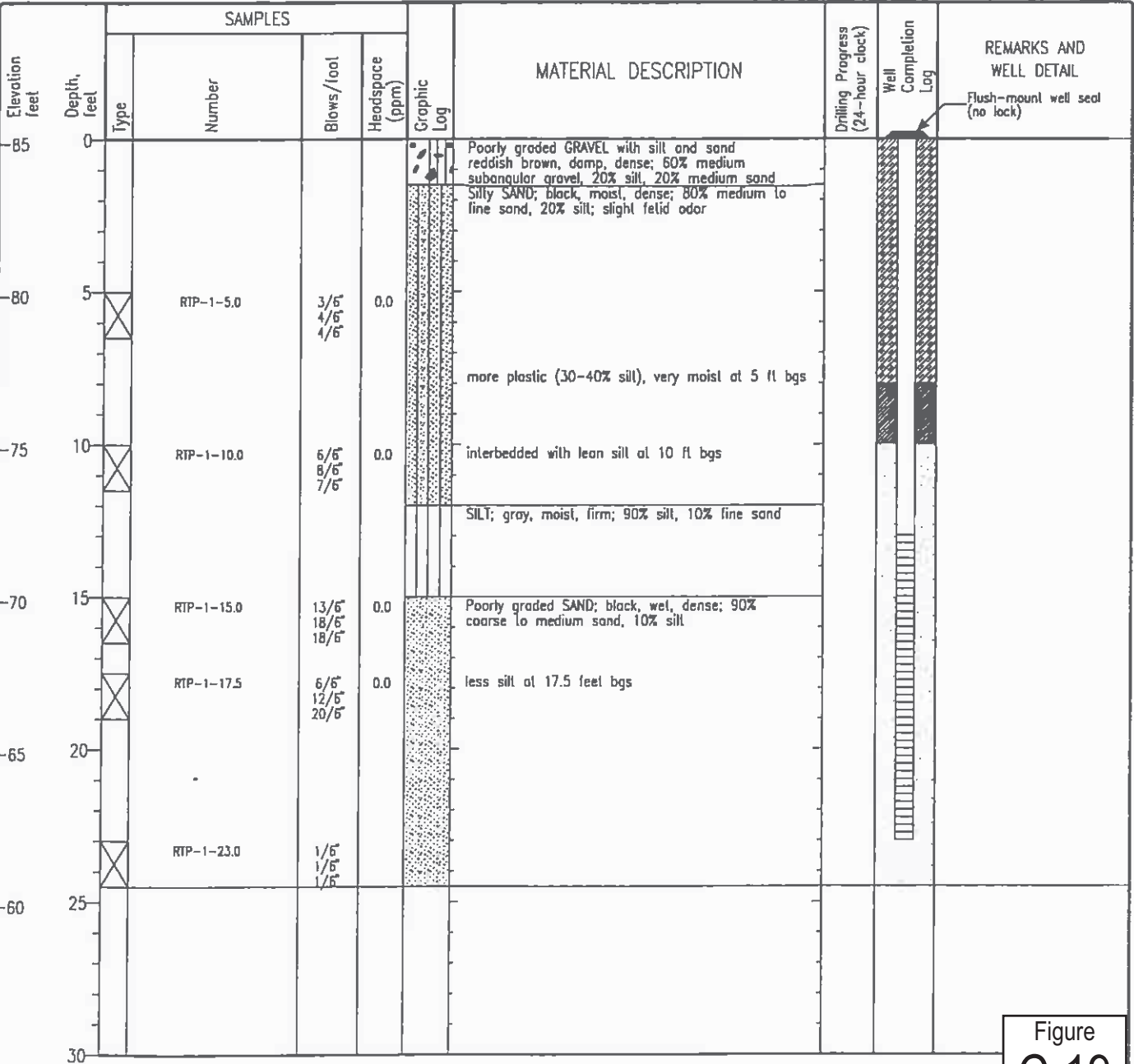


Report: EW\_1A, Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOILING.OP.J, Data Template: WC\_CORP1.GDT, Printed: 10/21/98

Figure C-18

Project: Boeing Auburn	Log of Boring AGW024
Project Location: Auburn, Washington	Sheet 1 of 1
Project Number: 974009NB	

Date(s) Drilled	10/15/92	Logged By	T Marin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	24.5
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)		Date Measured	10/15/92	Approx. Surface Elevation (feet)	85.2
Diameter of Hole (inches)	Diameter of Well (inches)	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Stainless Steel Wire Wound
	4	Type/Thickness of Seal(s)	1/4" Bentonite Pellets		
Type of Sand Pack	10/20 Silica Sand				
Comments					



Report: ENV\_14; Project File: C:\PROGRAM-1\DATA\PROJECTS\BOEING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

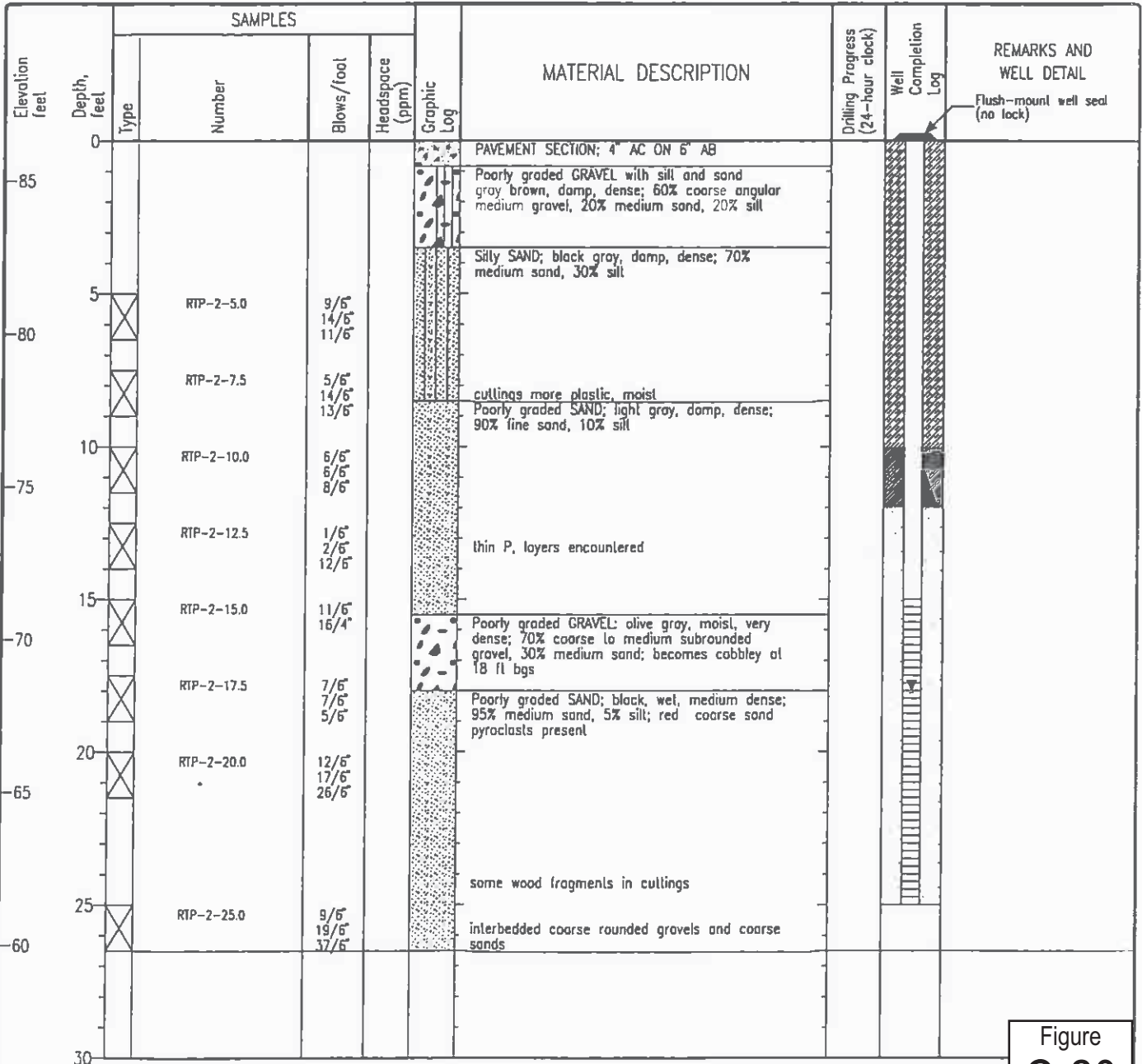
Figure C-19

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW025

Sheet 1 of 1

Date(s) Drilled	10/15/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	26.5
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	18	Date Measured	10/15/92	Approx. Surface Elevation (feet)	86.3
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory slotted PVC
Comments					



Report: EW-1A, Project File: C:\PROGRAM-1\GINTA\PROJECTS\BOEING\GPI; Data Template: WC\_CORP1.GDT Printed: 10/21/98



Figure  
C-20

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW026

Sheet 1 of 1

Date(s) Drilled	10/14/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	26.5
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17	Date Measured	10/14/92	Approx. Surface Elevation (feet)	86.3
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory slotted PVC
Comments					

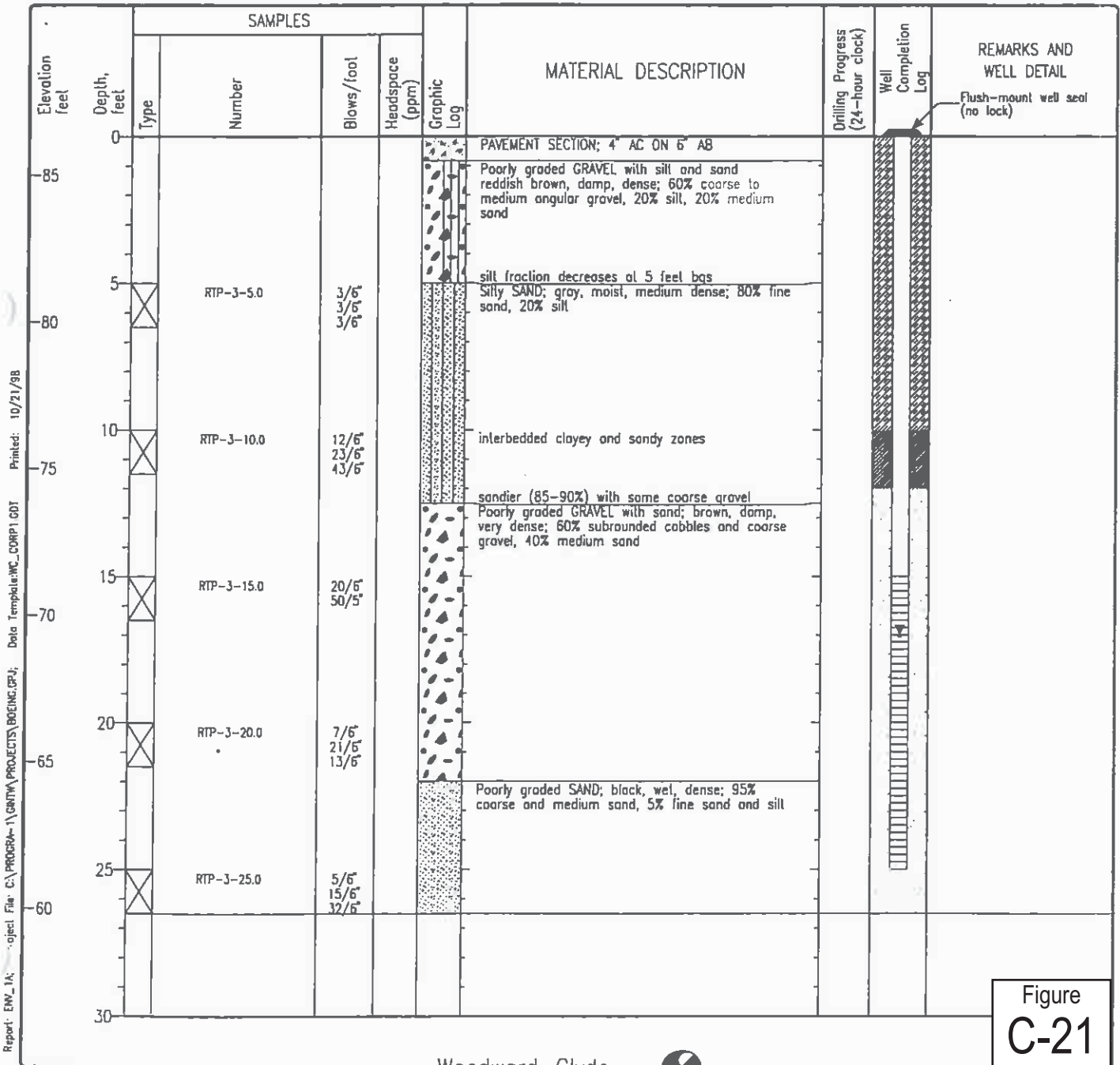
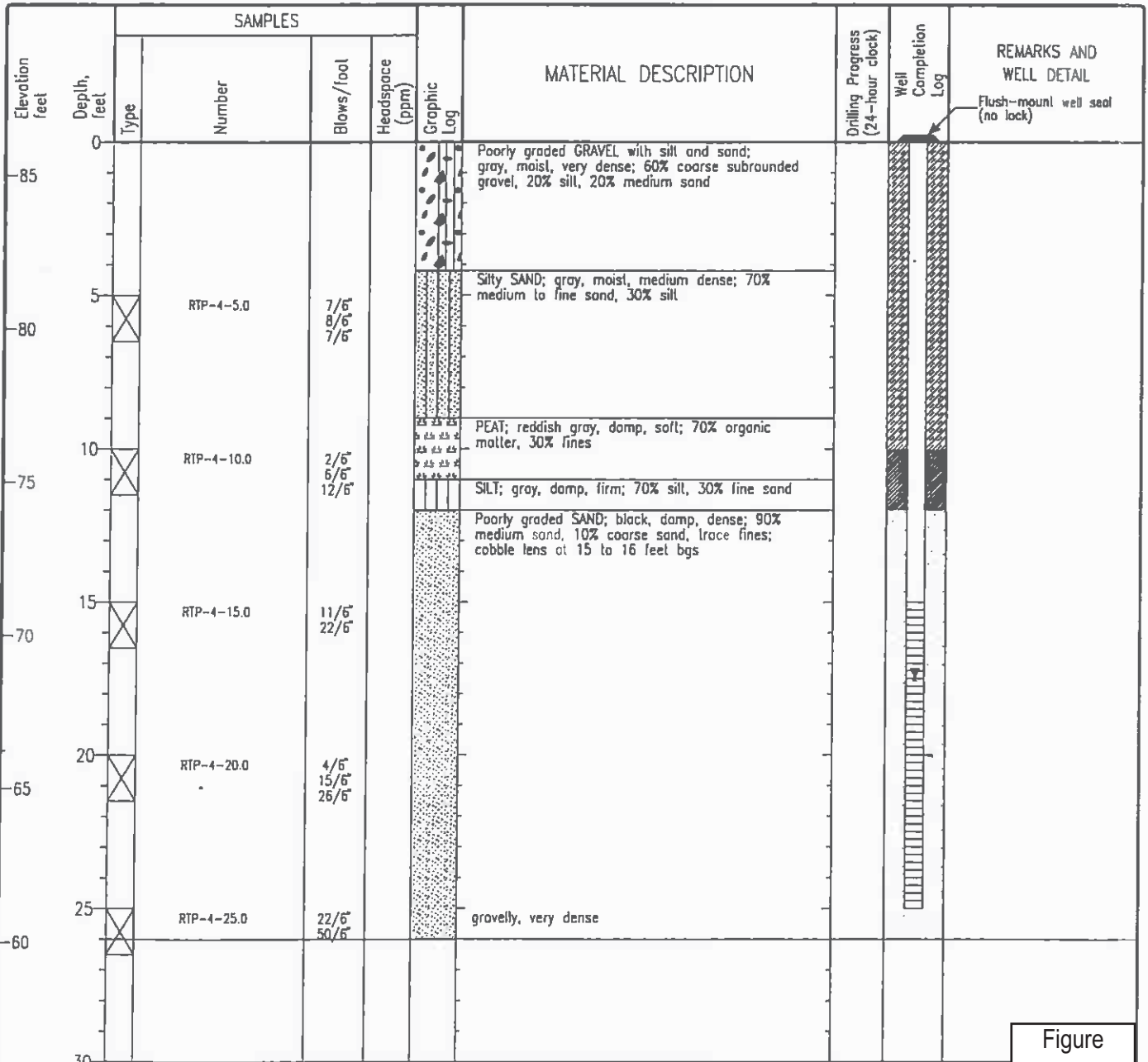


Figure  
C-21



Date(s) Drilled: 11/9/92	Logged By: T Morin	Checked By:
Drilling Method: Hollow Stem Auger	Drill Bit Size/Type: 6.25" ID	Total Depth Drilled (feet): 26.0
Drill Rig Type:	Drilling Contractor: McGarrett Drilling	Hammer Weight/Drop (lbs/in.):
Groundwater Level (feet): 17.5	Date Measured: 11/09/92	Approx. Surface Elevation (feet): 86.1
Diameter of Hole (inches):	Diameter of Well (inches): 4	Type of Well Casing: SCH 40 PVC
Type of Sand Pack: 10/20 Silica Sand	Type/Thickness of Seal(s): 1/4" Bentonite Pellets	Screen Perforation: 0.010" Slotted SCH 40 PVC
Comments:		



Report: ENW\_1A, project File: C:\PROGRAMS\GINTM\PROJECTS\BOEING\GPJ; Data Tempfile: WC\_CORP1.GDT Printed: 10/21/98

Figure  
**C-22**

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW028

Sheet 1 of 1

Date(s) Drilled	11/10/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	26.5
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17	Date Measured	11/10/92	Approx. Surface Elevation (feet)	86.7
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Slotted SCH 40 PVC
Comments					

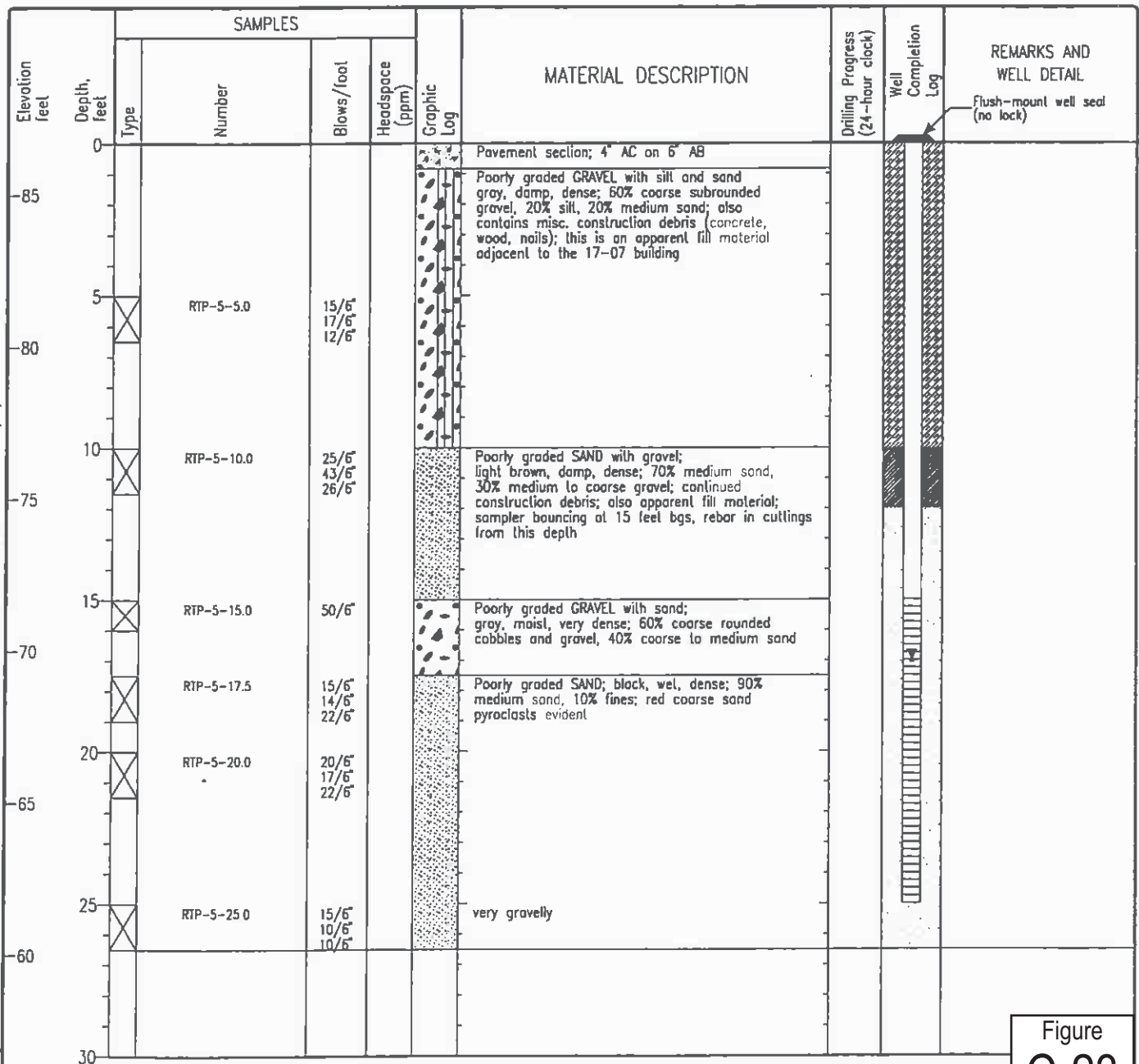


Figure  
C-23



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW029

Sheet 1 of 1

Date(s) Drilled	11/9/92	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	26.0
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17.5	Date Measured	11/09/92	Approx. Surface Elevation (feet)	85.0
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Slotted SCH 40 PVC
Comments					

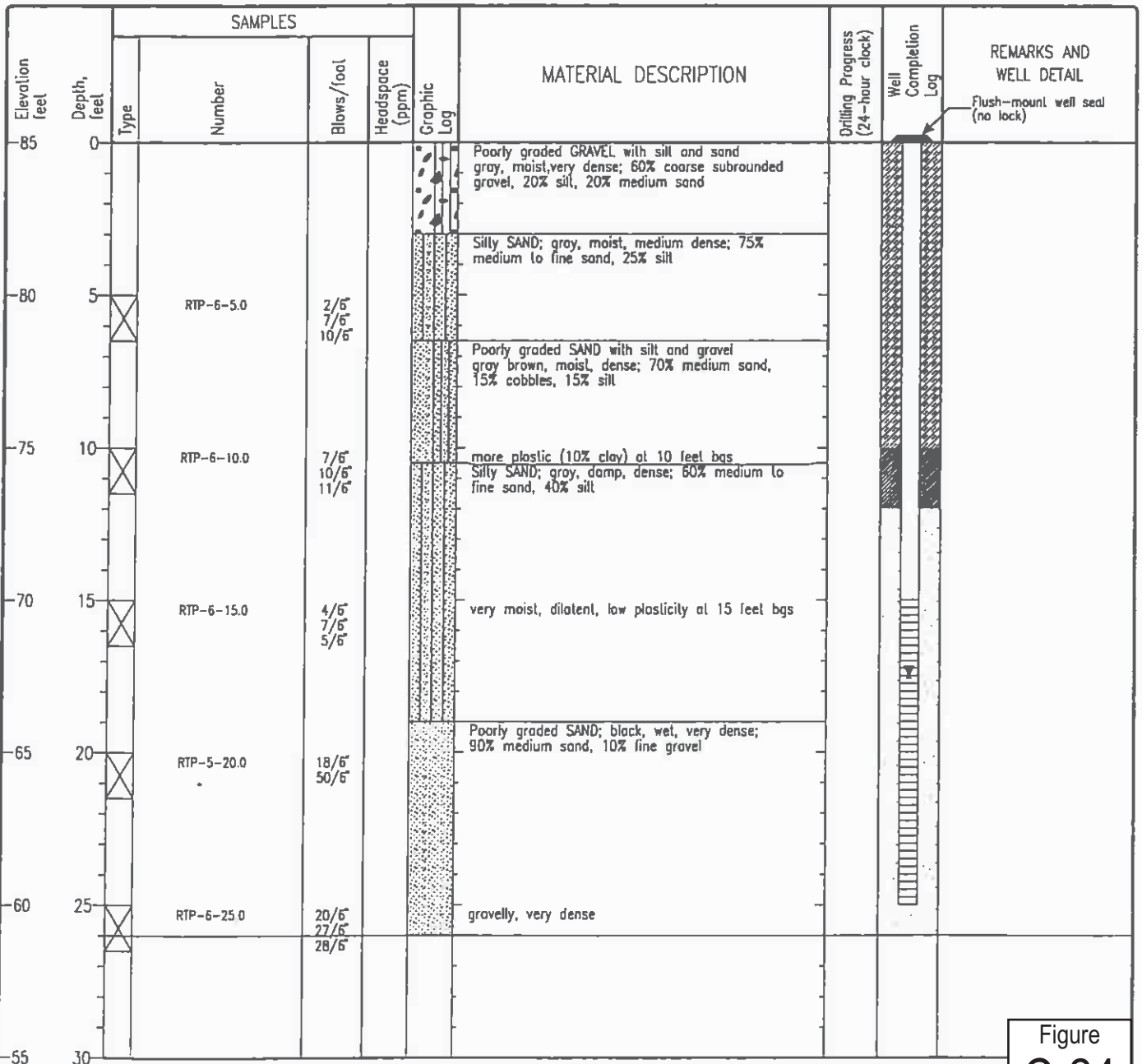


Figure C-24



Report: EW\_1A... Project File: C:\PROGRAMS\1\CANTW\PROJECTS\BOEING\CP1... Data Templates\WC\_CORP1.CDT Printed: 10/21/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW030

Sheet 1 of 1

Date(s) Drilled	11/11/92	Logged By	T Marin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" ID	Total Depth Drilled (feet)	25.5
Drill Rig Type		Drilling Contractor	McGarrett Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17.2	Date Measured	11/11/92	Approx. Surface Elevation (feet)	84.7
Diameter of Hole (inches)	Diameter of Well (inches) 4	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Slotted SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets		
Comments					

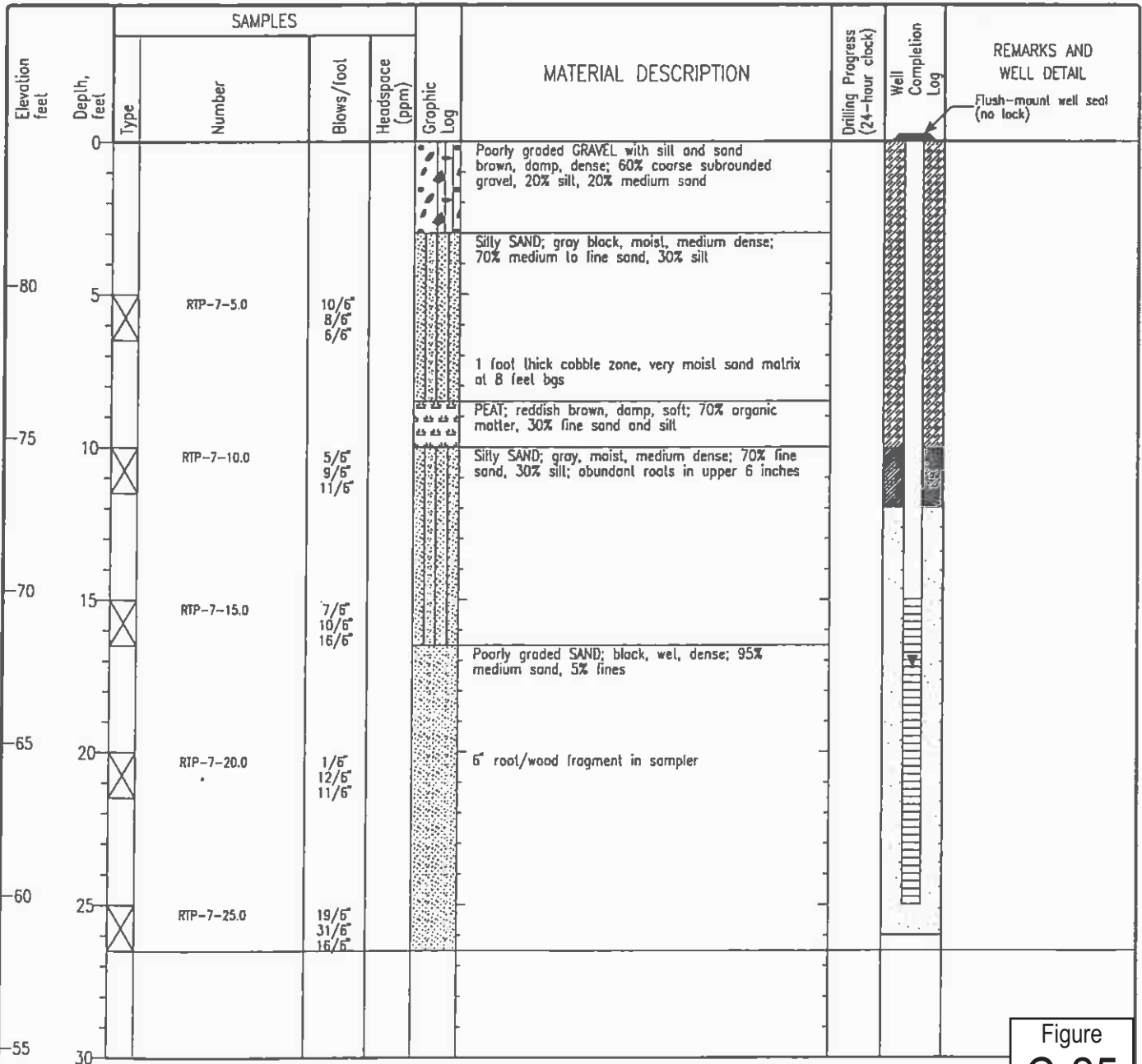


Figure C-25

Report: ENW\_1A, Object File: C:\PROGRAM-1\GINTWA\PROJECTS\BOEING\OP4; Data Template: WC\_CORP1.CDT Printed: 10/21/98



# AGW031R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)

Sample Number & Interval

Sampler Type

Blows/Foot

PID (ppm)

Graphic Symbol

USCS Symbol

Drilling Method: Hollow-stem Auger

Ground Elevation (ft): 86.22

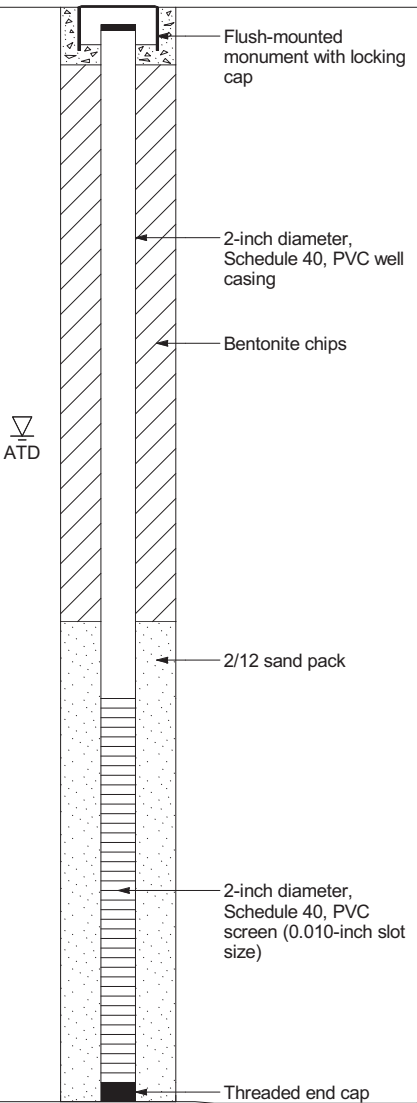
Drilled By: Cascade Drilling Inc.

Monitoring Well Detail  
(DOE#: APS335)

Water Level

8 in

See log for AGW098R for lithology



Boring Completed 03/20/07  
Total Depth of Boring = 28.5 ft.

Monitoring Well Completed 03/20/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 85.96 ft.  
Total Depth of Monitoring Well = 28.5 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.
  4. DOE Unique Well Number: APS335

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW031R

Figure  
**C-26**

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW032

Sheet 1 of 1

Date(s) Drilled	9/8/94	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	8 5/8" OD	Total Depth Drilled (feet)	28.0
Drill Rig Type		Drilling Contractor	Cascade Drilling Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	18	Date Measured	09/08/94	Approx Surface Elevation (feet)	86.8
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Colorado Silica	Type/Thickness of Seal(s)	Coarse Bentonite Chips	Screen Perforation	0.010" Factory Slotted PVC
Comments					

Report: EMW\_1A... Project File: C:\PROGRAMS\1\GINTWA\PROJECTS\BOEING CPJ... Data Template: WC\_CORP1.GDT Printed: 10/21/98

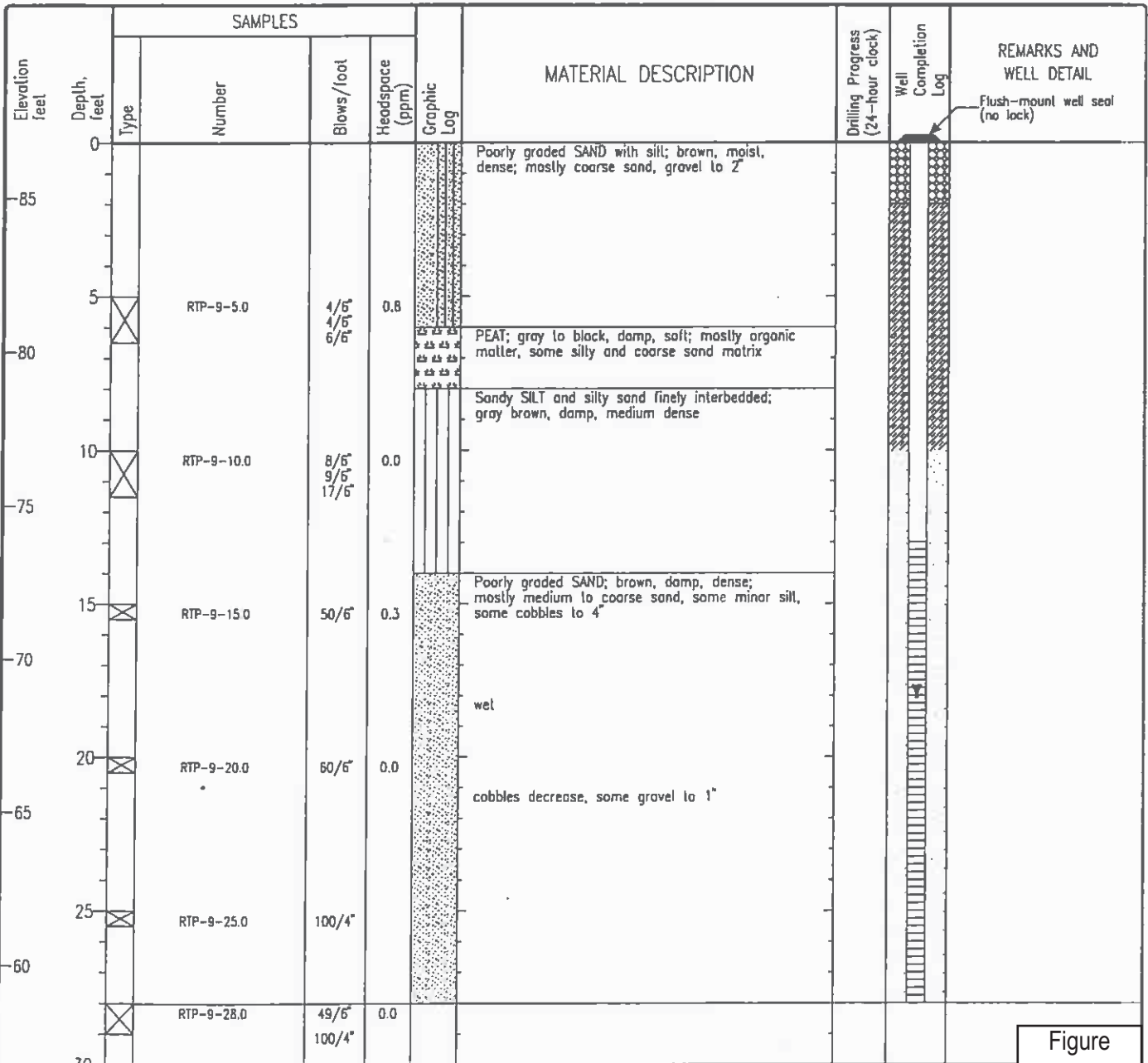


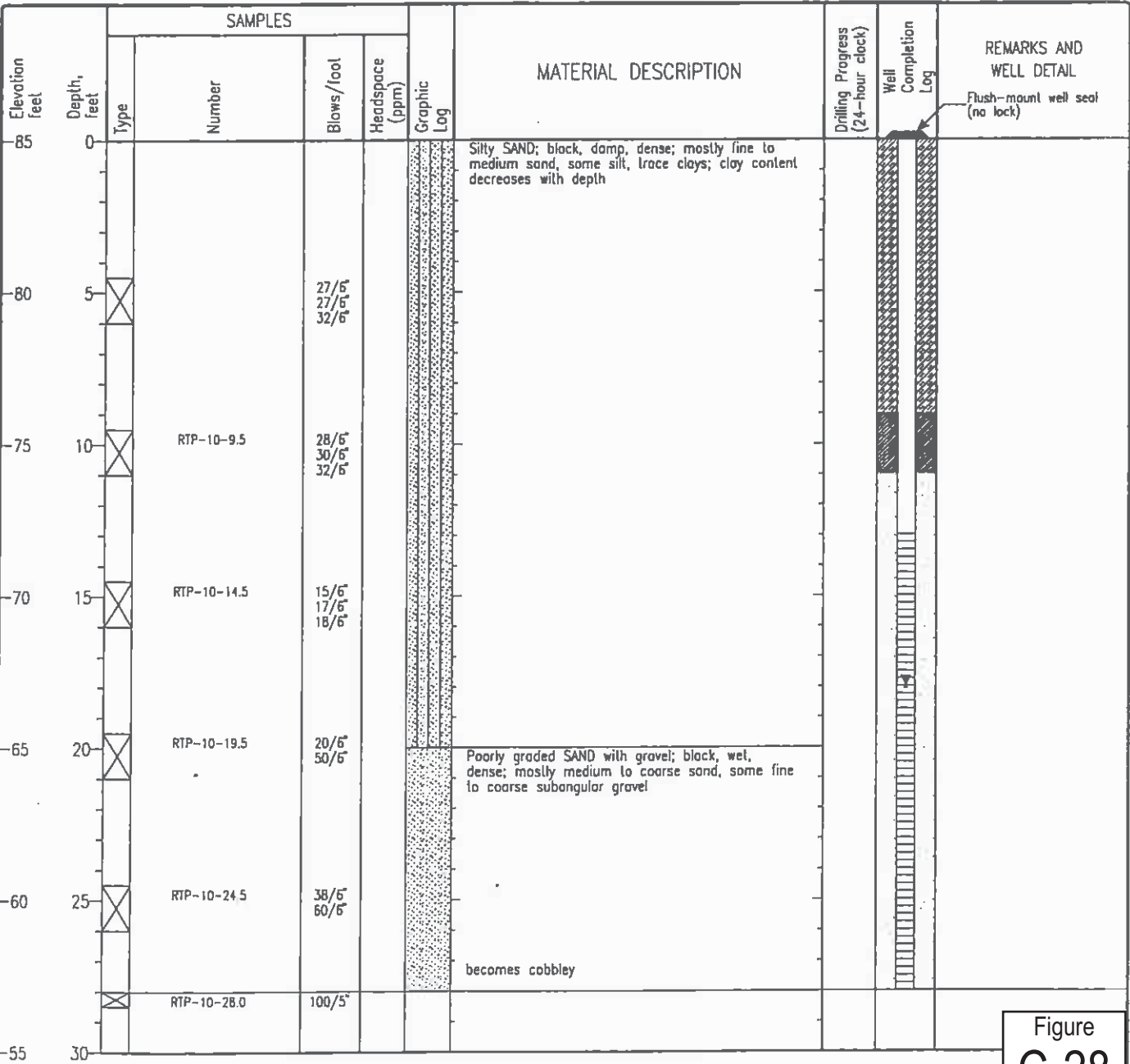
Figure  
C-27



Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW033  
 Sheet 1 of 1

Date(s) Drilled	12/15/94	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/type	8 5/8" OD	Total Depth Drilled (feet)	28.0
Drill Rig Type		Drilling Contractor	Cascade Drilling Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	18	Date Measured	12/15/94	Approx. Surface Elevation (feet)	85.0
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory Slot SCH 40 PVC
Comments					



Report: ENV. I.A. - 10/21/98 File: C:\PROGRAM-1\GINTM\PROJECTS\BOENG.CPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

Figure C-28

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW034

Sheet 1 of 4

Date(s) Drilled	1/17/95 - 1/18/95		Logged By	TC Marin	Checked By	
Drilling Method	Percussion		Drill Bit Size/Type	12" OD	Total Depth Drilled (feet)	140.0
Drill Rig Type			Drilling Contractor	Layne Environmental Services	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	20		Date Measured	01/18/95	Approx. Surface Elevation (feet)	85.3
Diameter of Hole (inches)	Diameter of Well (inches) 4		Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slot SCH 40 PVC
Type of Sand Pack	3' 20/40 over 10/20 Silica		Type/Thickness of Seal(s)	Bentonite Grout		
Comments						

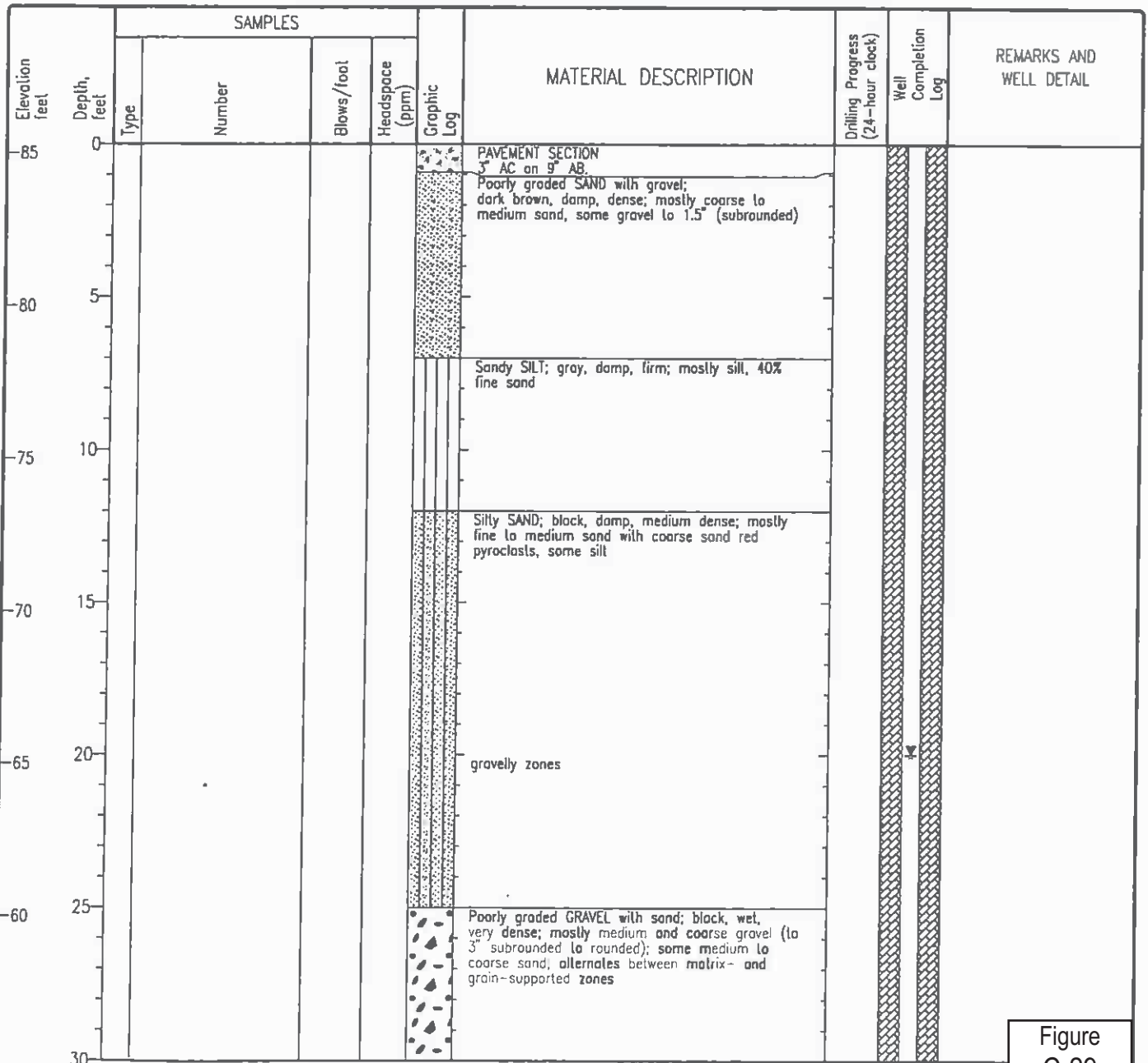


Figure C-29  
(1 of 4)



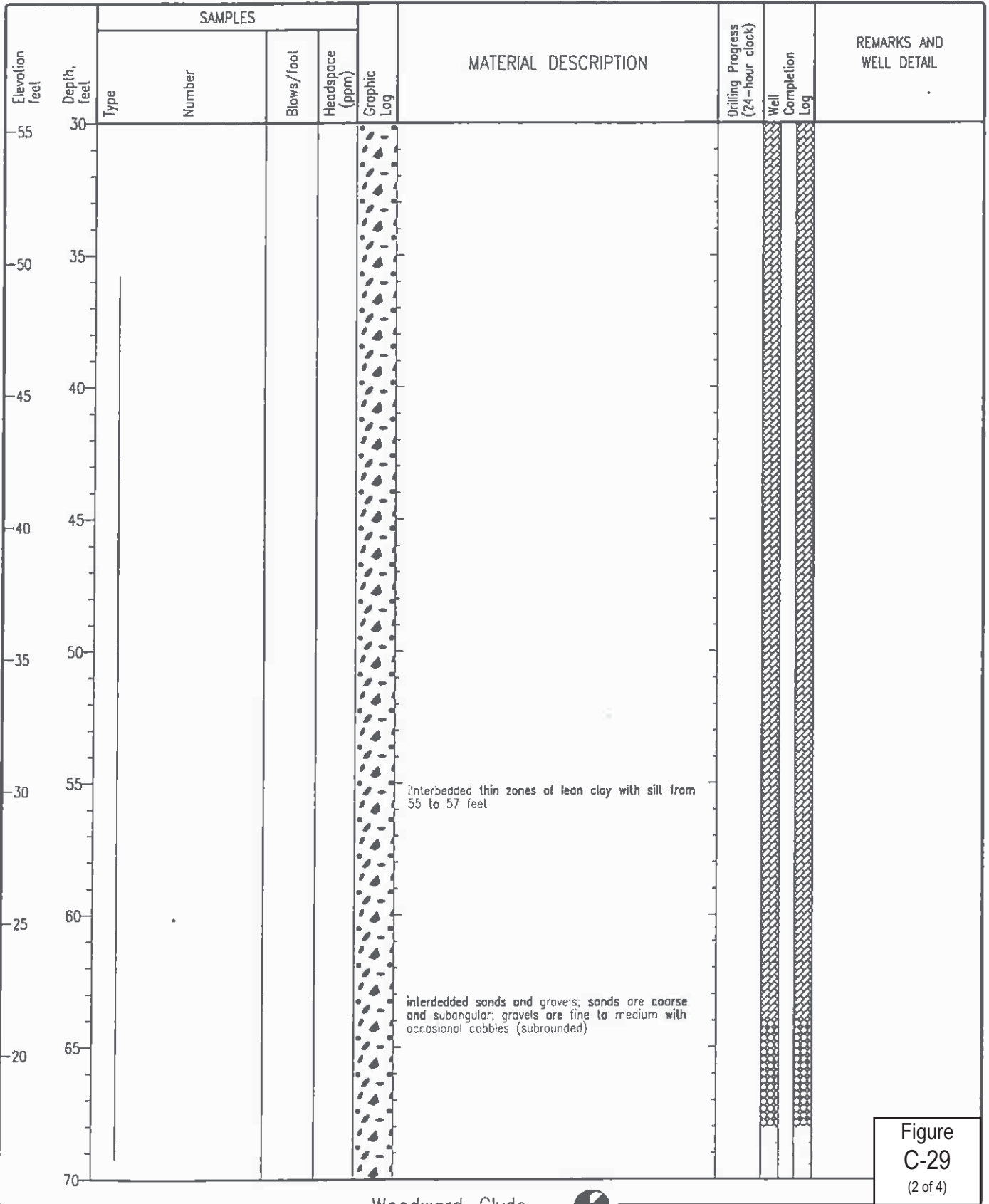
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 Printed: 10/21/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW034

Sheet 2 of 4



Report: EHV\_1A; Project File: C:\PROGRAM-1\GINTM\PROJECTS\BOEING\CP-2; Data Template WC\_CORP1.CDT Printed: 10/21/98

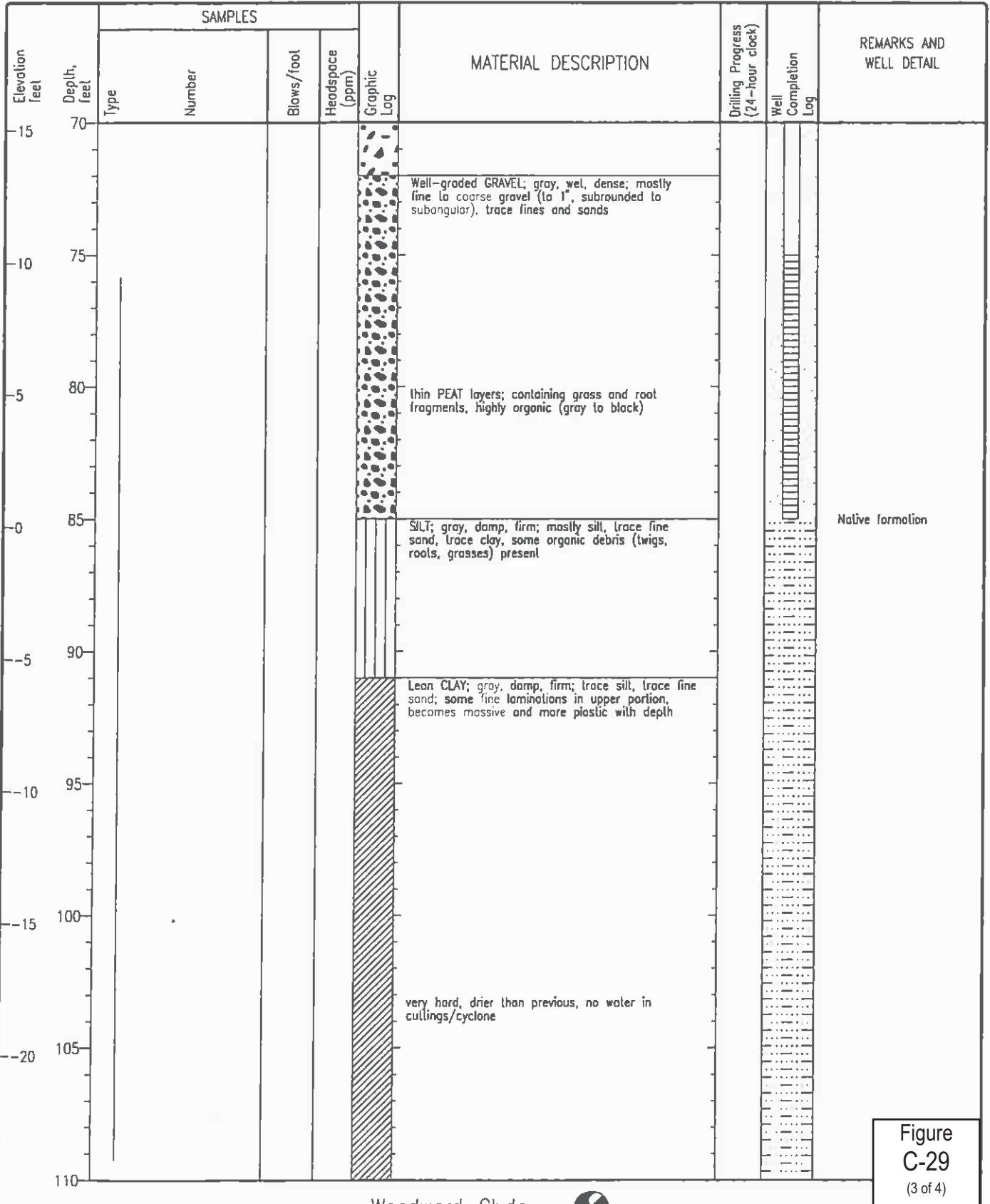


Figure C-29  
(2 of 4)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW034

Sheet 3 of 4



Report: EW-11, Object File: C:\PROGRAM-1\DWG\PROJECTS\BOEING GP-1, Data Template: MC\_CORP1.DDT, Printed: 10/21/98

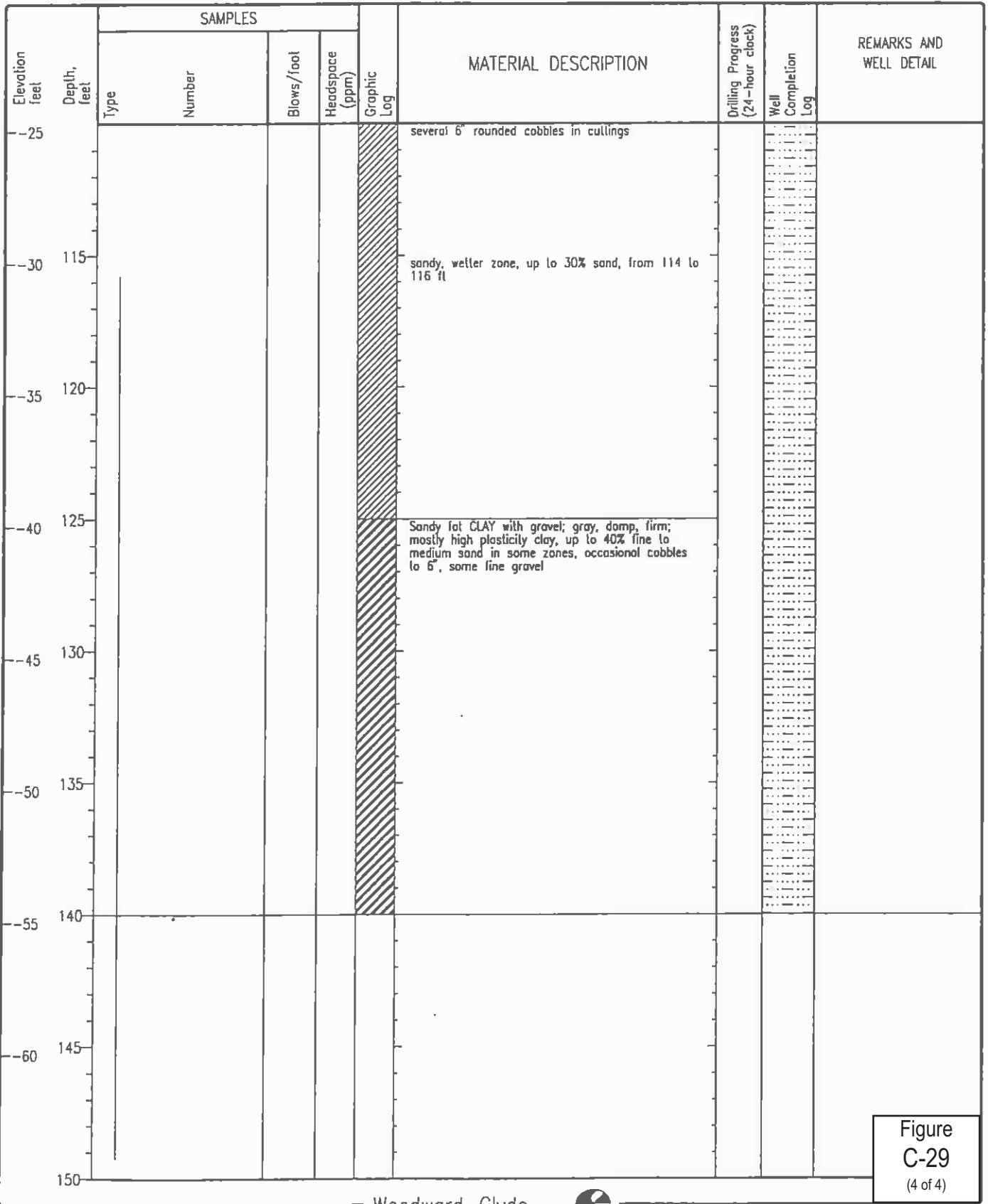
Figure C-29  
(3 of 4)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW034

Sheet 4 of 4



Report: ENV\_1A  
 Project: C:\PROGRAM-1\GINTW\PROJECTS\BOEING GP4;  
 Data Template: WC\_CORP1.CDT  
 Printed: 10/21/98

Figure  
 C-29  
 (4 of 4)

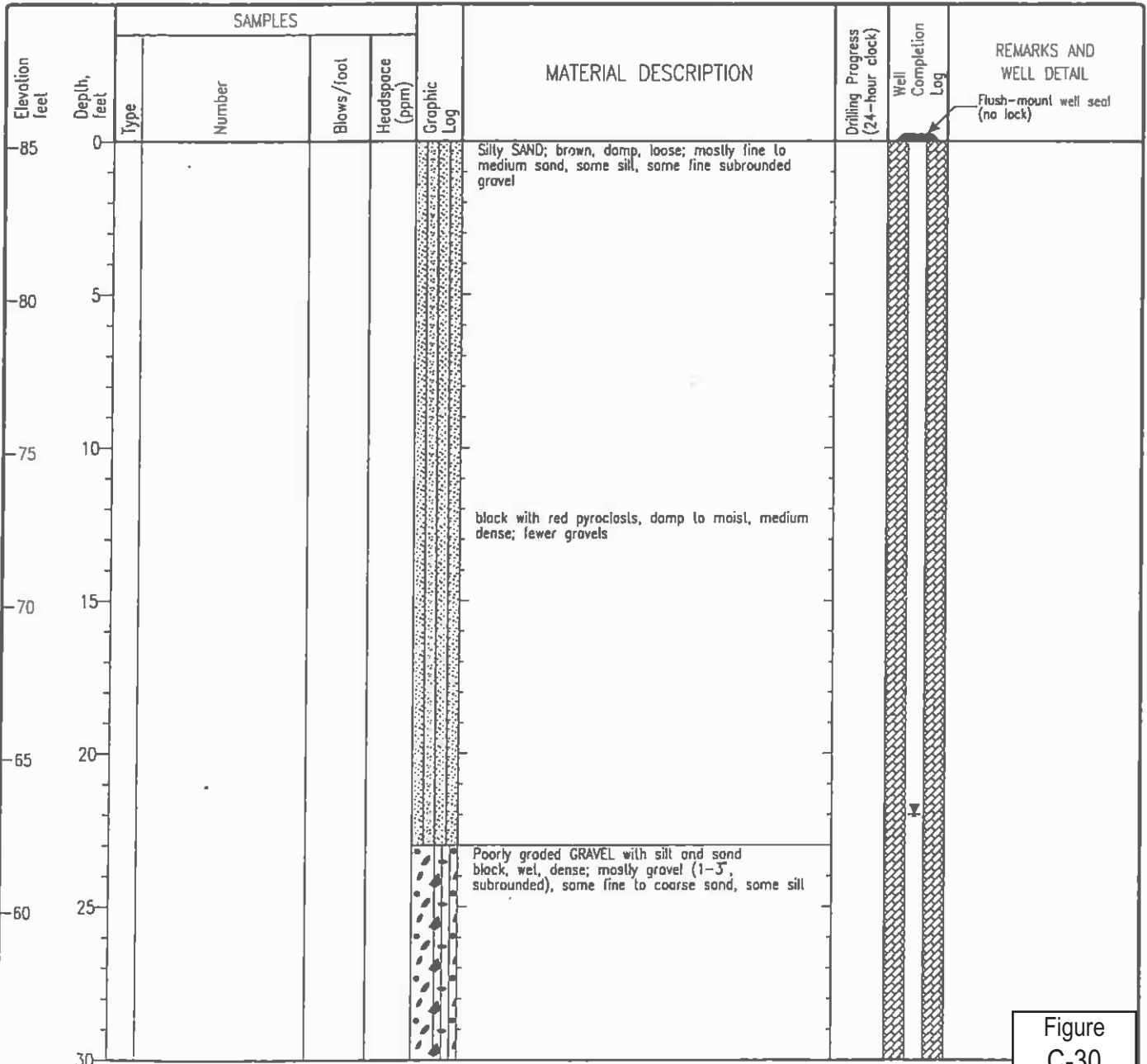


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW035

Sheet 1 of 3

Date(s) Drilled	1/19/95		Logged By	TC Morin	Checked By	
Drilling Method	Percussion		Drill Bit Size/Type	12" OD	Total Depth Drilled (feet)	105.0
Drill Rig Type			Drilling Contractor	Layne Environmental Services	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	22		Dole Measured	01/19/95	Approx. Surface Elevation (feet)	85.2
Diameter of Hole (inches)	Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slot SCH 40 PVC
Type of Sand Pack	4' 20/40 over 10/20 Silica		Type/Thickness of Seal(s)	Bentonite Grout		
Comments						



Report: ENR\_11... Project File C:\PROGRAMS\GINTWA\PROJECTS\BOEING\DPJ; Data Template.WC\_CORP1.GDT Printed: 10/21/98

Figure C-30  
(1 of 3)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW035

Sheet 2 of 3

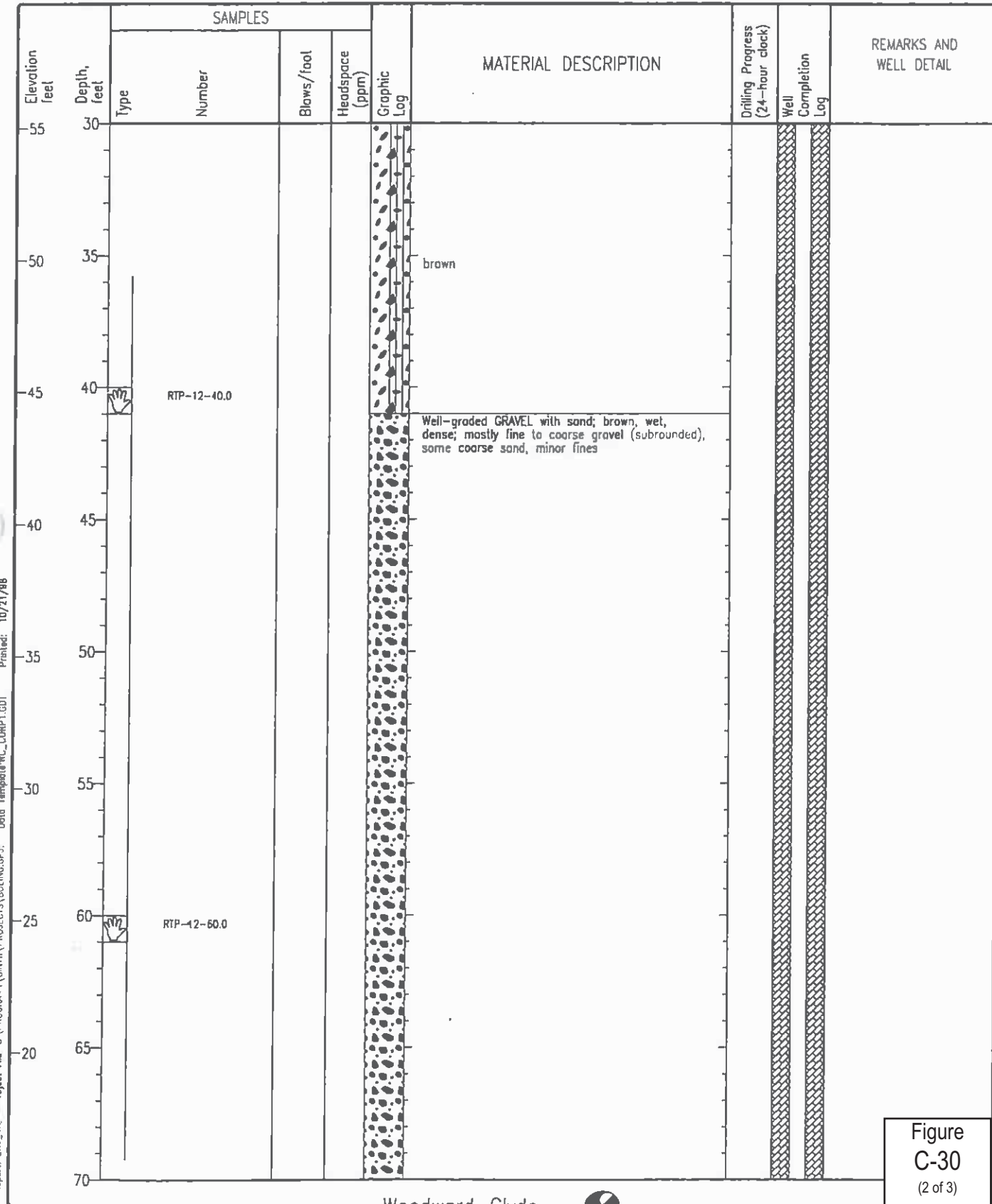


Figure  
 C-30  
 (2 of 3)

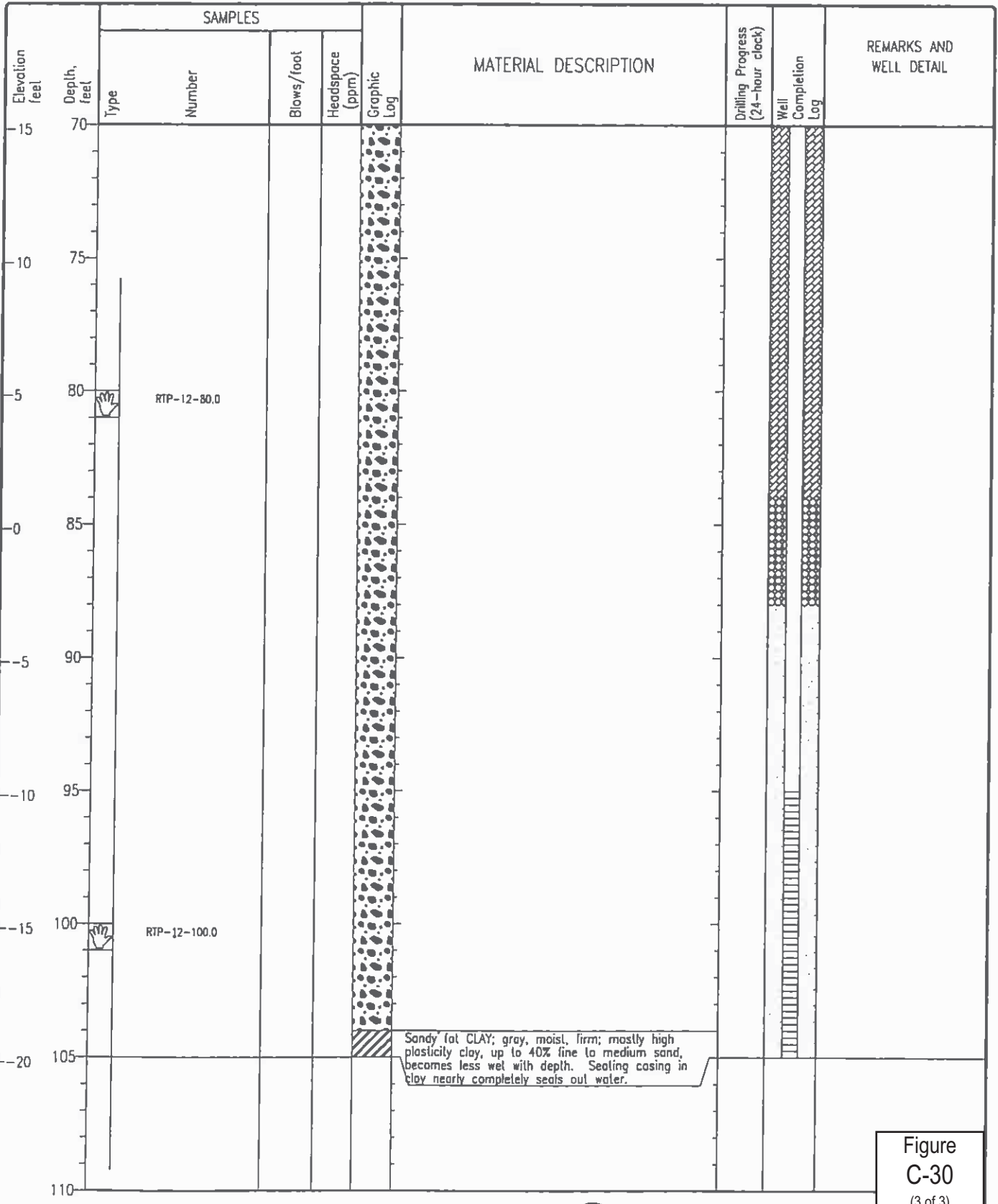


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Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW035

Sheet 3 of 3



Report: ENV-1a - project File: C:\PROGRAMS\1\GINTVA\PROJECTS\BOEING GPJ, Data Template: MC\_CORP1.GDT Printed: 10/21/98

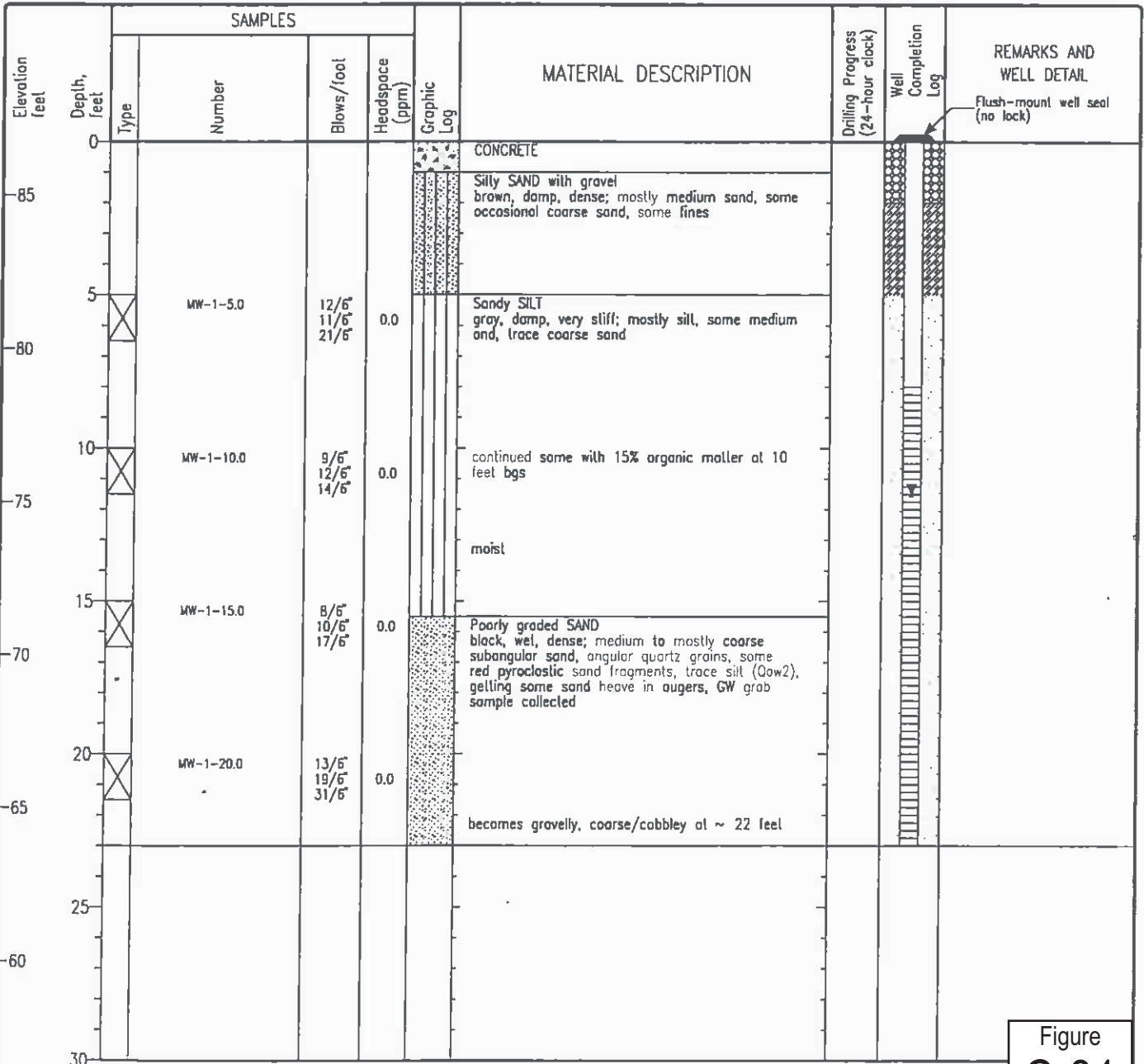
Figure  
C-30  
(3 of 3)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW037

Sheet 1 of 1

Date(s) Drilled	1/8/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	4 5/8" ID	Total Depth Drilled (feet)	23.0
Drill Rig Type		Drilling Contractor	Cascade Drilling	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	11.5	Date Measured	01/08/96	Approx Surface Elevation (feet)	86.8
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Prepacked Filler	Type/Thickness of Seal(s)	Coarse Bentonite Pellets	Screen Perforation	0.020" Factory Slotted SCH 40 PVC
Comments					

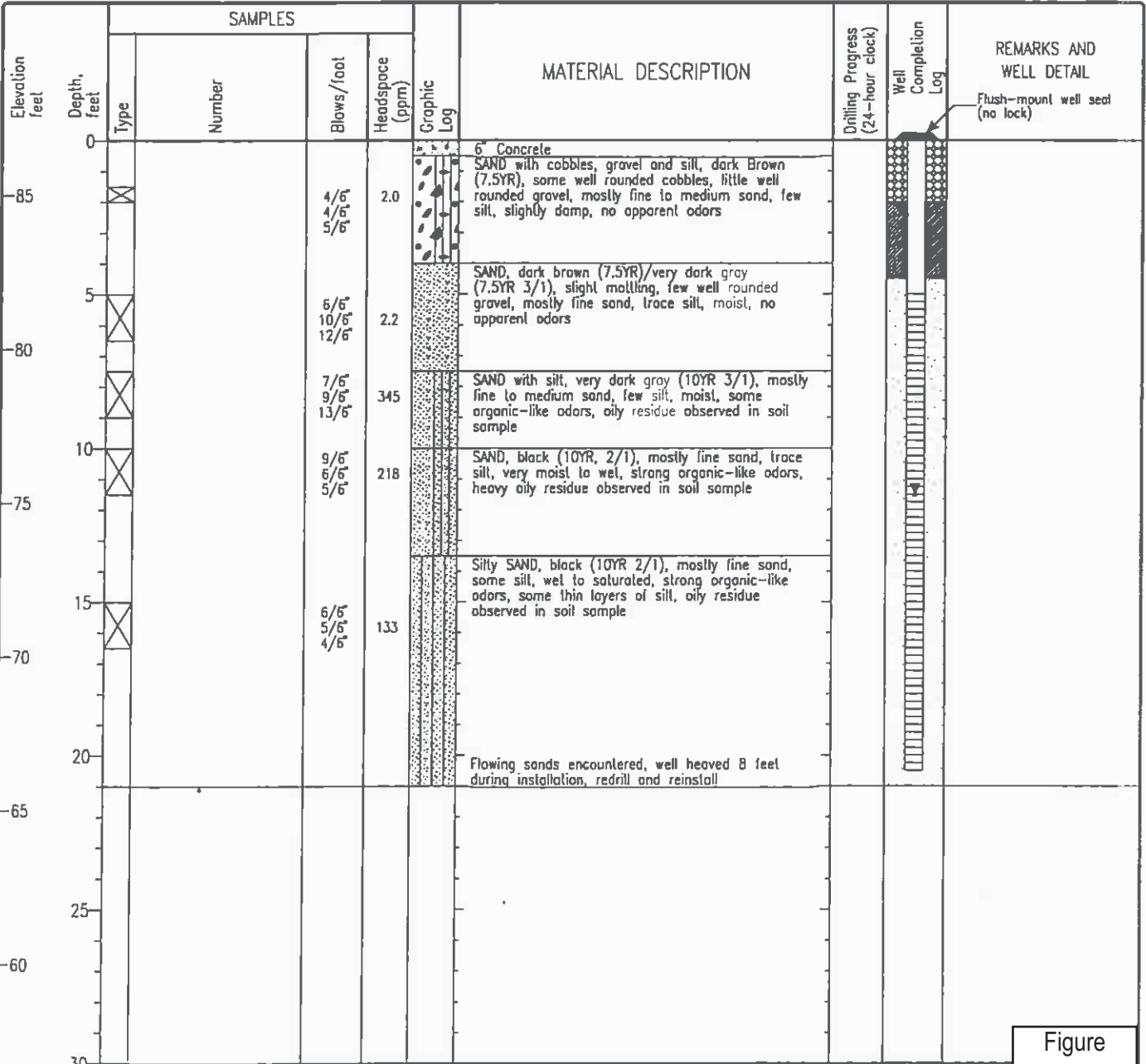


Report: Ewr, Inc. - Project File: C:\PROGRAM-1\GWIN\PROJECTS\BOEING OF4; Data Template: MC\_CORP1.GDT Printed: 10/21/88

Figure C-31

Project: Boeing Auburn	Log of Boring AGW038
Project Location: Auburn, Washington	Sheet 1 of 1
Project Number: 974009NB	

Date(s) Drilled	4/29/96	Logged By	D Dell'agnese	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc.	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	11.5	Date Measured	04/29/96	Approx. Surface Elevation (feet)	86.8
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Slotted PVC
Comments					



Report: ENW\_14, Project File: C:\PROGRAMS\GINTVA\PROJECTS\BOEING\CP4, Data Template: WC\_CORP1.GDT, Printed: 10/21/98

Figure C-32

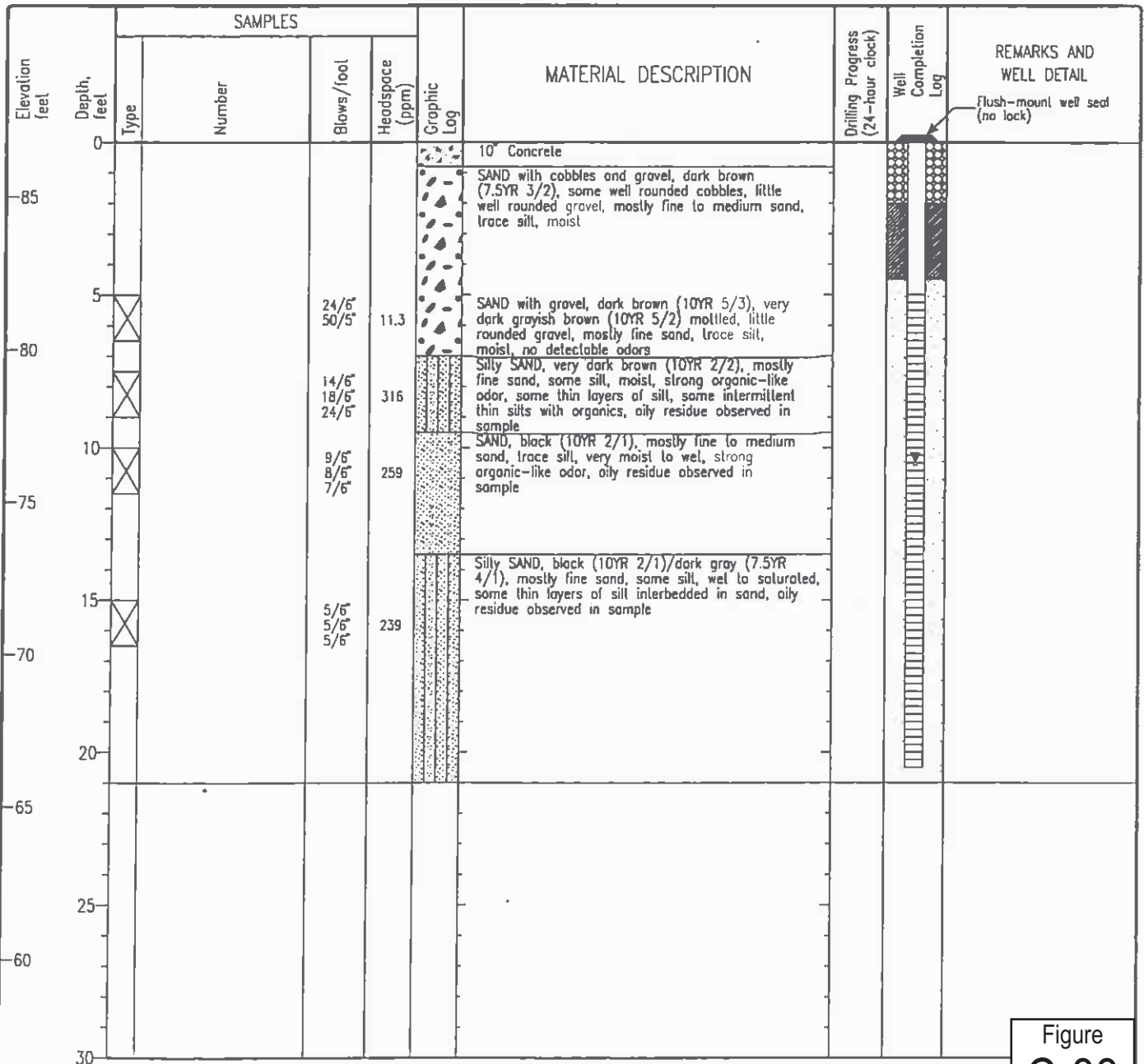


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW039

Sheet 1 of 1

Date(s) Drilled	4/29/96	Logged By	D Dell'agnese	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc.	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	10.5	Date Measured	04/29/96	Approx. Surface Elevation (feet)	86.8
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Slotted PVC
Comments					



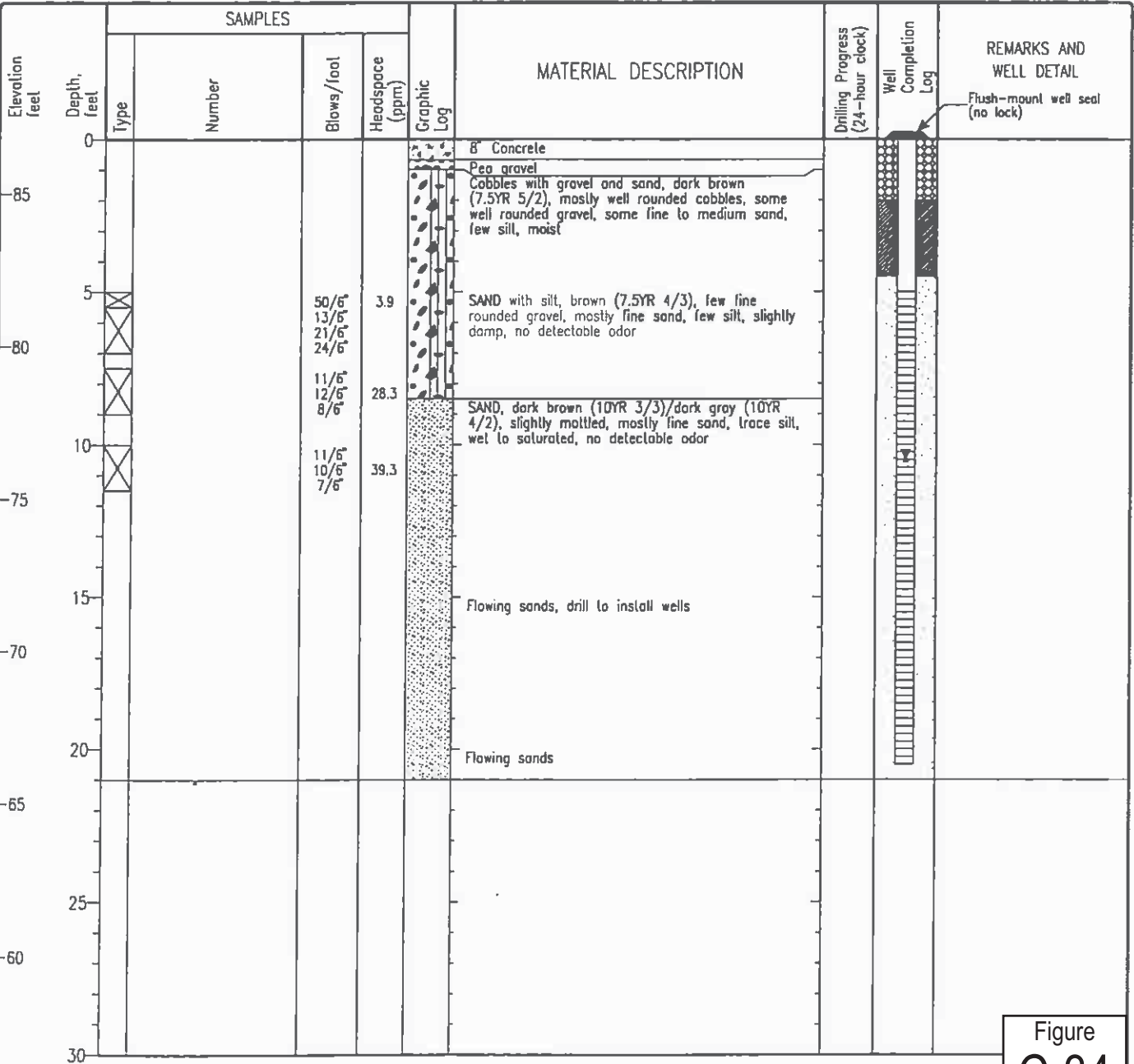
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Figure  
C-33

Project: Boeing Auburn	Log of Boring AGW040
Project Location: Auburn, Washington	Sheet 1 of 1
Project Number: 974009NB	

Date(s) Drilled	4/30/96	Logged By	D Dell'agnese	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc.	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	10.5	Date Measured	04/30/96	Approx. Surface Elevation (feet)	86.8
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Slotted PVC
Comments					



Report ENV\_14; Project File C:\PROGRAM-1\GINTVA\PROJECTS\BOEING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

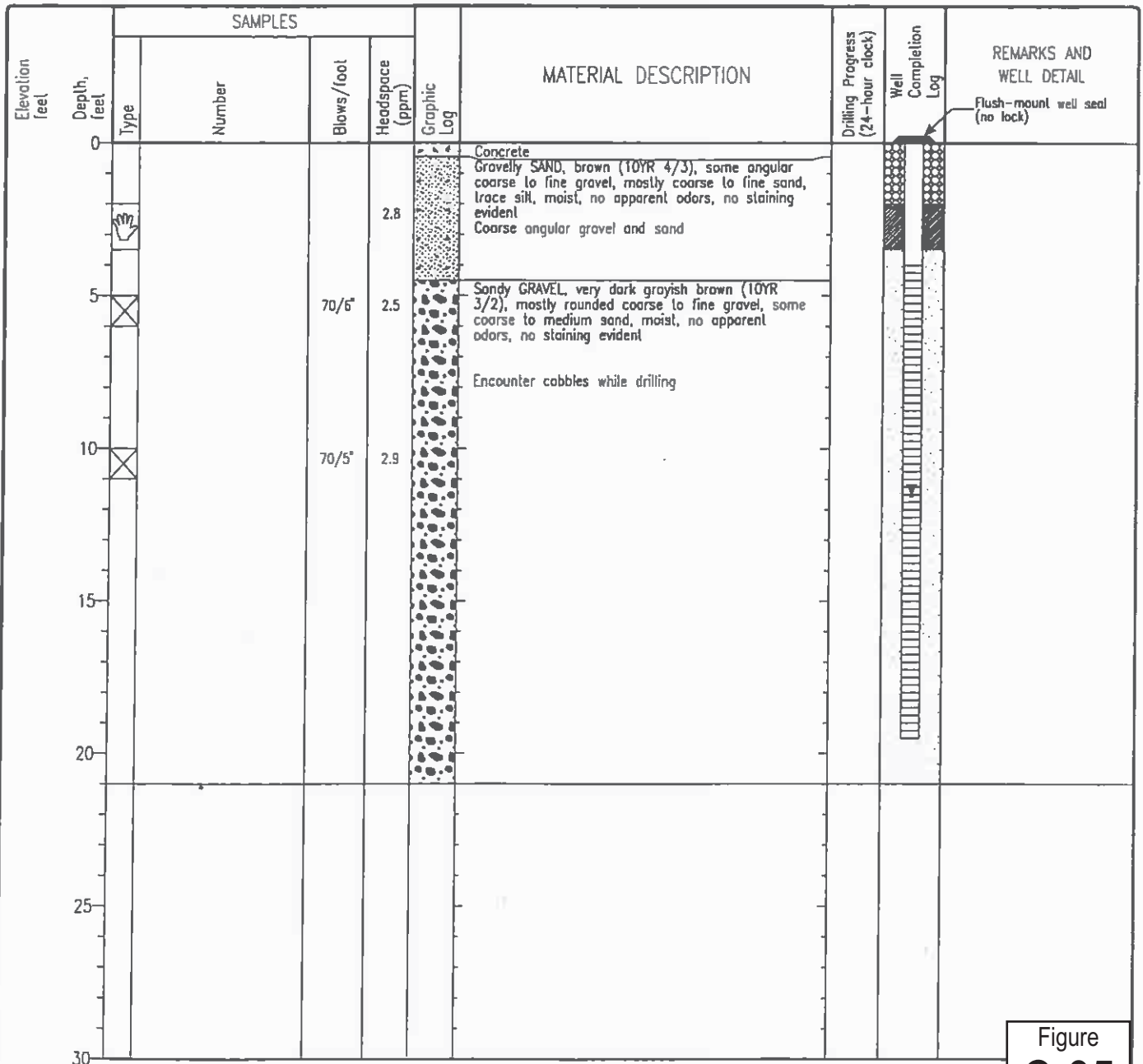
Figure  
C-34

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW041

Sheet 1 of 1

Date(s) Drilled	5/30/96	Logged By	D Dell'agnese	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	11.5	Date Measured	05/30/96	Approx Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Slotted PVC
Comments					

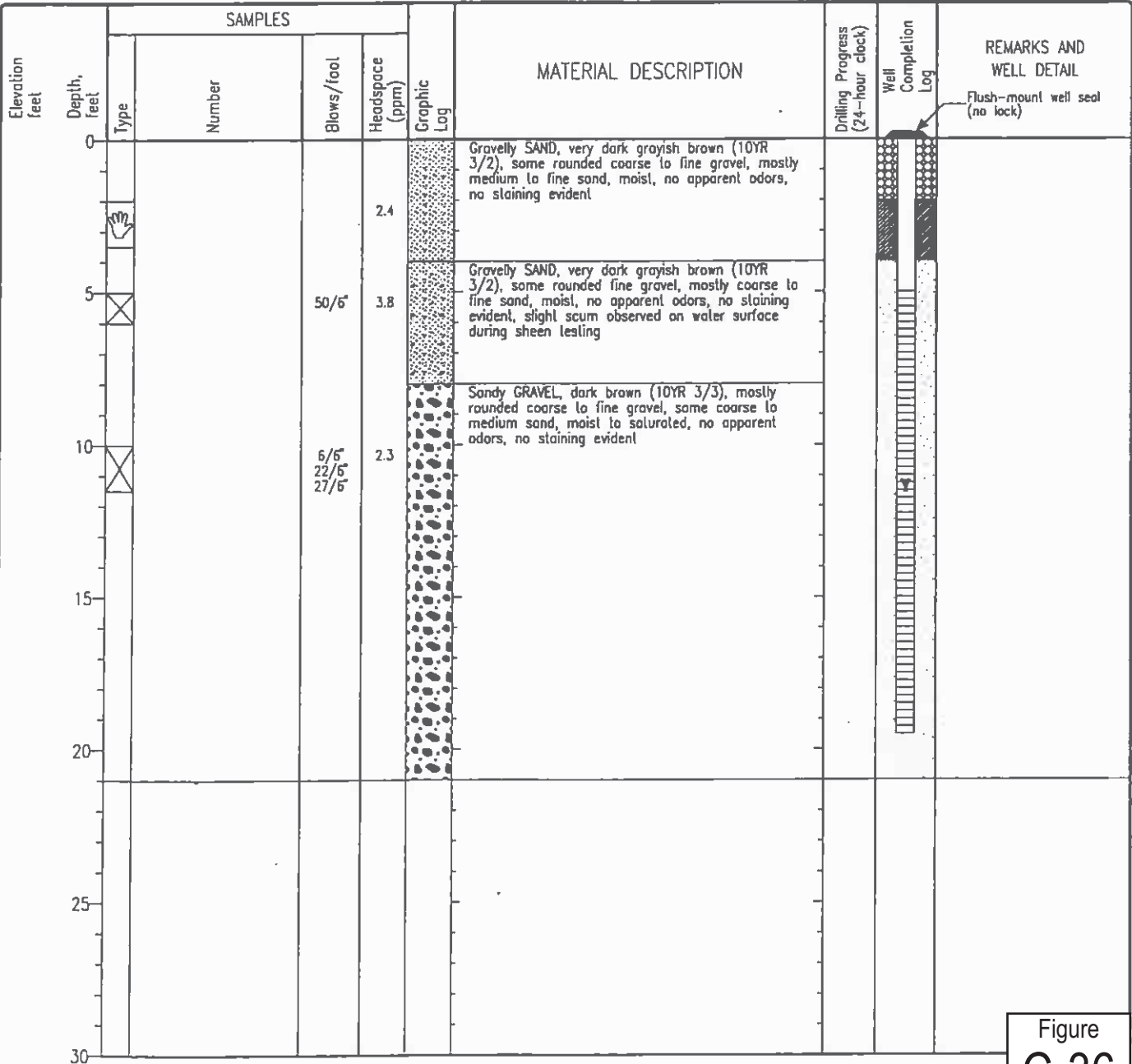


Report: EW\_1A; -project File C:\PROGRAMS\GINTM\PROJECTS\BOEING CP.; Data Template: WC\_CORP1.GDT Printed: 10/21/98

Figure  
C-35

Project: Boeing Auburn	Log of Boring AGW042
Project Location: Auburn, Washington	Sheet 1 of 1
Project Number: 974009NB	

Date(s) Drilled: 5/30/96	Logged By: D Dell'agnese	Checked By:
Drilling Method:	Drill Bit Size/Type:	Total Depth Drilled (feet): 21.0
Drill Rig Type:	Drilling Contractor: Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.): 140lb/30"
Groundwater Level (feet): 11.5	Date Measured: 05/30/96	Approx. Surface Elevation (feet):
Diameter of Hole (inches):	Diameter of Well (inches): 2	Type of Well Casing: PVC
Type of Sand Pack: 10/20 Colorado Silico Sand	Type/Thickness of Seal(s): Bentonite	Screen Perforation: 0.010" Slotted PVC
Comments:		



Report: EW\_14; Project File: C:\PROGRAM-1\GRTM\PROJECTS\BOEING\GP4; Data Template: WC\_CORP1.GDT; Printed: 10/21/98

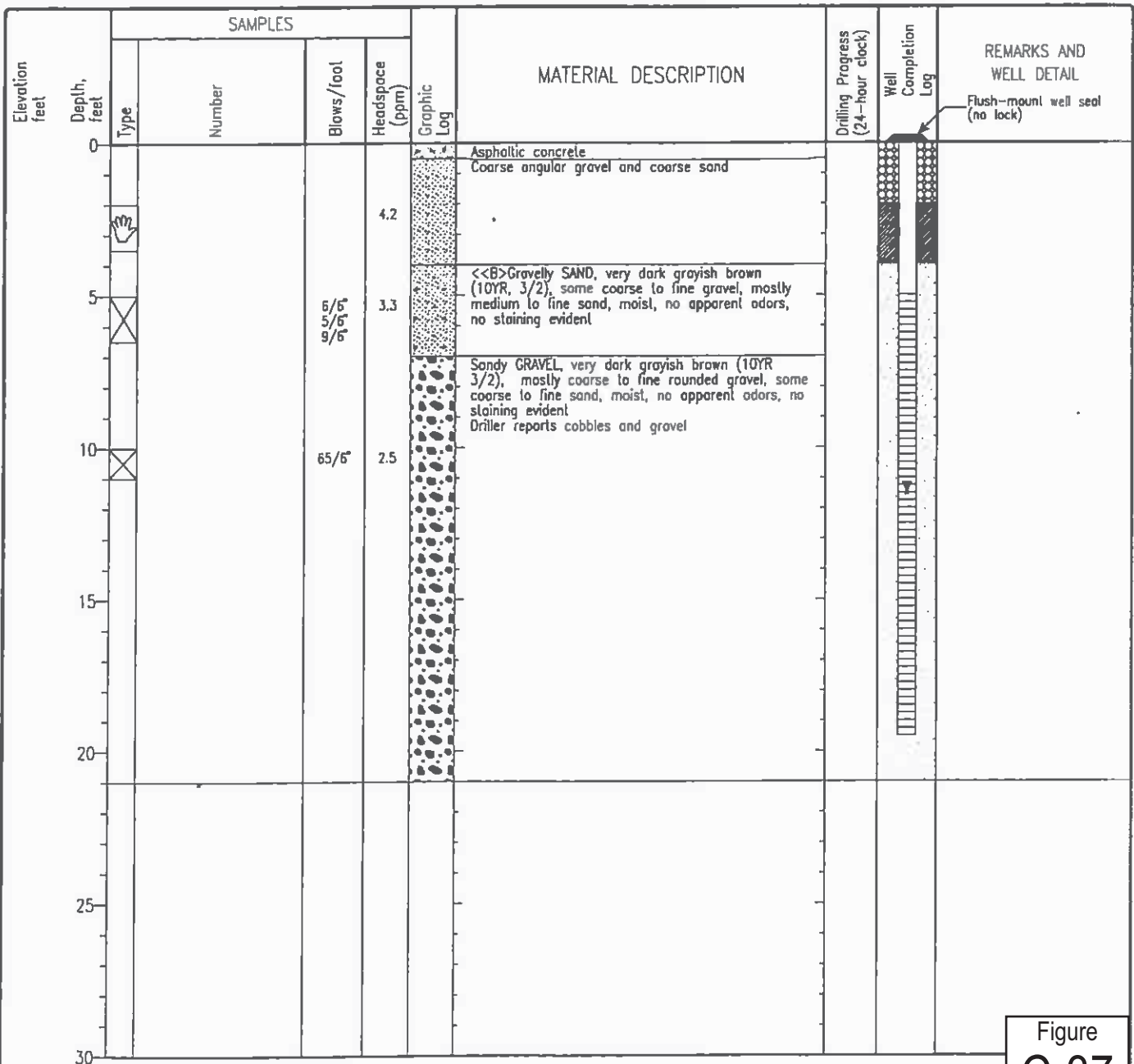
Figure C-36

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW043

Sheet 1 of 1

Date(s) Drilled	5/30/96		Logged By	D Dell'agnese		Checked By		
Drilling Method			Drill Bit Size/Type			Total Depth Drilled (feet)	21.0	
Drill Rig Type			Drilling Contractor	Cascade Drilling, Inc		Hammer Weight/Drop (lbs/in.)	140lb/30"	
Groundwater Level (feet)	11.5		Date Measured	5/30/96		Approx. Surface Elevation (feet)		
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	PVC		Screen Perforation	0.010 slots	
Type of Sand Pack	10/20 Colorado Silica Sand		Type/Thickness of Seal(s)	Bentonite				
Comments								



Report: EWZ\_IA; Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOENG.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

Figure  
C-37

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW044

Sheet 1 of 1

Date(s) Drilled	5/30/96	Logged By	D Dell'agnese	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	11.5	Date Measured	05/30/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Slotted PVC
Comments					

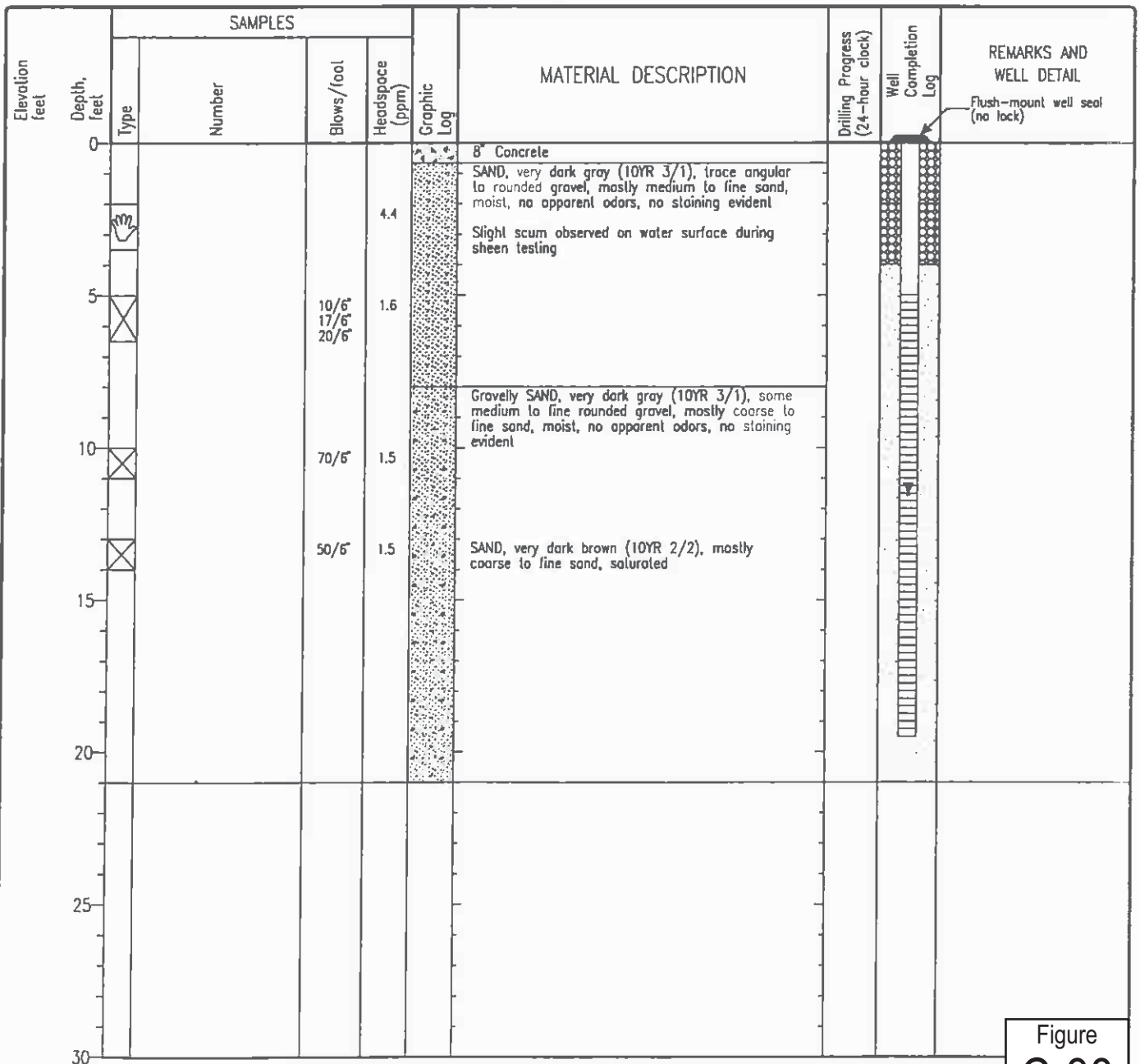


Figure  
C-38

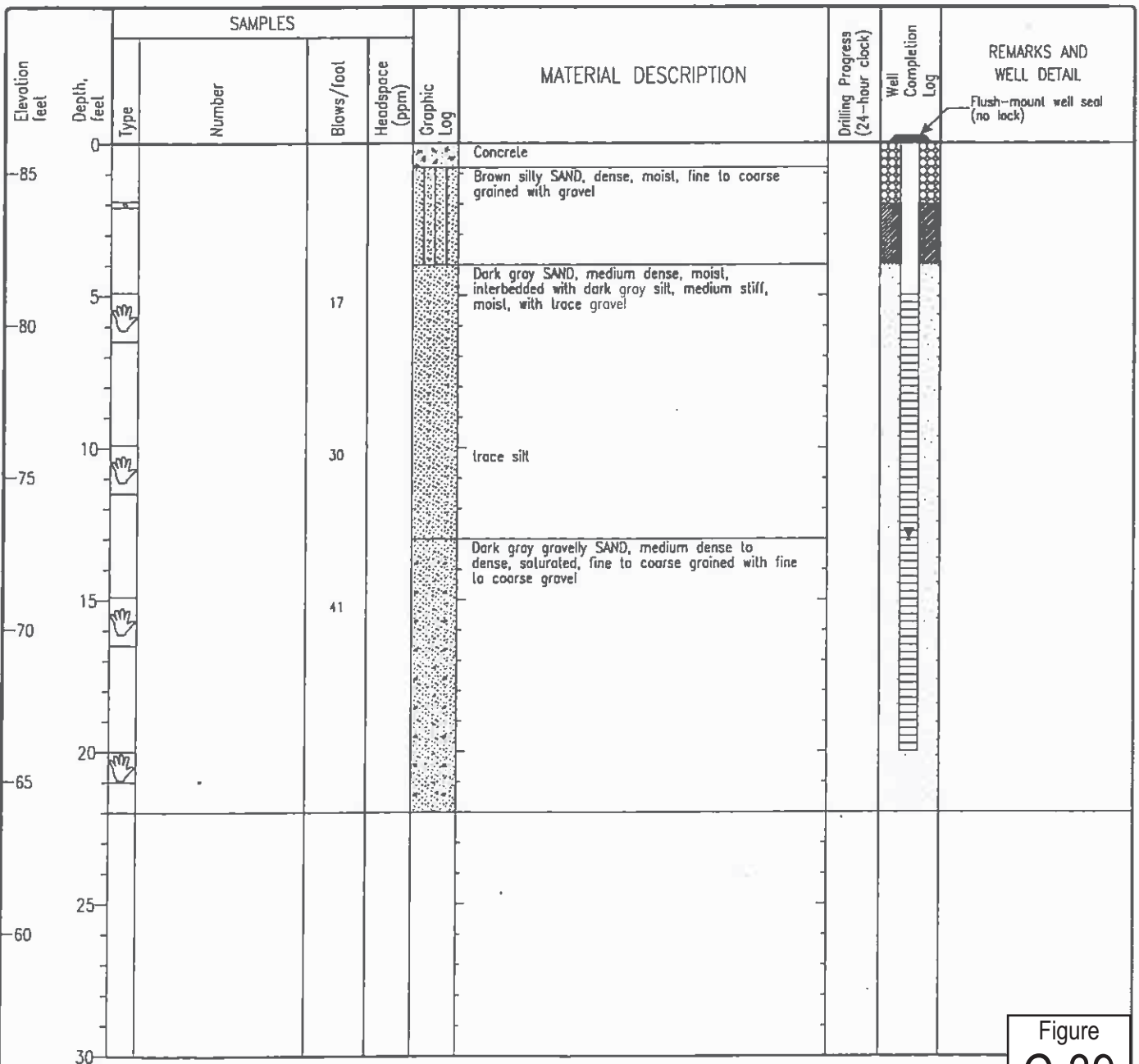


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW046

Sheet 1 of 1

Date(s) Drilled	9/12/96	Logged By		Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	22.0
Drill Rig Type		Drilling Contractor	AGI Technologies	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	13	Date Measured	09/12/96	Approx. Surface Elevation (feet)	86.0
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Loneslar 2-12 Silica Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Slotted
Comments					



Report: ENV-1A; Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOEING\CPJ; Data Template WC\_CDHP1.CDT Printed 10/21/98



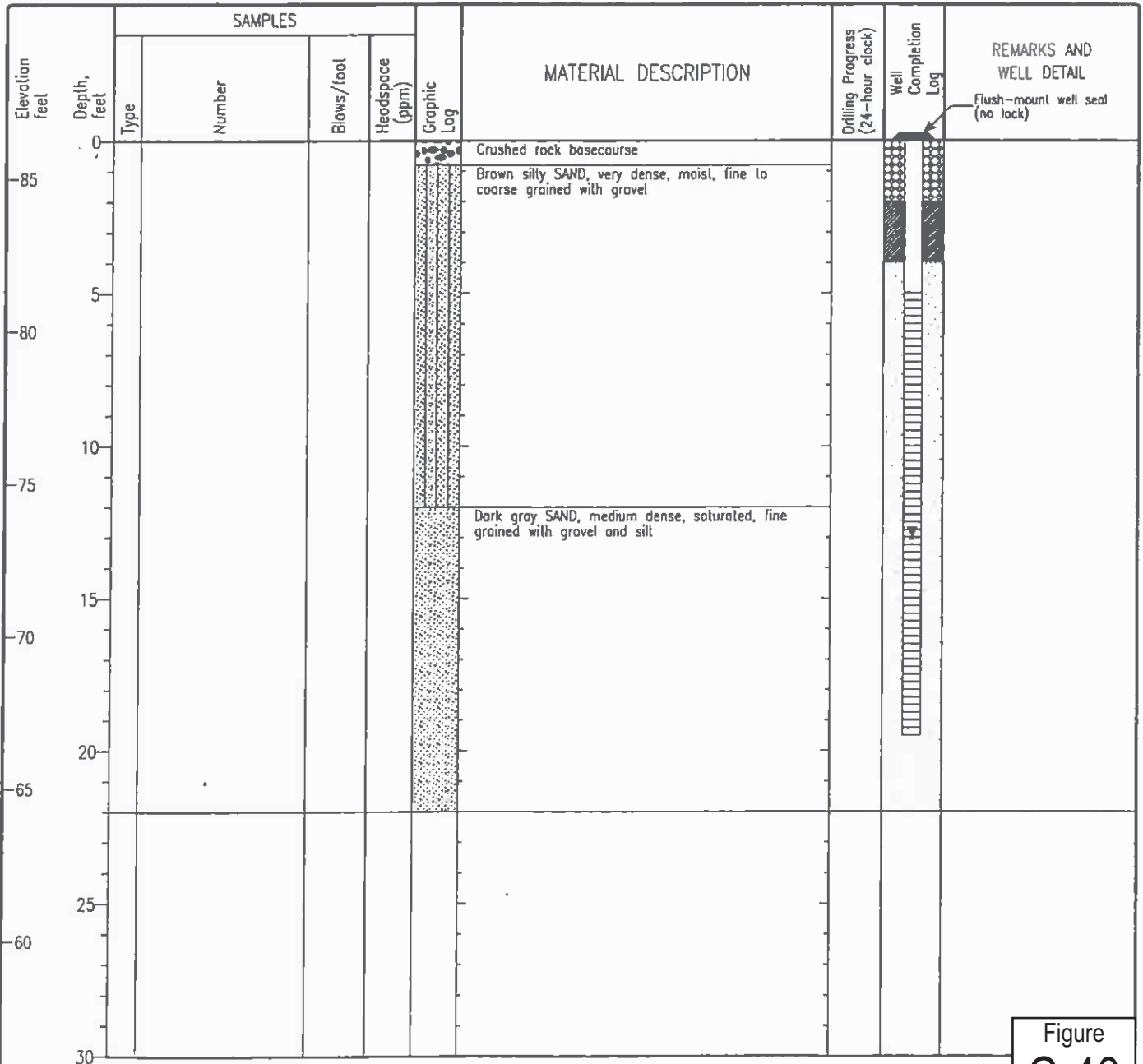
Figure C-39

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW047

Sheet 1 of 1

Date(s) Drilled	9/12/96		Logged By			Checked By		
Drilling Method			Drill Bit Size/Type			Total Depth Drilled (feet)	22.0	
Drill Rig Type			Drilling Contractor	AGI TEchnologies		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	13		Date Measured	09/12/96		Approx. Surface Elevation (feet)	86.2	
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Slotted	
Type of Sand Pack	Lonestar 2-12 Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips				
Comments								



Report: ENW\_1A; Project File: C:\PROGRAMS\GINTW\PROJECTS\BOCING\BPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

Figure  
C-40





Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW048

Sheet 1 of 2

Date(s) Drilled	9/12/96		Logged By			Checked By		
Drilling Method			Drill Bit Size/Type			Total Depth Drilled (feet)	20.0	
Drill Rig Type			Drilling Contractor	AGI Technologies		Hammer Weight/Drop (lbs/in.)	140lb/30"	
Groundwater Level (feet)	14.5		Date Measured	09/12/96		Approx. Surface Elevation (feet)	86.3	
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Slotted	
Type of Sand Pack	Lonestar 2-12 Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips				
Comments								

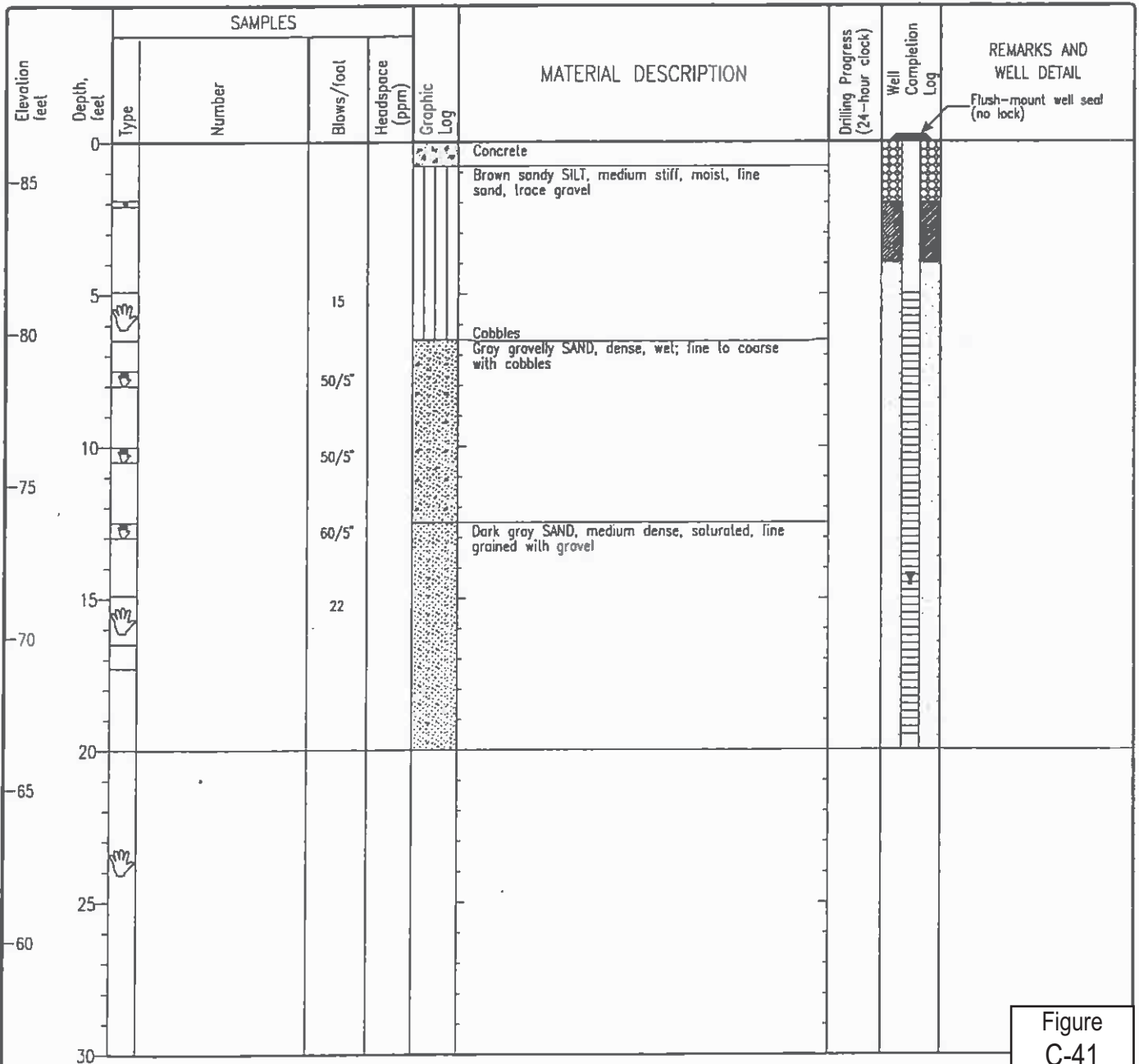


Figure  
C-41  
(1 of 2)



Report: ENV\_1A, Project File: C:\PROGRAMS\1\GINTW\PROJECTS\BOEING.CPJ, Data Template: WC\_CORP1.GDT, Printed: 10/21/98

Equipment CME-Low Clearance Drill Rig

Land Surface Elevation 86.85 feet Date 9/12/96

Blows per Foot

Depth (feet)

Sample

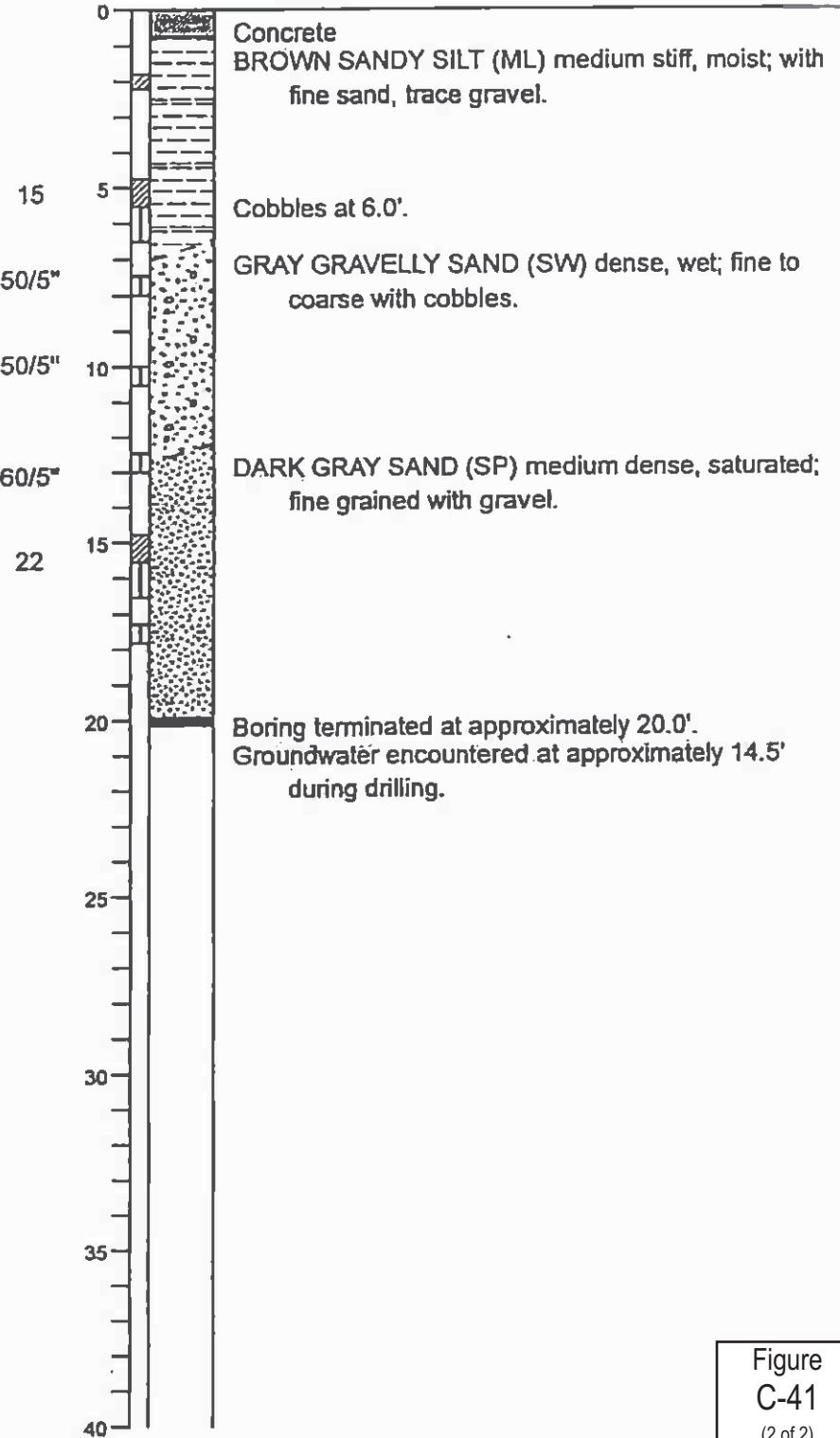
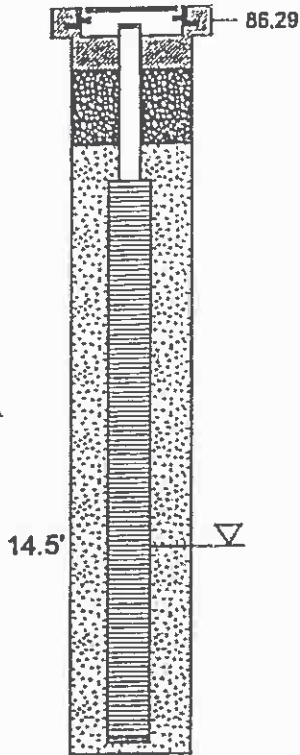


Figure  
C-41  
(2 of 2)

**AGI**  
TECHNOLOGIES

**Log of Monitoring Well AGW-048**  
Boeing/17-07 Building Acid Scrubber Line Leak Assessment  
Auburn, Washington

PLATE  
**B6**

327106lg.cdr

PROJECT NO.  
14,327.106

DRAWN  
ALW

DATE  
01 Oct 96

APPROVED  
*MJC*

REVISED

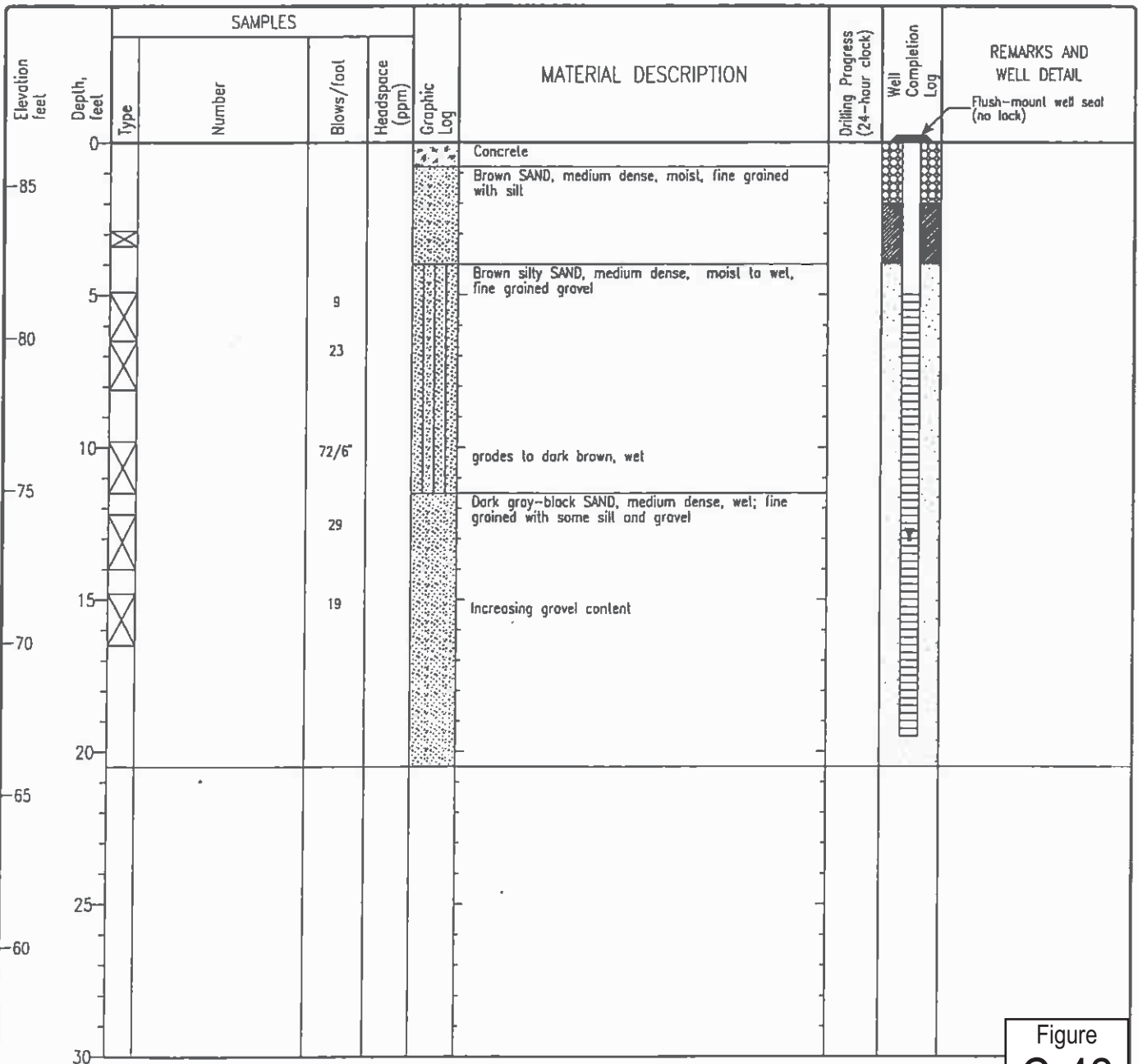
DATE

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW049

Sheet 1 of 1

Date(s) Drilled	9/12/96		Logged By		Checked By	
Drilling Method			Drill Bit Size/Type		Total Depth Drilled (feet)	20.5
Drill Rig Type			Drilling Contractor	AGI Technologies	Hammer Weight/Drop (lbs/in.)	140lb/30"
Groundwater Level (feet)	13		Date Measured	09/12/96	Approx. Surface Elevation (feet)	86.4
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Slotted
Type of Sand Pack	Lonestar 2-12 Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips		
Comments						



Report: ENV\_1A, Project File: C:\PROGRAMS\1\GINTM\PROJECTS\BOEING GP-1, Data Template: WC\_CORP1.GDT, Printed: 10/22/98

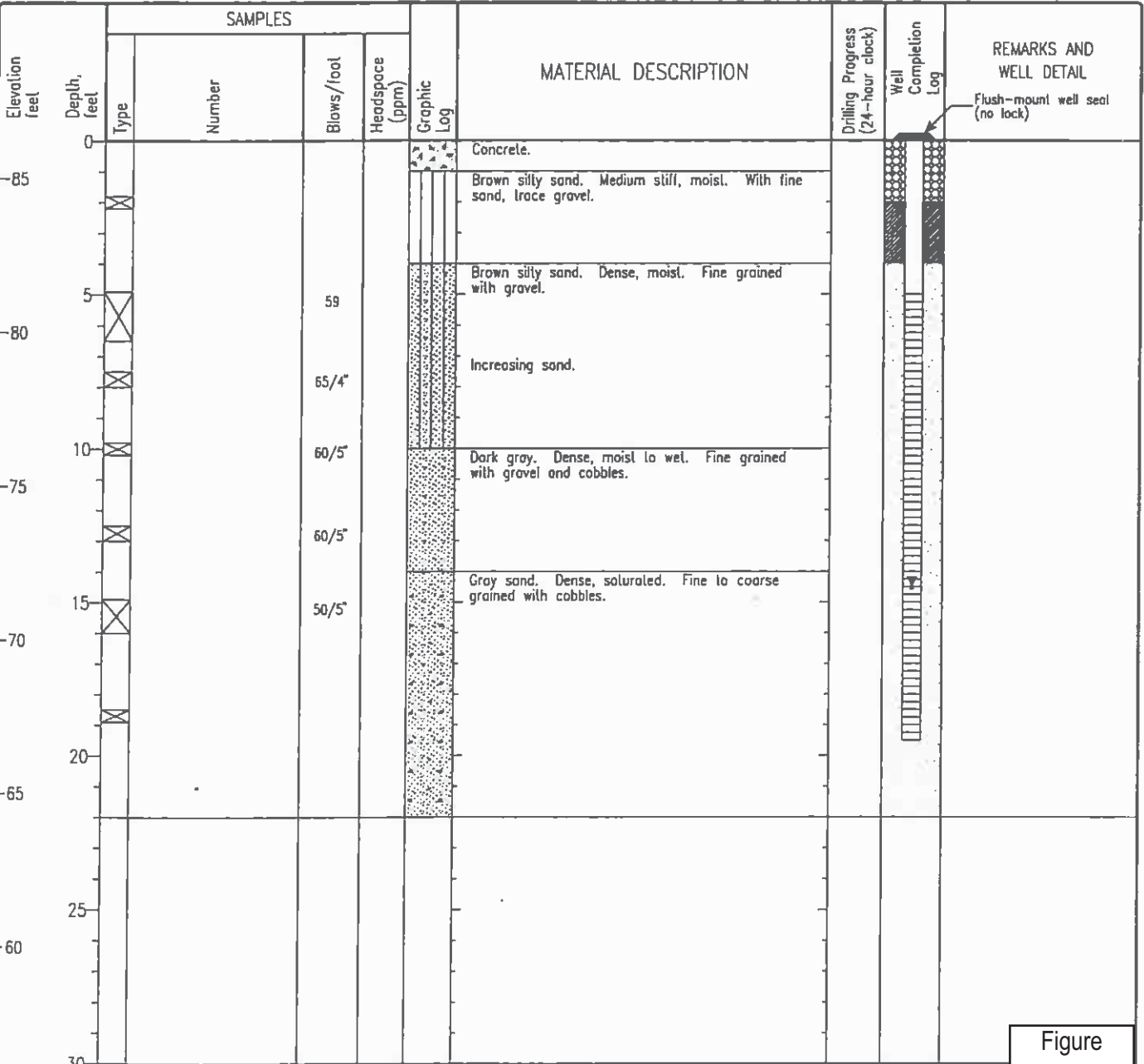
Figure C-42



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW050  
 Sheet 1 of 1

Date(s) Drilled	9/12/96	Logged By	Checked By
Drilling Method		Drill Bit Size/Type	Total Depth Drilled (feet) 22.0
Drill Rig Type		Drilling Contractor AGI Technologies	Hammer Weight/Drop (lbs/in.) 140lb/30"
Groundwater Level (feet)	14.5	Date Measured 09/12/96	Approx. Surface Elevation (feet) 86.2
Diameter of Hole (inches)	Diameter of Well (inches) 2	Type of Well Casing SCH 40 PVC	Screen Perforation 0.010" Slotted
Type of Sand Pack	Loneslar 2-12 Silica Sand	Type/Thickness of Seal(s) Bentonite Chips	
Comments			



Report: ENW\_1A, Project File: C:\PROGRAMS\1\GINTWA\PROJECTS\BOEING.GPJ, Data Template: WC\_CORP1.DDT, Printed: 10/22/98

Figure C-43

# AGW053R

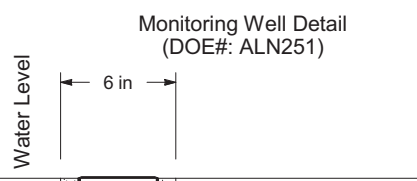
## SAMPLE DATA

## SOIL PROFILE

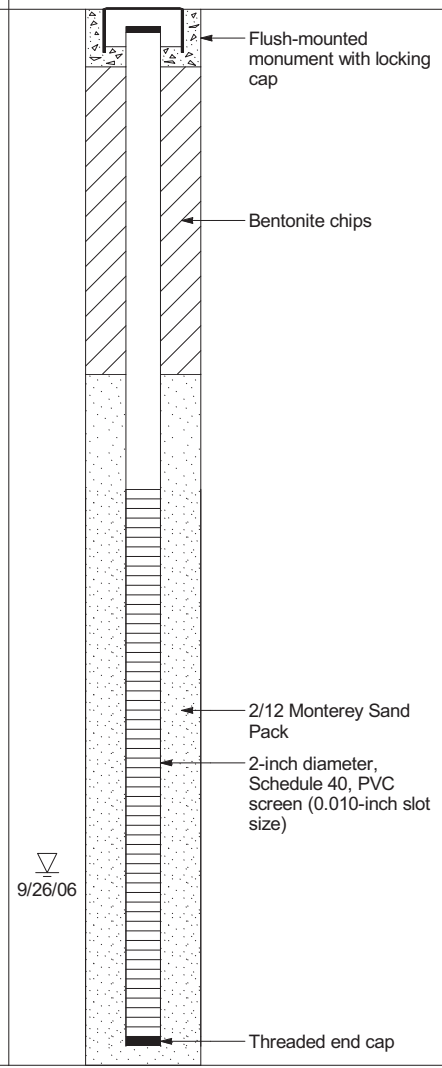
## GROUNDWATER

Depth (ft)

Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>91.42</u> Drilled By: <u>Cascade Drilling Inc.</u>
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For lithology see well log for AGW053  
(Decommissioned)



Boring Completed 09/25/06  
Total Depth of Boring = 27.5 ft.

Monitoring Well Completed 09/25/06  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 90.98 ft.  
Total Depth of Monitoring Well = 27.0 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. DOE Unique Well Number: ALN251

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW053R

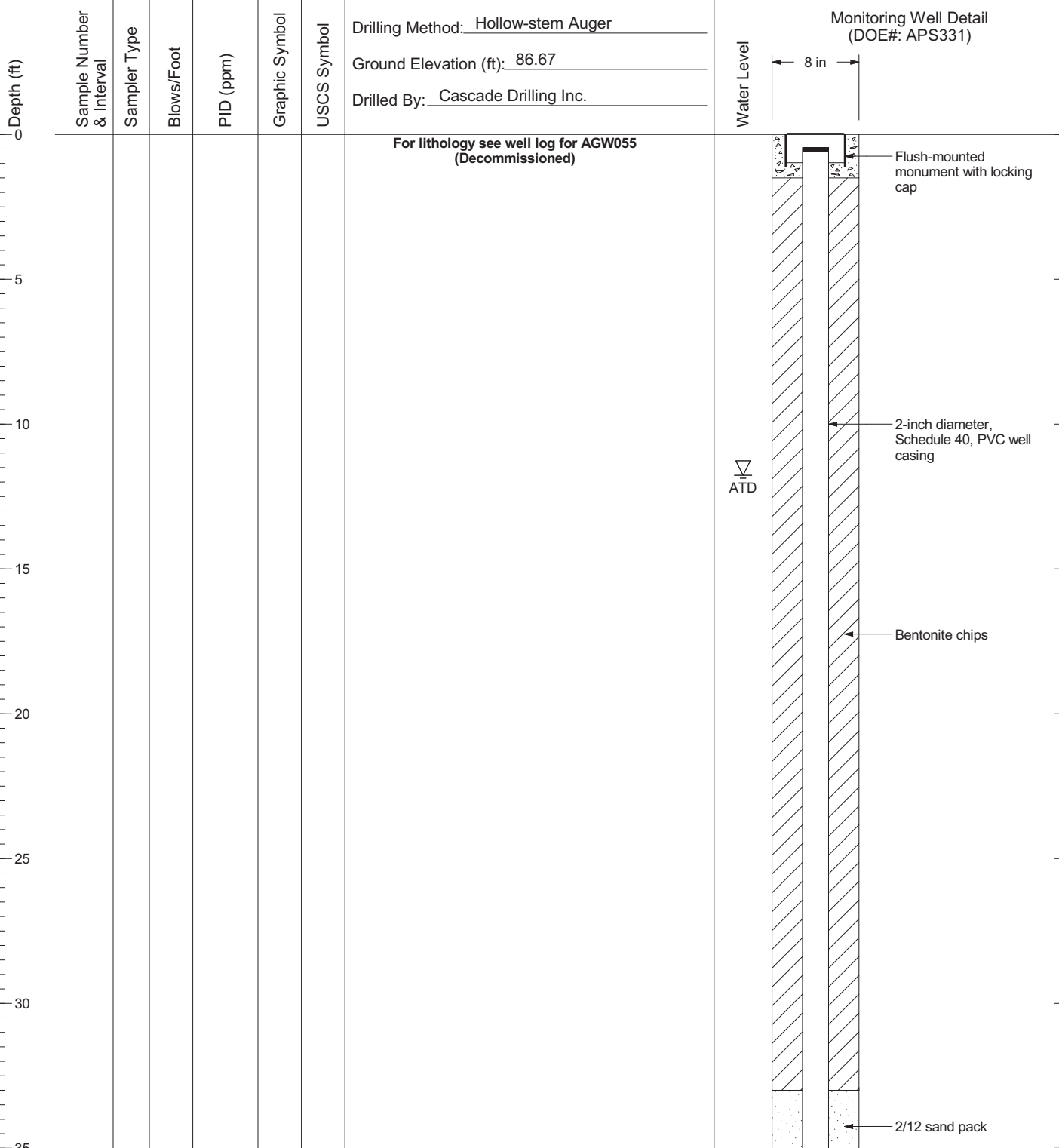
Figure  
**C-44**

# AGW055R

## 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. DOE Unique Well Number: APS331

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW055R

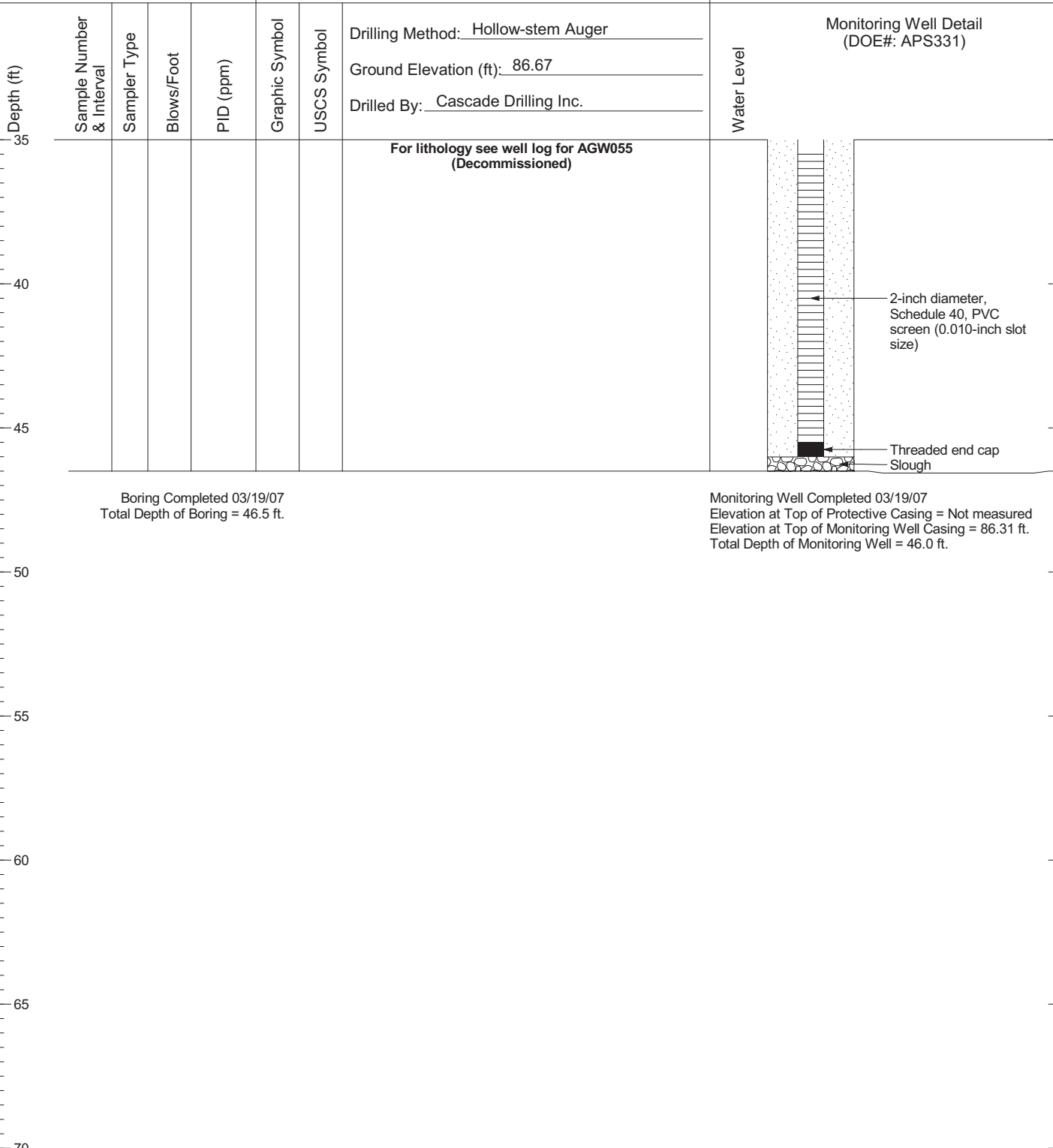
Figure  
C-45  
(1 of 2)

# AGW055R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 03/19/07  
Total Depth of Boring = 46.5 ft.

Monitoring Well Completed 03/19/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.31 ft.  
Total Depth of Monitoring Well = 46.0 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. DOE Unique Well Number: APS331

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW055R

Figure  
C-45  
(2 of 2)

# AGW057R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)

Sample Number & Interval

Sampler Type

Blows/Foot

PID (ppm)

Graphic Symbol

USCS Symbol

Drilling Method: Hollow-stem Auger

Ground Elevation (ft): 90.04

Drilled By: Cascade Drilling Inc.

Monitoring Well Detail  
(DOE#: APS379)

Water Level

8 in

0

5

10

15

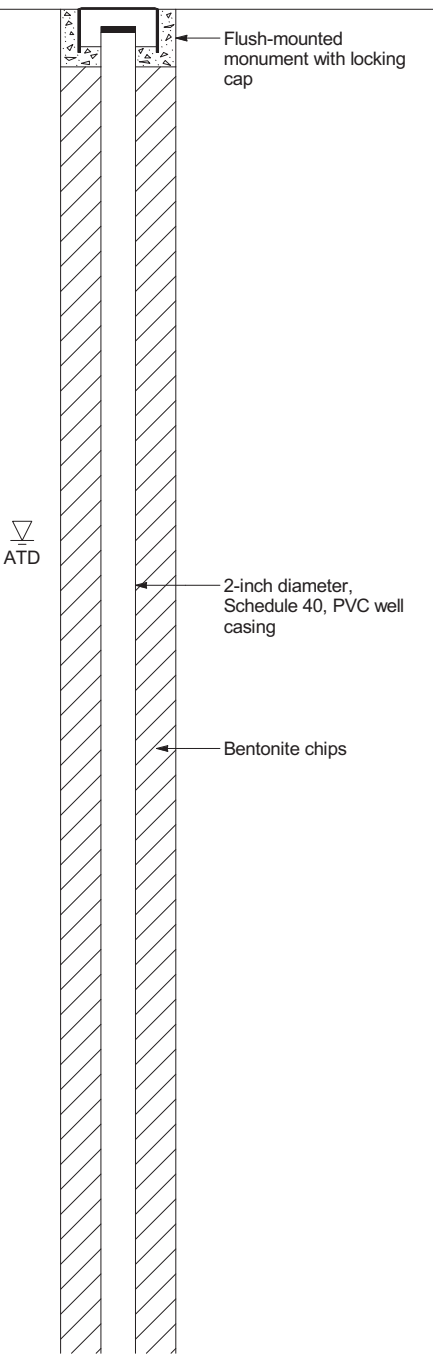
20

25

30

35

**For lithology see well log for AGW057 (Decommissioned)**



- 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. DOE Unique Well Number: APS379

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW057R

Figure  
C-46  
(1 of 2)

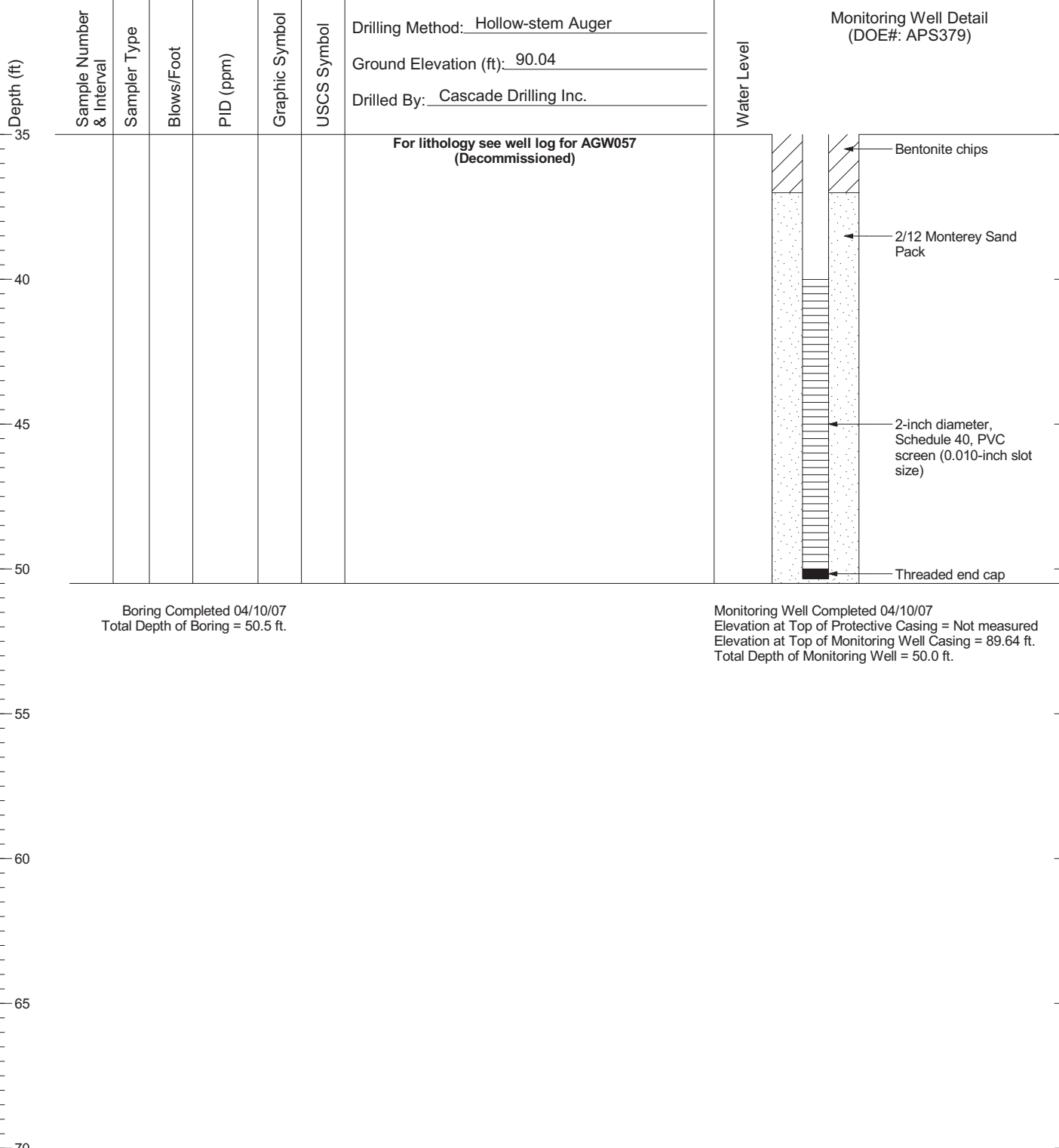


# AGW057R

## 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. DOE Unique Well Number: APS379

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW057R

Figure  
C-46  
(2 of 2)

# AGW058R

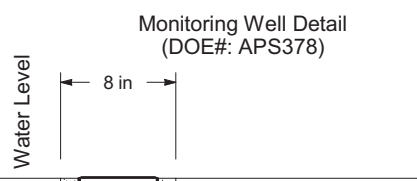
## SAMPLE DATA

## SOIL PROFILE

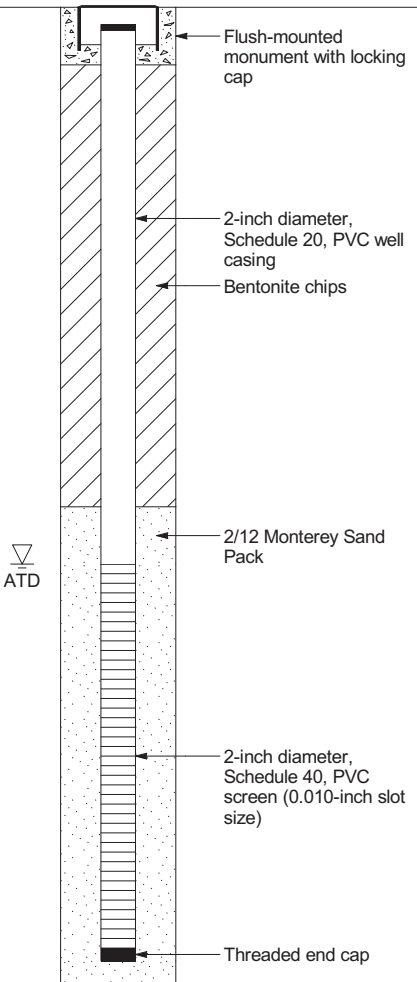
## GROUNDWATER

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>90.24</u> Drilled By: <u>Cascade Drilling Inc.</u>
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**For lithology see well log for AGW058 (Decommissioned)**



Boring Completed 04/10/07  
Total Depth of Boring = 25.5 ft.

Monitoring Well Completed 04/10/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 89.92 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: APS378

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW058R

Figure  
**C-47**

# AGW059R

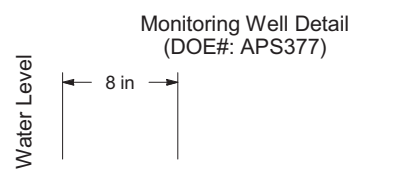
## SAMPLE DATA

## SOIL PROFILE

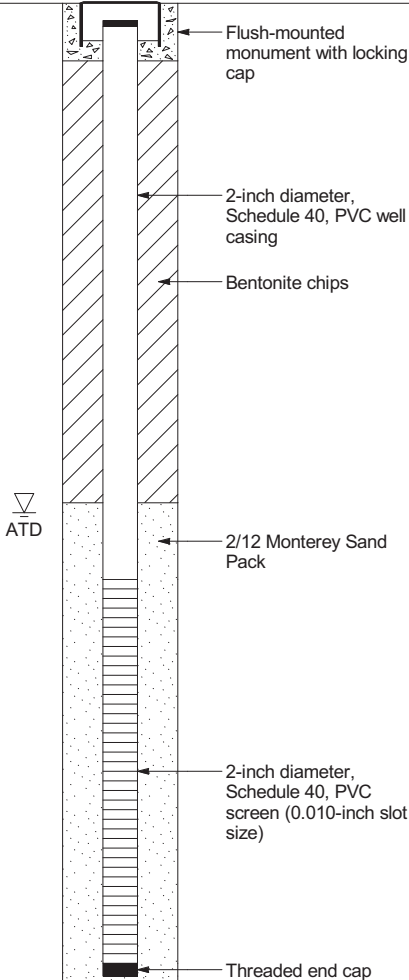
## GROUNDWATER

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>89.58</u> Drilled By: <u>Cascade Drilling Inc.</u>
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For lithology see well log for AGW059  
(Decommissioned)



Boring Completed 04/10/07  
Total Depth of Boring = 25.5 ft.

Monitoring Well Completed 04/10/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 89.23 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: APS377

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW059R

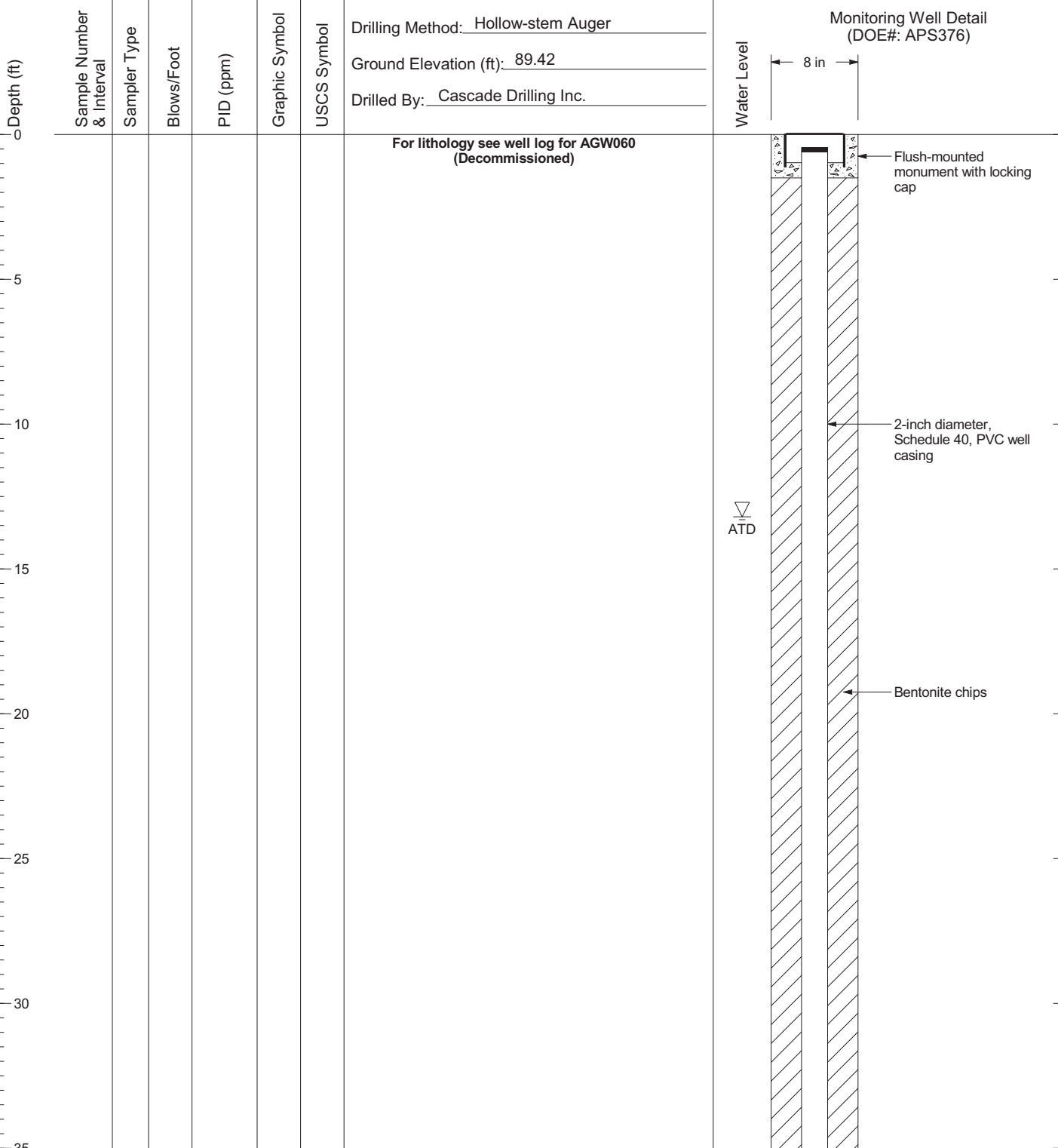
Figure  
**C-48**

# AGW060R

## 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. DOE Unique Well Number: APS376

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW060R

Figure  
C-49  
(1 of 2)

# AGW060R

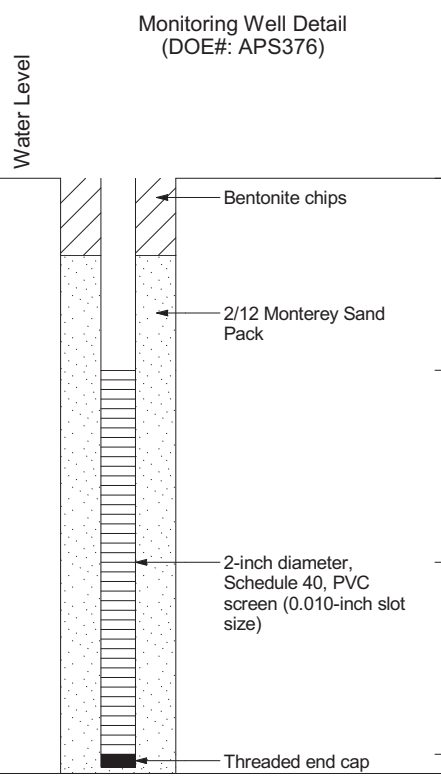
## SAMPLE DATA

## 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>89.42</u> Drilled By: <u>Cascade Drilling Inc.</u>
--------------------------	--------------	------------	-----------	----------------	-------------	--



For lithology see well log for AGW060 (Decommissioned)

Boring Completed 04/09/07  
Total Depth of Boring = 50.5 ft.

Monitoring Well Completed 04/09/07  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 89.11 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: APS376

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW060R

Figure  
C-49  
(2 of 2)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW064

Sheet 1 of 1

Date(s) Drilled	12/2/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	27.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17	Date Measured	12/02/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	Diameter of Well (inches) 2	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Type of Sand Pack	10/20 Sand	Type/Thickness of Seal(s)	Bentonite Chips		
Comments					

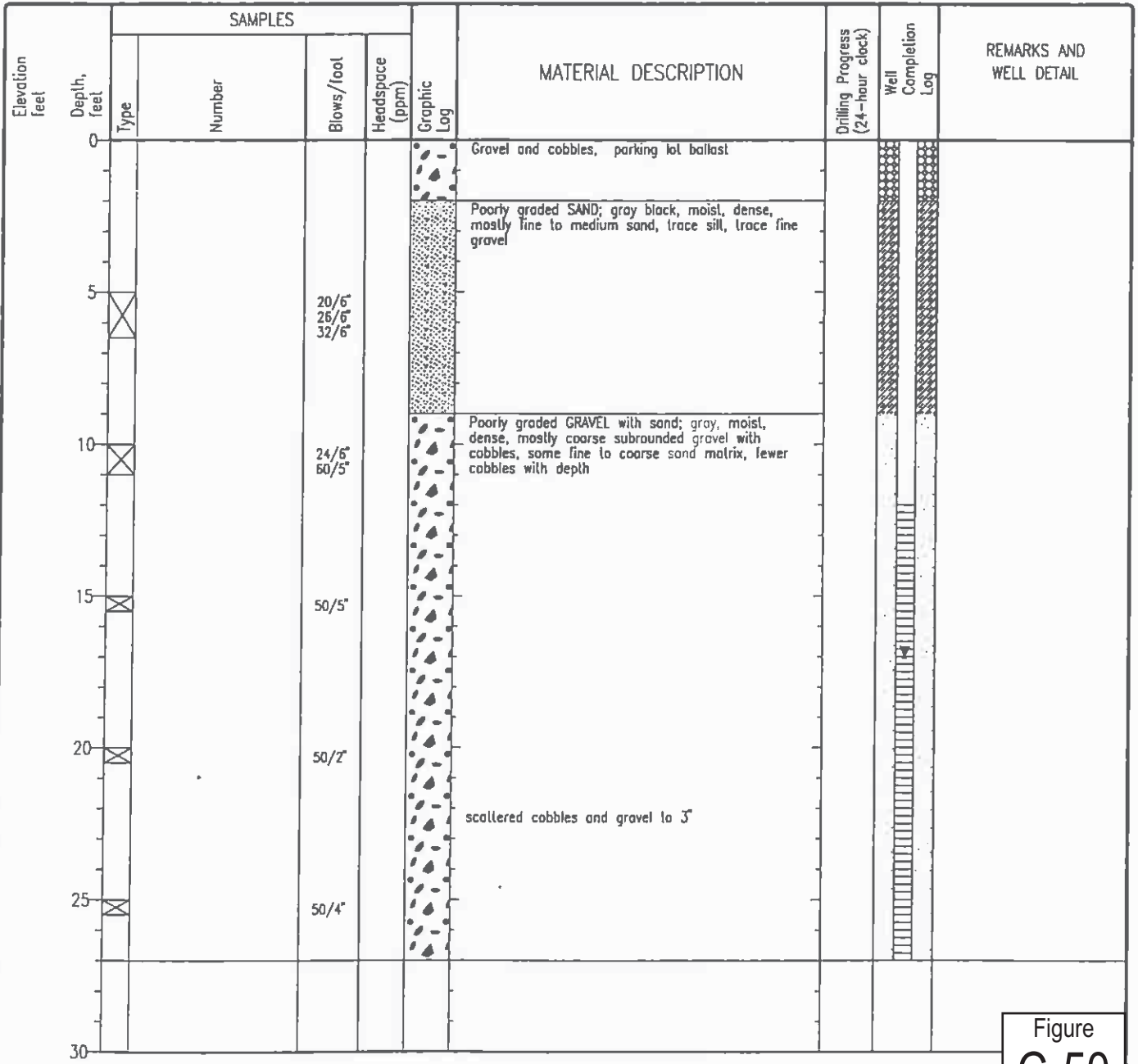


Figure C-50

Report: ENR\_1A Project File: C:\PROGRAMS\1\GINTM\PROJECTS\BOEING.GPJ; Data Template WC\_COMP1.GDT Printed 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW065

Sheet 1 of 1

Date(s) Drilled	12/2/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	27.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17	Date Measured	12/02/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	Diameter of Well (inches) 2	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Type of Sand Pack	10/20 Sand	Type/Thickness of Seal(s)	Bentonite Chips		
Comments					

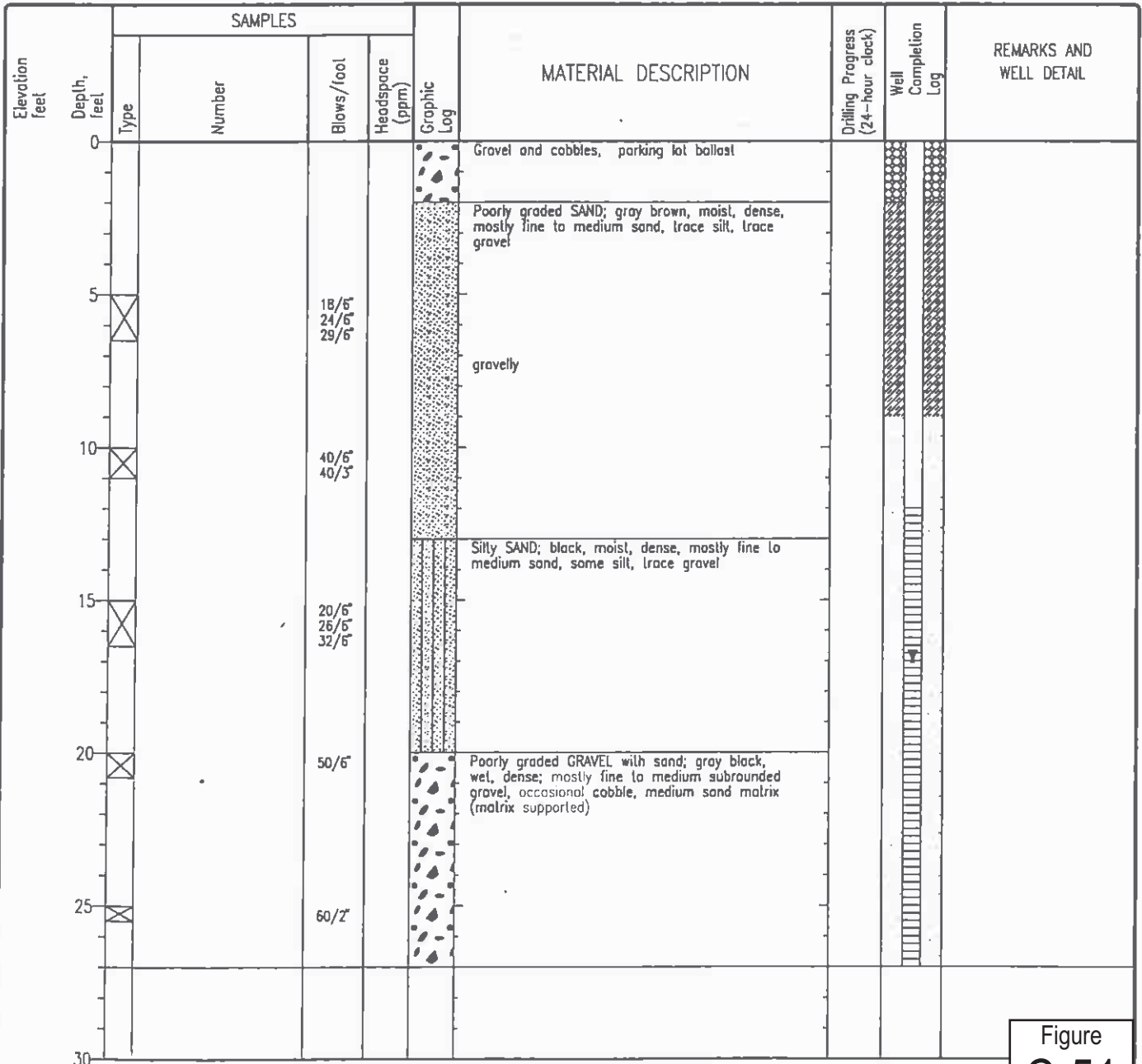


Figure  
**C-51**

Report: EW\_1A...project file: C:\PROGRAMS\GINTWA\PROJECTS\BOEING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW066

Sheet 1 of 1

Date(s) Drilled	12/2/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	15.5	Date Measured	12/02/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

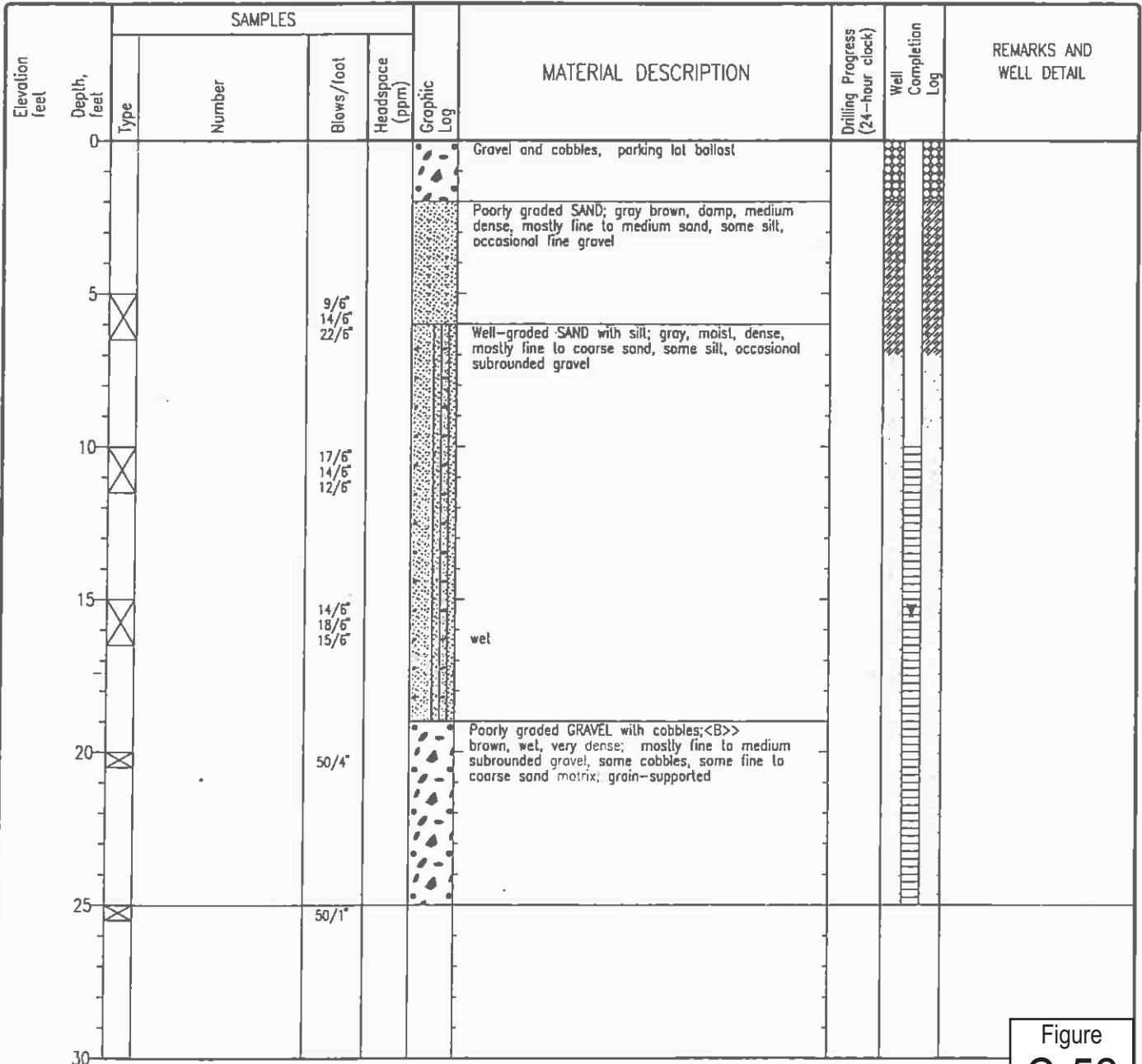


Figure  
C-52

Report: ENW\_1A, Project File: C:\PROGRAMS\1\GINTW\PROJECTS\BOEING.OPJ; Data Template: WC\_CORP1.GDT Printed: 10/22/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW067

Sheet 1 of 1

Date(s) Drilled	12/3/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs./in.)	
Groundwater Level (feet)	15.5	Date Measured	12/03/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

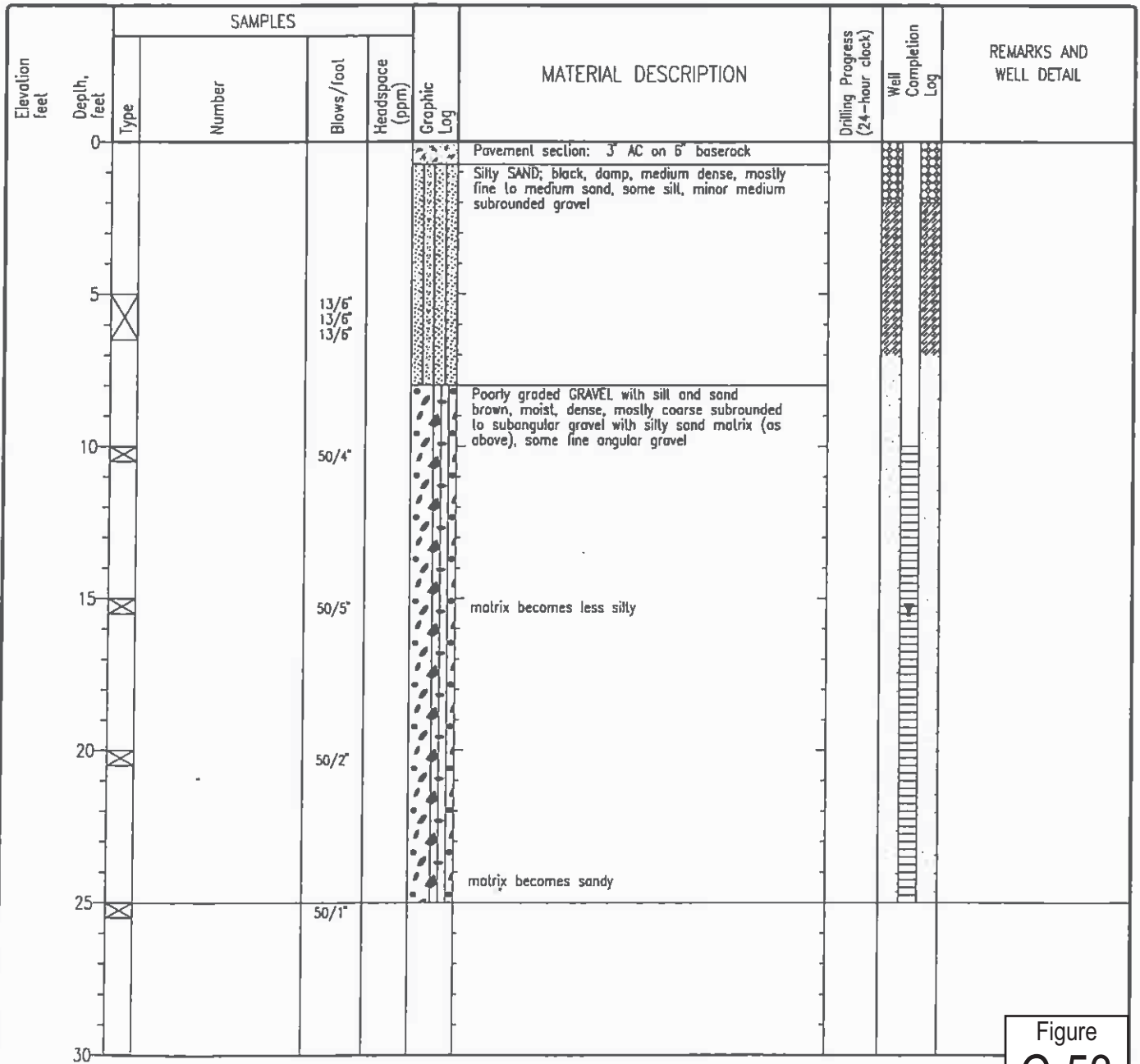


Figure C-53

Report: EW\_1A - Project File: C:\PROGRAM-1\GWINA\PROJECTS\BOEING\GPI\_ Data Template\MC\_CORP1.GDT Printed: 10/22/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW068

Sheet 1 of 1

Date(s) Drilled	12/3/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	27.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	17.2	Date Measured	12/03/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

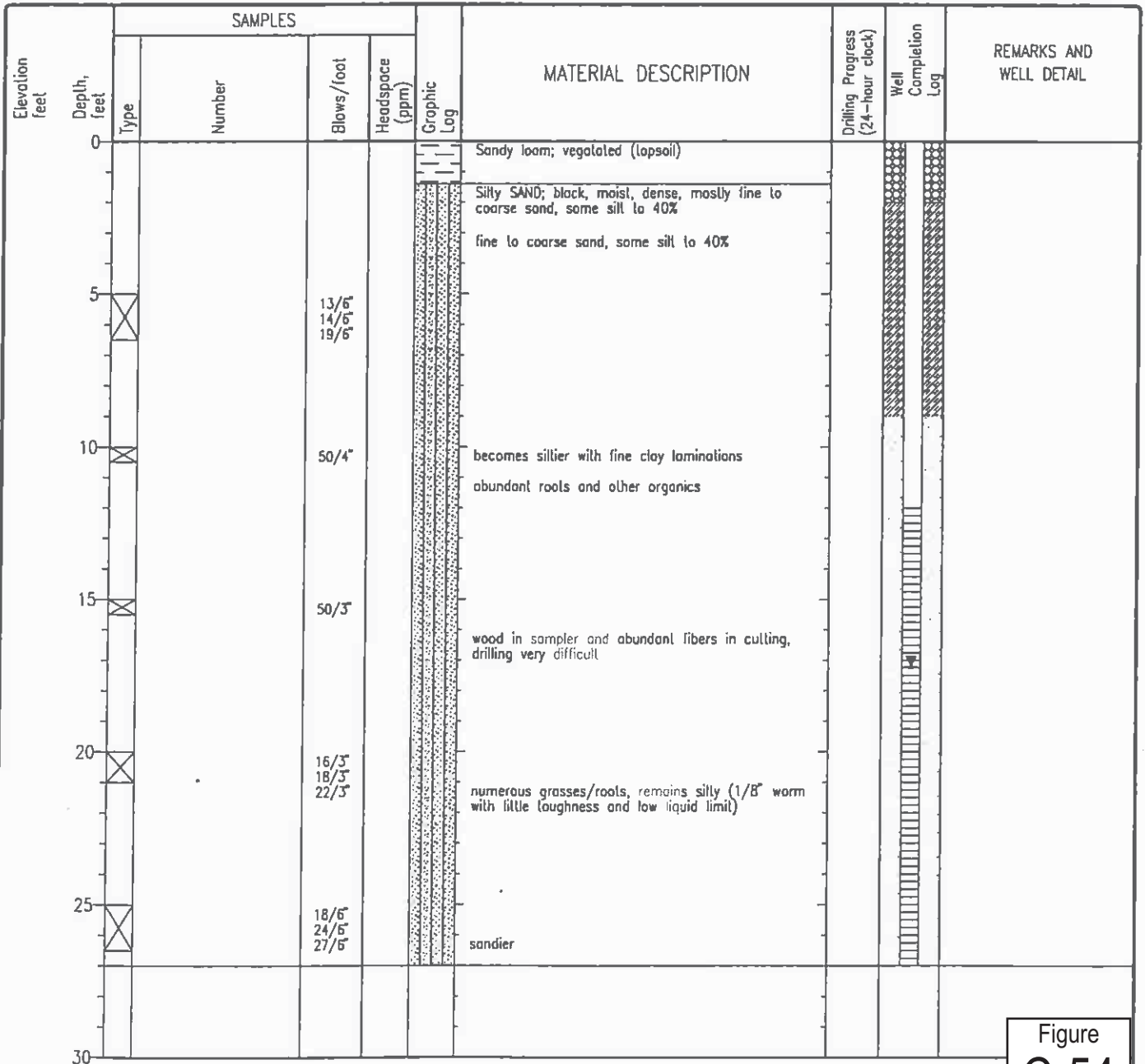


Figure C-54



Report: EW\_1A, Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOEING\GP.J, Data Template: WC\_CORP1.GDT, Printed: 10/27/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW069  
 Sheet 1 of 1

Date(s) Drilled	12/3/96	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	27.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	15.5	Date Measured	12/03/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC	Screen Perforation
Type of Sand Pack	10/20 Sand	Type/Thickness of Seal(s)	Bentonite Chips		0.010" Factory Slotted SCH 40 PVC
Comments					

Elevation feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot					
0						Pavement section: 3" AC on 6" baserock			
5		X		6/6 3/6 2/6		Well-graded SAND; brown, damp, dense; mostly fine to coarse subangular sand, minor fines			
10		X		13/6 15/6 15/6		Silty SAND; brown, damp, dense; mostly fine sand, some (40%) silt			
15		X		15/6 18/6 19/6		Poorly graded SAND with silt; block, damp, dense, mostly fine to medium sand, some silt			
20		X		22/6 23/6 27/6		gravelly with large wood fragments, ravel appears to be matrix supported (possible point bar deposit)			
25		X		20/6 25/6 28/6					
30									

Figure C-55

Report: ENW\_IA\_1 - Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOEING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/22/98

# Boring & Well Construction Log

Kennedy/Jenks Consultant:

BORING LOCATION: 800 FEET NORTH OF NW CORNER 17-05		Boring/Well Name: AGW071, AGW072, AGW073	
DRILLING COMPANY: CASCADE DRILLING		DRILLER: STEVE ZIMMERMAN	
DRILLING METHOD: AIR ROTARY W/ UNDER REAMER/TRICONE		Project Name: BCAG-AUB AQ. TEST	
ISOLATION CASING		Project Number: 956102.05	
BLANK CASING		ELEVATION AND DATUM	
PERFORATED CASING		TOTAL DEPTH: 108.0	
SIZE AND TYPE OF FILTER PACK		DATE STARTED: 12/13/1996	
SEAL		DATE COMPLETED: 12/15/1996	
GROUT		INITIAL WATER DEPTH (FT): 15.0	
<b>TRIPLE COMPLETION PIEZOMETER SEE BELOW FOR COMPLETION DETAILS</b>		LOGGED BY: T.C. MORIN	
		SAMPLING METHODS: GRAB (CYCLONE)	
		WELL COMPLETION: <input checked="" type="checkbox"/> SURFACE HOUSING	
		<input type="checkbox"/> STAND PIPE _____ FT.	

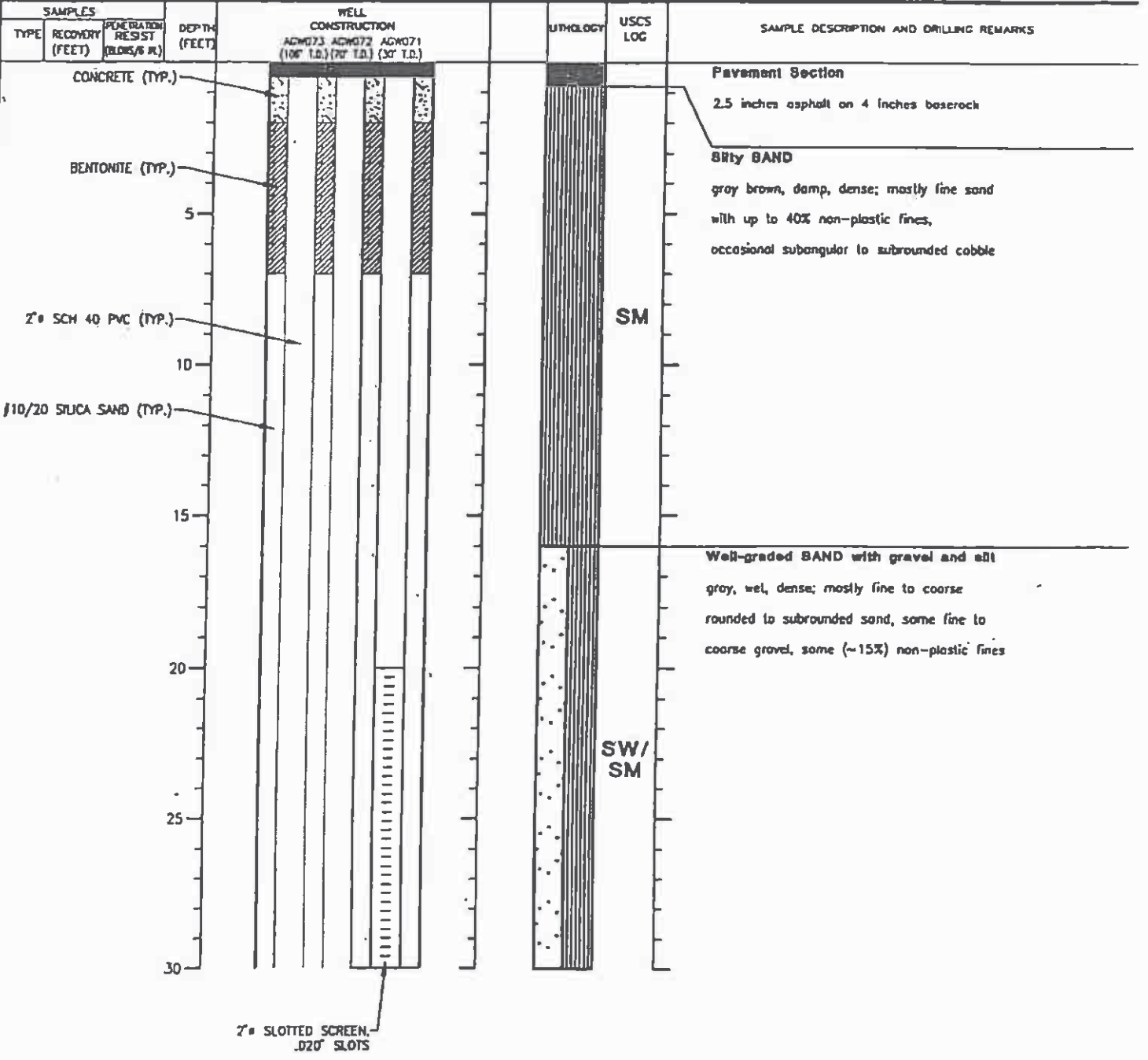


Figure C-56 (1 of 3)

# Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name BCAG-AUB AQ. TEST

Project Number 956102.05

Boring/Well Name 071, 072, 073

SAMPLES			DEPTH (FEET)	WELL CONSTRUCTION			LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOVERY (FEET)	PENETRATION RESIST (BLKS/A W.)		AGW073 (106" I.D.)	AGW072 (70" I.D.)				
			35				GW/ GM	Well-graded GRAVEL with silt and sand gray, wet, dense; fine to coarse, rounded to subrounded gravel, some fine to coarse sand, some non-plastic fines	
			40					continues as Well Graded Gravel with occasional cobbles; gravels up to 3/4" (subrounded to subangular); mostly dioritic and granitic in composition with some rhyolites; sand matrix consist of fine to coarse subangular sand, minor non-plastic fines	
			45				GW	Well-graded GRAVEL with sand gray, wet, dense; fine to coarse with occasional cobbles, rounded to subrounded gravel, some fine to coarse sand	
			50					At 53 feet, wood in cuttings (branches to 1-1/2" in diameter)	
			55					Gravelly/Cobby zone from about 60 to 70 ft bgs.; minimum grain size is medium sand	
			60						
			65						
			70						

Figure  
C-56  
(2 of 3)

# Boring & Well Construction Log

Kennedy/Jenks Consultant

Project Name BCAG-AUB AQ. TEST

Project Number 956102.05

Boring/Well Name 071, 072, 073

SAMPLES			DEPTH (FEET)	WELL CONSTRUCTION ACW073 (106 LD.)	LITHOLOGY	USCS LOC	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOVERY (FEET)	PENETRATION RESIST (BLDG/4-R)					
			75				Well-graded GRAVEL with sand gray, wet, dense; fine to coarse with occasional cobbles, rounded to subrounded gravel, some fine to coarse sand
			80				
			85				
			90			GW	
			95				Cobby from 95 feet to about 105 feet
			100				
			105				
			110			CL/ ML	Silty CLAY gray, moist, firm; mostly lean clay with up to 40% silt, trace fine to medium sand; 1/8 inch worm possible with saturated sample, low liquid limit, little toughness, only slightly dilatant

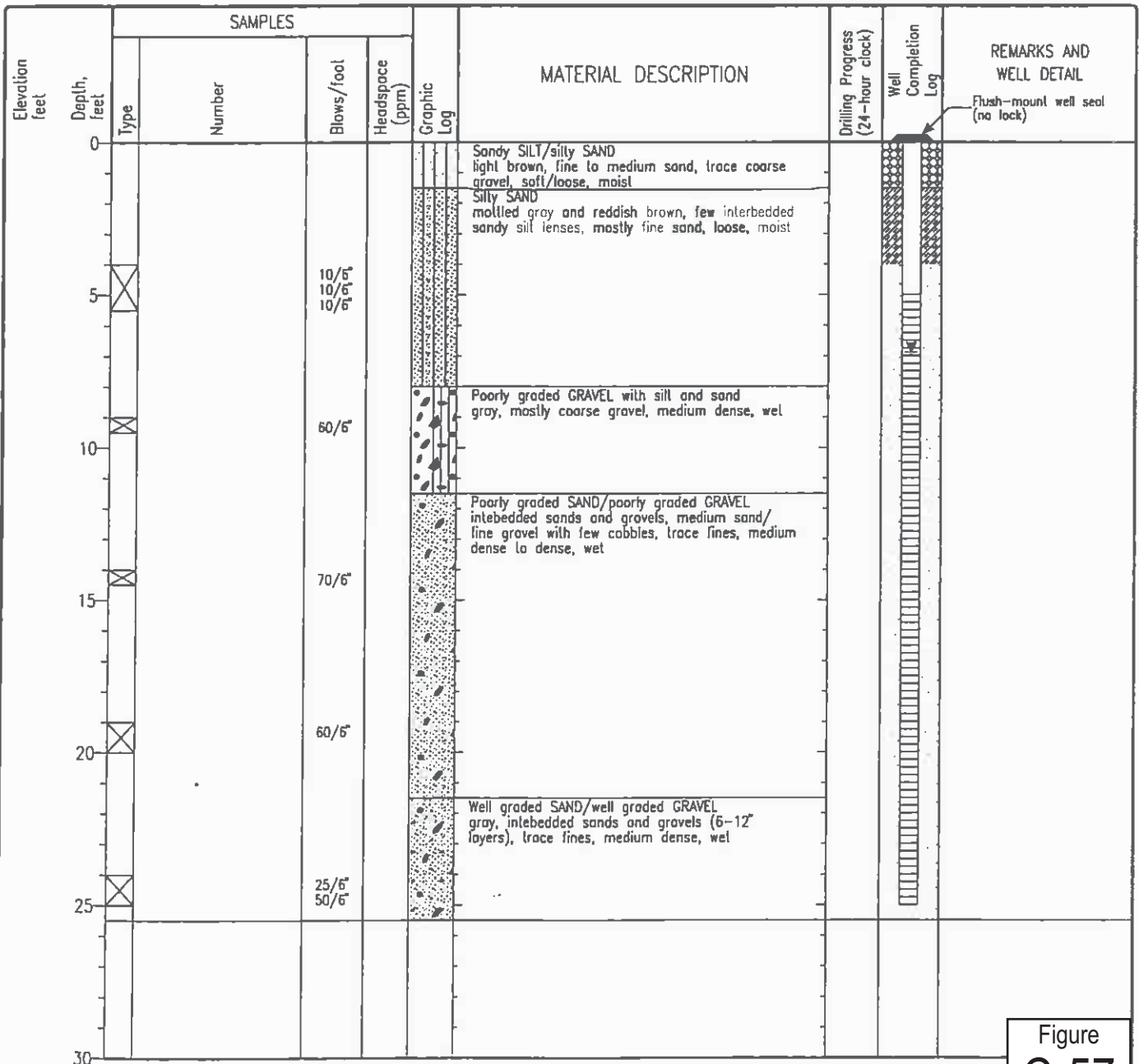
Figure  
C-56  
(3 of 3)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW074

Sheet 1 of 1

Date(s) Drilled	12/14/96	Logged By	Scott K	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	8 5/8" OD	Total Depth Drilled (feet)	25.5
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc.	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	6.9	Date Measured	12/14/1996	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	2/12 Silica Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.020" Slotted SCH 40 PVC
Comments					



Report: EWI\_A; Project File: C:\PROGRAMS\GINTM\PROJECTS\BOING GP.; Date Template WC\_CORP1 CDT Printed: 10/22/98

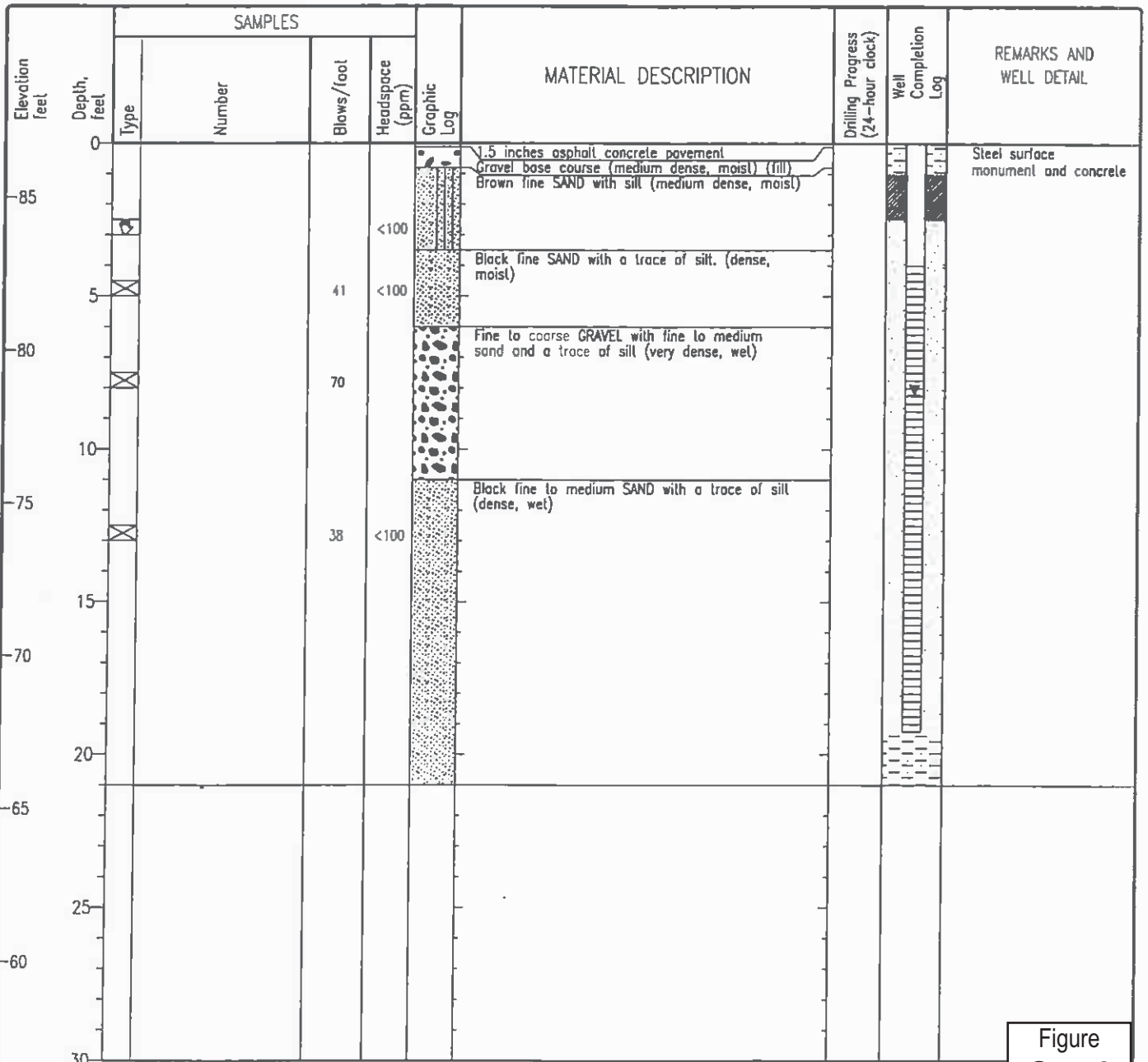
Figure C-57

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW076

Sheet 1 of 1

Date(s) Drilled	3/24/97		Logged By			Checked By		
Drilling Method			Drill Bit Size/Type			Total Depth Drilled (feet)	21.0	
Drill Rig Type			Drilling Contractor			Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	8.21		Date Measured	03/24/97		Approx. Surface Elevation (feet)	86.8	
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Slotted SCH 40 PVC	
Type of Sand Pack	Lonestar 2/12 Sand		Type/Thickness of Seal(s)	Bentonite				
Comments								



Report: ENW\_Tx\_ -- Project: File: C:\PROGRAMS\GINTW\PROJECTS\BOING\CP1; Data Template: WC\_CORP1.GDT Printed: 10/22/98

Figure C-58



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW077

Sheet 1 of 1

Date(s) Drilled	3/24/97		Logged By	Checked By
Drilling Method			Drill Bit Size/Type	Total Depth Drilled (feet) 21.0
Drill Rig Type			Drilling Contractor	Hammer Weight/Drop (lbs/in.)
Groundwater Level (feet)	8.57		Date Measured	03/24/97
Approx. Surface Elevation (feet)				87.3
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Screen Perforation				0.010" Slotted SCH 40 PVC
Type of Sand Pack	Lonestar 2/12 Sand		Type/Thickness of Seal(s)	Bentonite
Comments				

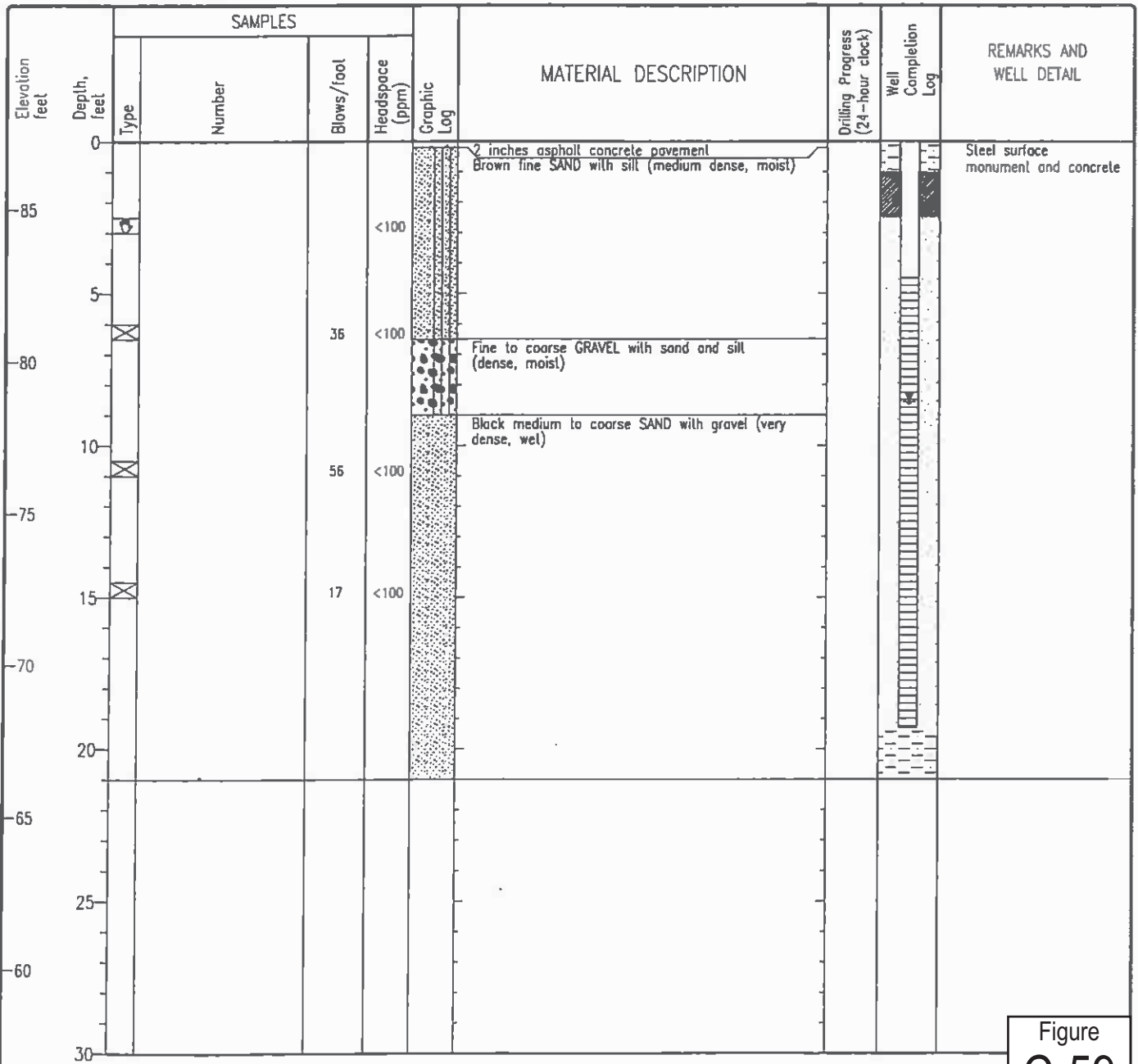


Figure C-59



Report: EW\_1A\_Tproject.Flw C:\PROGRAM\GINTW\PROJECTS\BOING.GPJ; Data Template.WC\_CORP1.GDT Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW078  
 Sheet 1 of 1

Date(s) Drilled	3/24/97	Logged By	Checked By
Drilling Method		Drill Bit Size/Type	Total Depth Drilled (feet) 21.0
Drill Rig Type		Drilling Contractor	Hammer Weight/Drop (lbs/in.)
Groundwater Level (feet)	9.1	Date Measured	03/24/97
Approx Surface Elevation (feet)			87.5
Diameter of Hole (inches)	Diameter of Well (inches) 2	Type of Well Casing	SCH 40 PVC
Screen Perforation		Type/Thickness of Seal(s)	Bentonite
Type of Sand Pack	Loneslar 2/12 Sand		0.010" Slotted SCH 40 PVC
Comments			

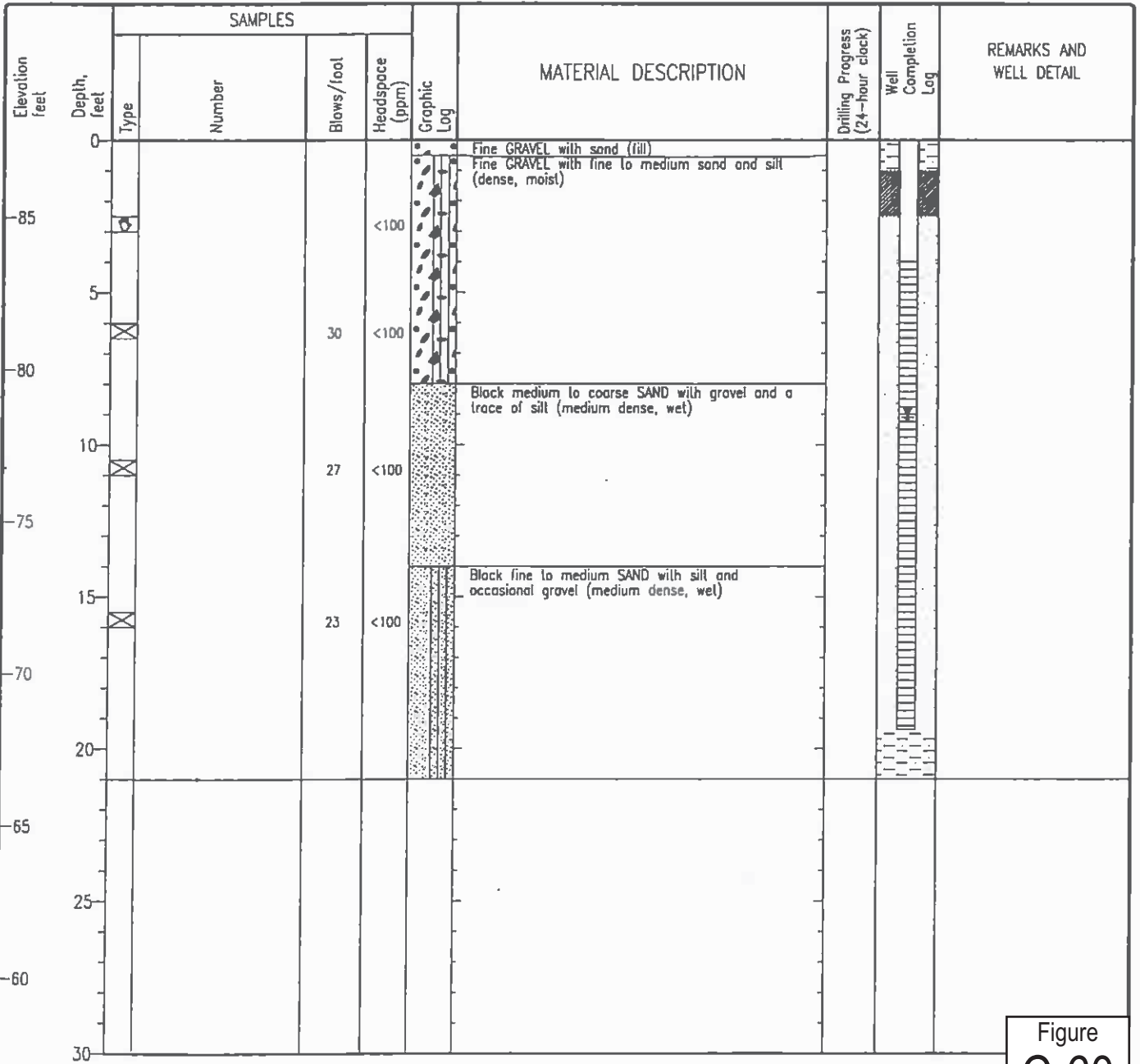


Figure C-60

Report: ENV\_1A - Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING GP-1 Date: Template WC\_CORP1.CDT Printed: 10/22/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW079

Sheet 1 of 1

Date(s) Drilled: 5/15/97		Logged By:		Checked By:	
Drilling Method:		Drill Bit Size/Type:		Total Depth Drilled (feet): 20.5	
Drill Rig Type: CME 55		Drilling Contractor: AGI Technologies		Hammer Weight/Drop (lbs/in.):	
Groundwater Level (feet): 8.5		Date Measured: 4/17/97		Approx. Surface Elevation (feet):	
Diameter of Hole (inches):	Diameter of Well (inches): 2	Type of Well Casing: PVC	Screen Perforation: 0.010" Slot, 2" ID/3.5" OD		
Type of Sand Pack: Loneslor 2/12 Silica Sand		Type/Thickness of Seal(s): Bentonite Chips			
Comments:					

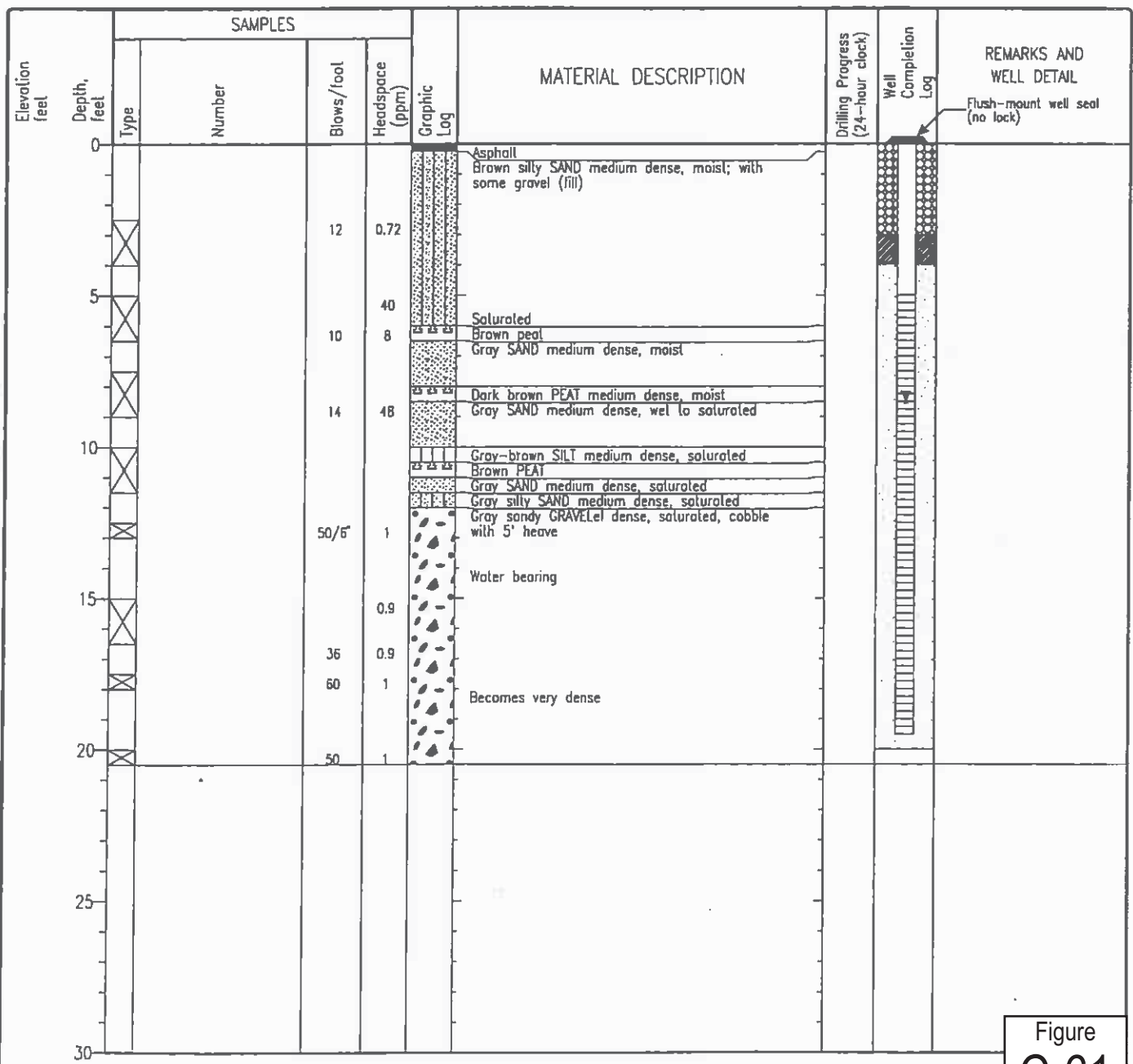


Figure  
C-61



Report: ENW\_1A --project File C:\PROGRAMS\1\QNTM\PROJECTS\BOEING.GPJ; Data Template WC\_GDRPT1.GDT Printed: 10/22/98

Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW080

Sheet 1 of 1

Date(s) Drilled	6/12/97	Logged By	R Osgood.	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	9" OD, 4.25 ID	Total Depth Drilled (feet)	21.0
Drill Rig Type	CME 55	Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	7.5	Date Measured	06/12/97	Approx. Surface Elevation (feet)	80.1
Diameter of Hole (inches)	9"	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Colorado Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	#10 Slot, 2" ID/3.75" OD
Comments					

Elevation feet	Depth, feet	SAMPLES				Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)					
80	0						Sandy gravel fill			
			ASB080-1.0	15/6"	0.0		Dark brown fine SAND with pebbles, moderately well graded, loose, moist, no odor or staining			
			ASB-080-2.5	4/6" 6/6"	0.0		Dark brown SAND, poorly graded, very loose, moist, organic peat layer at 2.75 feet below ground surface, no odor or staining			
75	5		ASB-080-5.0	8/6" 8/6"	0.0		Very dark brown sandy organic PEAT grading to gray silty clay at 5.5 feet below ground surface, soft, moist, low plasticity, no odor or staining			
			ASB-080-7.5	11/6" 15/6" 18/6"	0.0		Grayish brown sandy silty PEAT, very loose, moist, grades to brown, fine sand at 8.0 feet below ground surface, poorly graded, very loose, wet (water first encountered at 7.5 feet below ground surface)			
70	10			11/6" 15/6" 18/6"	0.0		Dark brownish gray very fine SAND, poorly graded, loose, no bedding, wet, no staining or odor			
				11/6" 17/6" 18/6"	0.0		Dark brownish gray very fine SAND, with trace silt, poorly graded, loose, no bedding, wet, no staining or odor.			
65	15			30/6" 32/6" 36/6"	0.0		Dark grayish brown fine SAND with trace silt, poorly graded, medium dense, wet, 2" layer of silty SAND at 15.5 feet below ground surface, no odor or staining throughout			
				11/6" 13/6" 15/6"	0.0		Same as above (loose).			
60	20			16/6" 18/6" 18/6"	0.0		Heaving sands encountered. Dark brown medium SAND, poorly graded, loose, wet, no odor or staining			
55	25									
30										

Report: EW\_1A, Project File: C:\PROGRAMS\GINTM\PROJECTS\BOEING\GPA, Data Template: WC\_CORP1.GDT, Printed: 10/22/98

Figure C-62



Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW081

Sheet 1 of 1

Date(s) Drilled	6/12/97		Logged By	R Osgood		Checked By		
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	9" OD, 4.25 ID		Total Depth Drilled (feet)	20.5	
Drill Rig Type	CME 55		Drilling Contractor	Cascade Drilling, Inc		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	7.5		Date Measured	06/12/97		Approx. Surface Elevation (feet)	83.6	
Diameter of Hole (inches)	9"	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC		Screen Perforation	#10 Slot, 2" ID/3.75" OD
Type of Sand Pack	10/20 Colorado Sand		Type/Thickness of Seal(s)	Bentanite				
Comments								

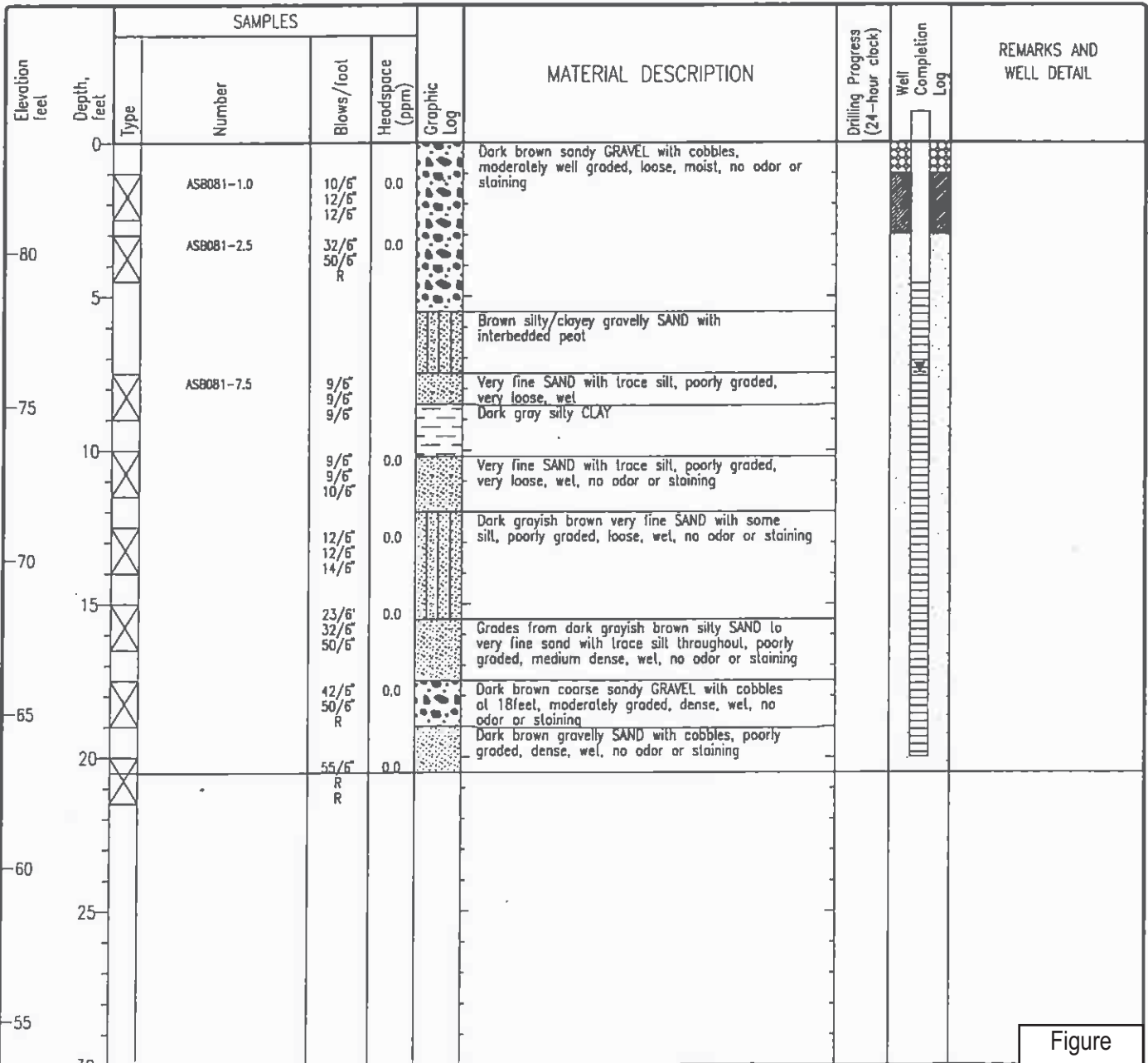


Figure C-63



Report: ENW\_14\_ - 'project File: C:\PROGRAMS\1\GANTM\PROJECTS\BOEING GP1; Data Template WC\_CORP1.COT Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW082

Sheet 1 of 1

Date(s) Drilled	6/12/97		Logged By	R Osgood		Checked By		
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	9" OD, 4.25 ID		Total Depth Drilled (feet)	21.0	
Drill Rig Type	CME 55		Drilling Contractor	Cascade Drilling, Inc		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	7.5		Date Measured	06/12/97		Approx. Surface Elevation (feet)	84.6	
Diameter of Hole (inches)	9"	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC		Screen Perforation	#10 Slot, 2" ID/3.75" OD
Type of Sand Pack	10/20 Colorado Sand		Type/Thickness of Seal(s)	Bentonite				
Comments								

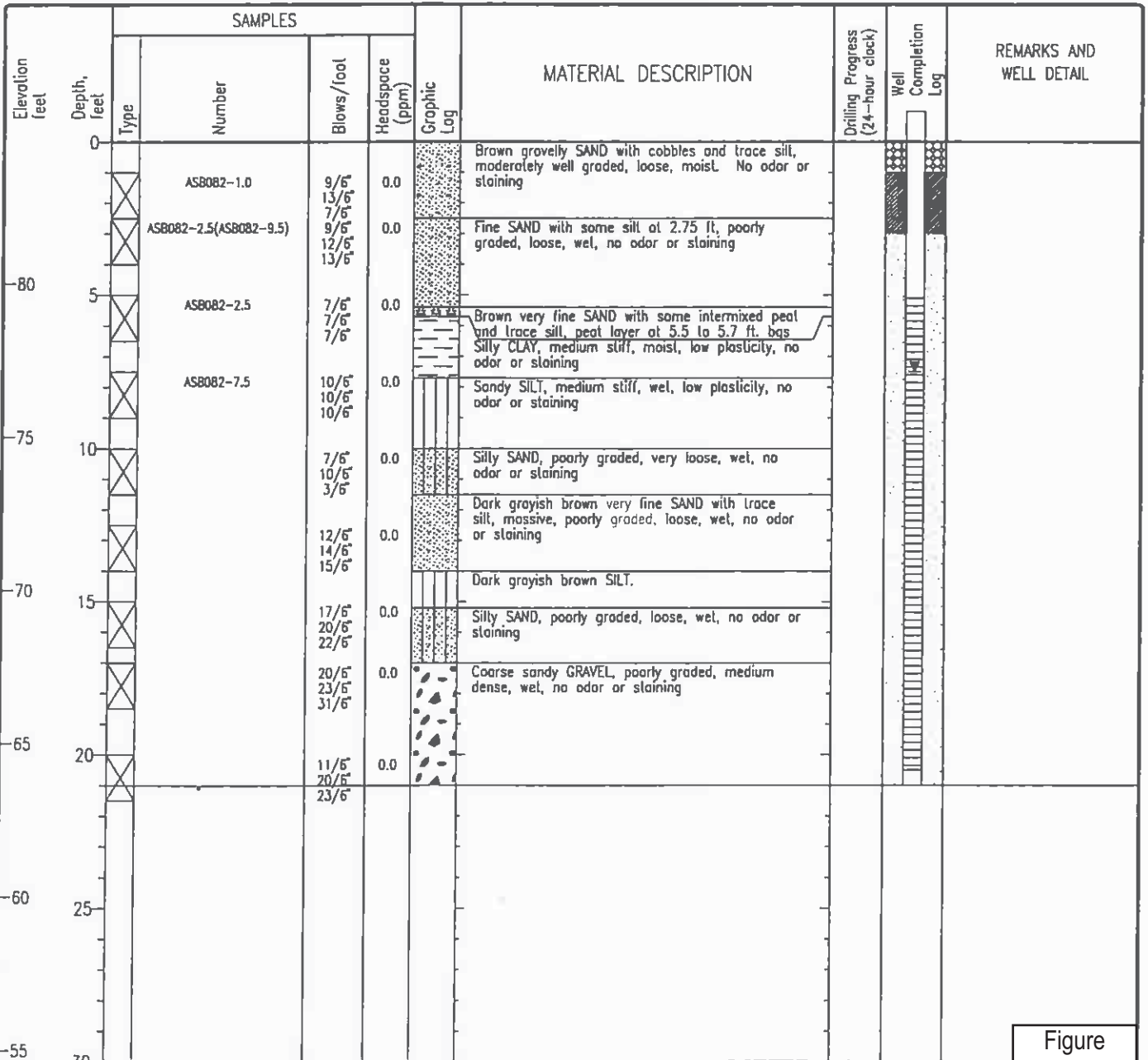


Figure  
C-64



Report: EMW\_11... Project File: C:\PROGRAMS\1\GINTWA\PROJECTS\BOING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW083

Sheet 1 of 1

Date(s) Drilled	6/12/97	Logged By	R Osgood	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	9" OD, 4.25 ID	Total Depth Drilled (feet)	21.5
Drill Rig Type	CME 55	Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	7.5	Date Measured	06/12/97	Approx Surface Elevation (feet)	84.4
Diameter of Hole (inches)	9"	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Colorado Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	#10 Slot, 2" ID/3.75" OD
Comments					

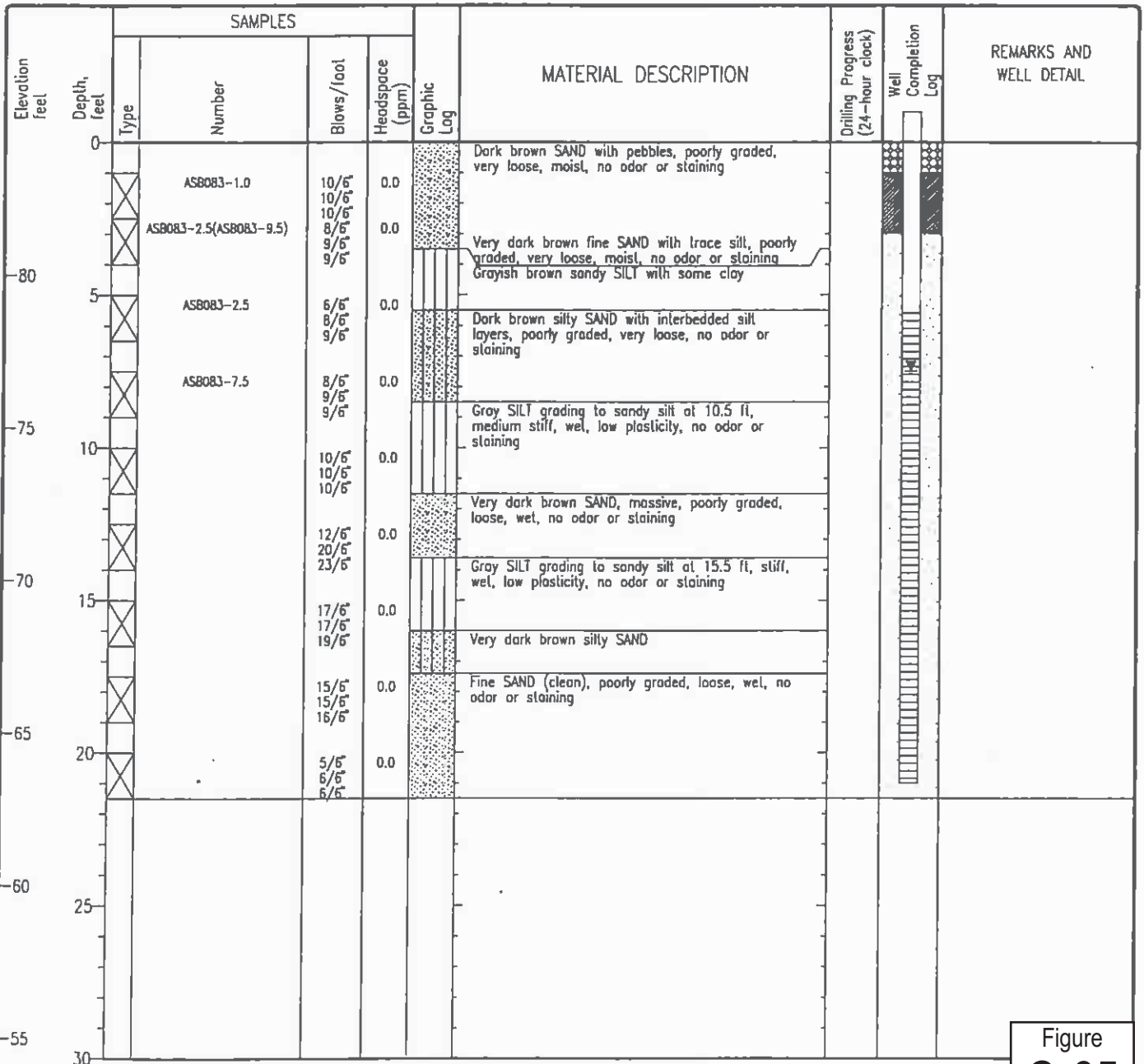
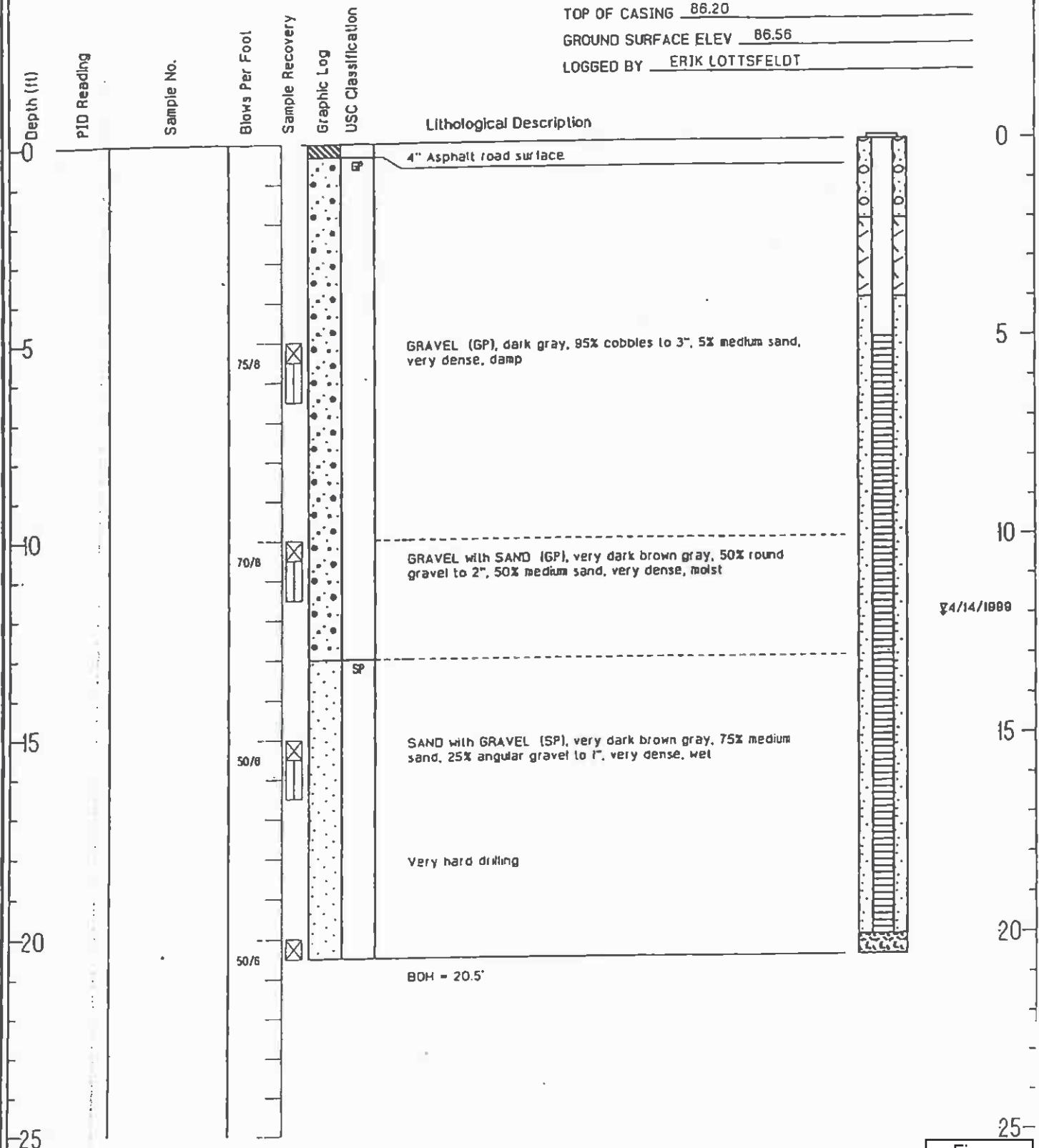


Figure  
C-65



# AGW084

PROJECT BOEING AUBURN 17-34 TSD CLOSURE  
 DATE COMPLETED 14 APRIL 1999  
 DRILLING METHOD 4" ID HSA  
 TOP OF CASING 86.20  
 GROUND SURFACE ELEV 86.56  
 LOGGED BY ERIK LOTTSFELDT



4/14/1999



# AGW085

PROJECT BOEING AUBURN 17-34 TSD CLOSURE

DATE COMPLETED 14 APRIL 1999

DRILLING METHOD 4" ID HSA

TOP OF CASING 86.42

GROUND SURFACE ELEV 88.95

LOGGED BY ERIK LOTTSFELDT

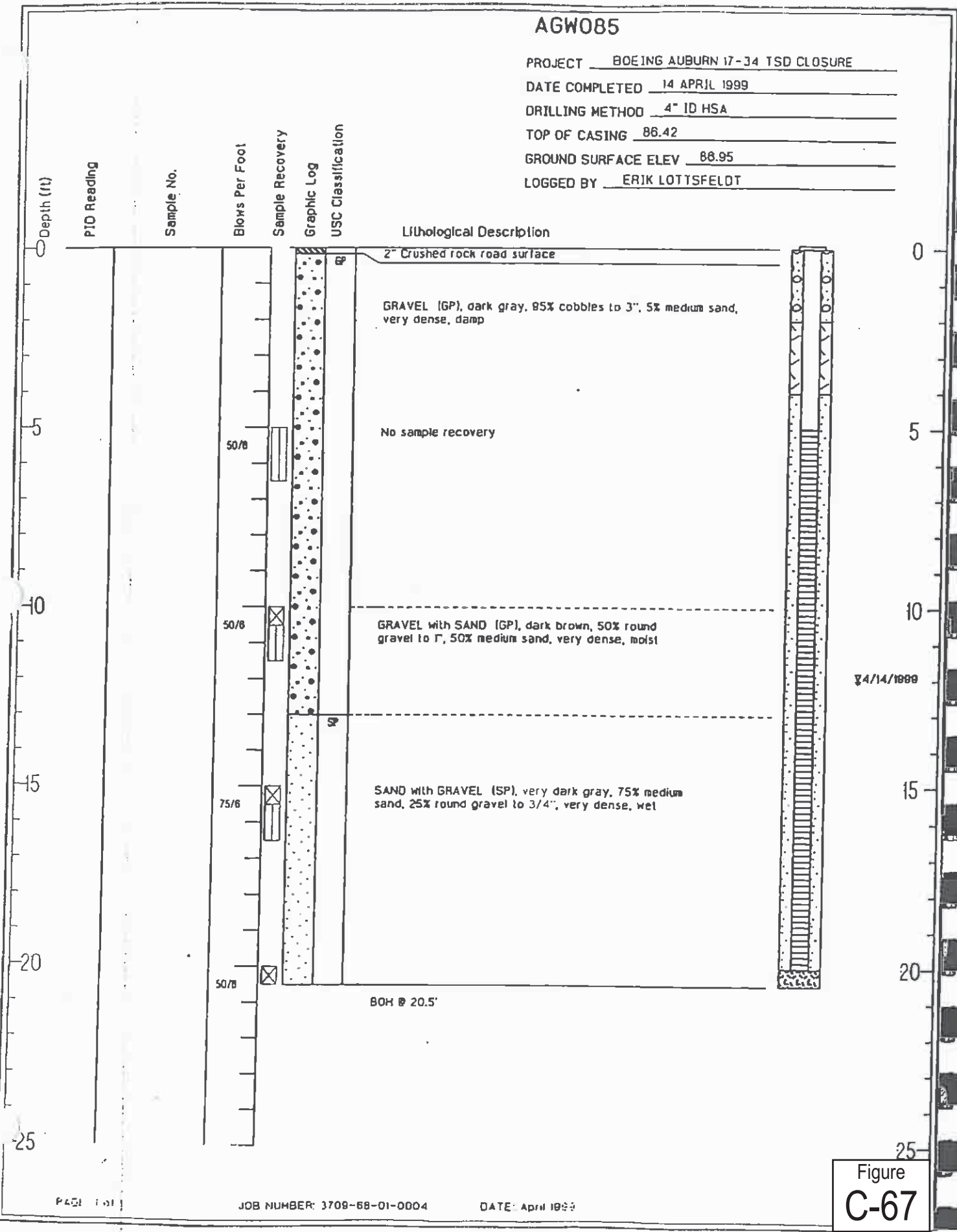
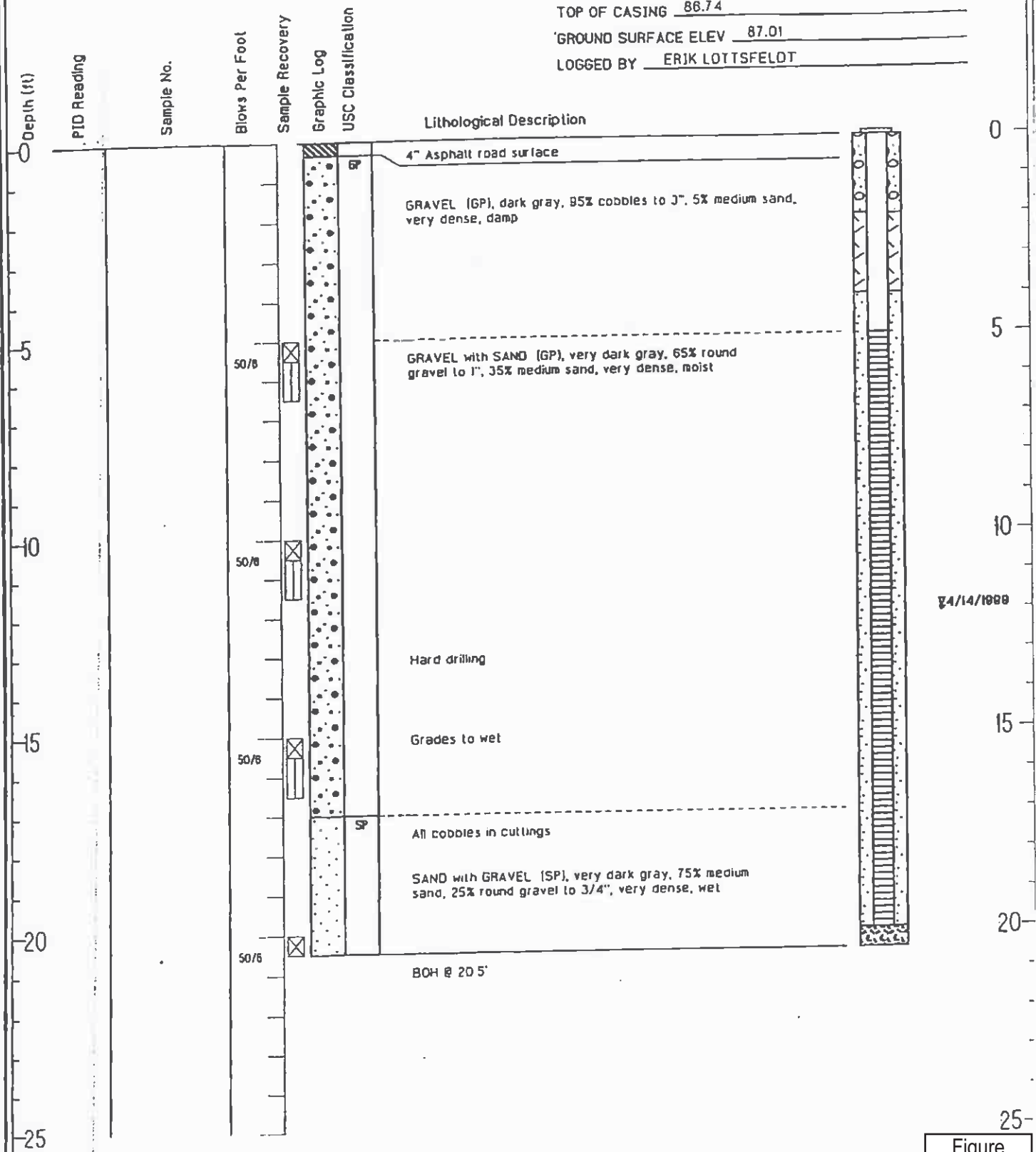


Figure C-67

# AGW086

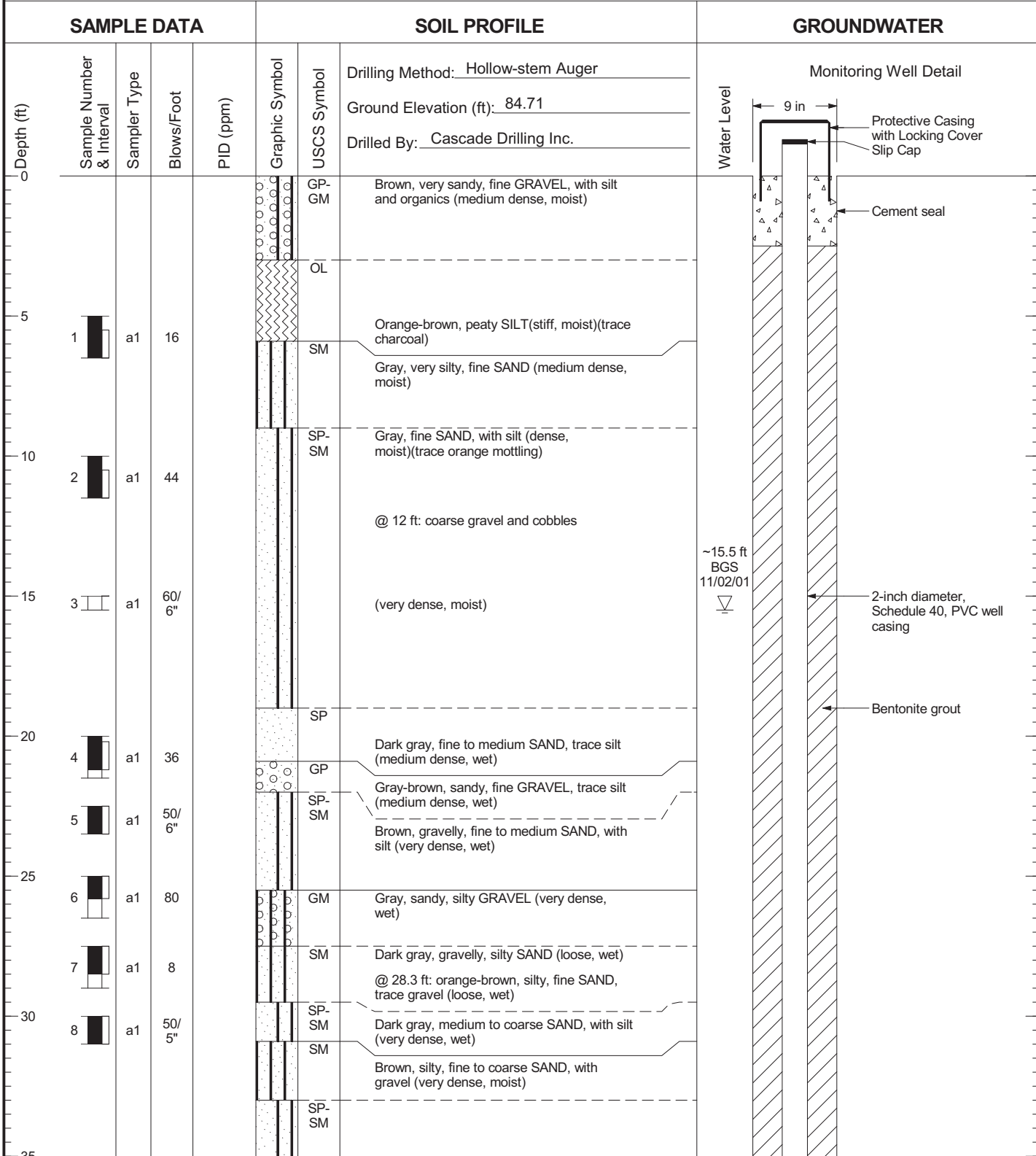
PROJECT BOEING AUBURN 17-34 TSD CLOSURE  
 DATE COMPLETED 14 APRIL 1999  
 DRILLING METHOD 4" ID HSA  
 TOP OF CASING 86.74  
 GROUND SURFACE ELEV 87.01  
 LOGGED BY ERIK LOTTSFELOT



4/14/1999

Figure C-68

# AGW087

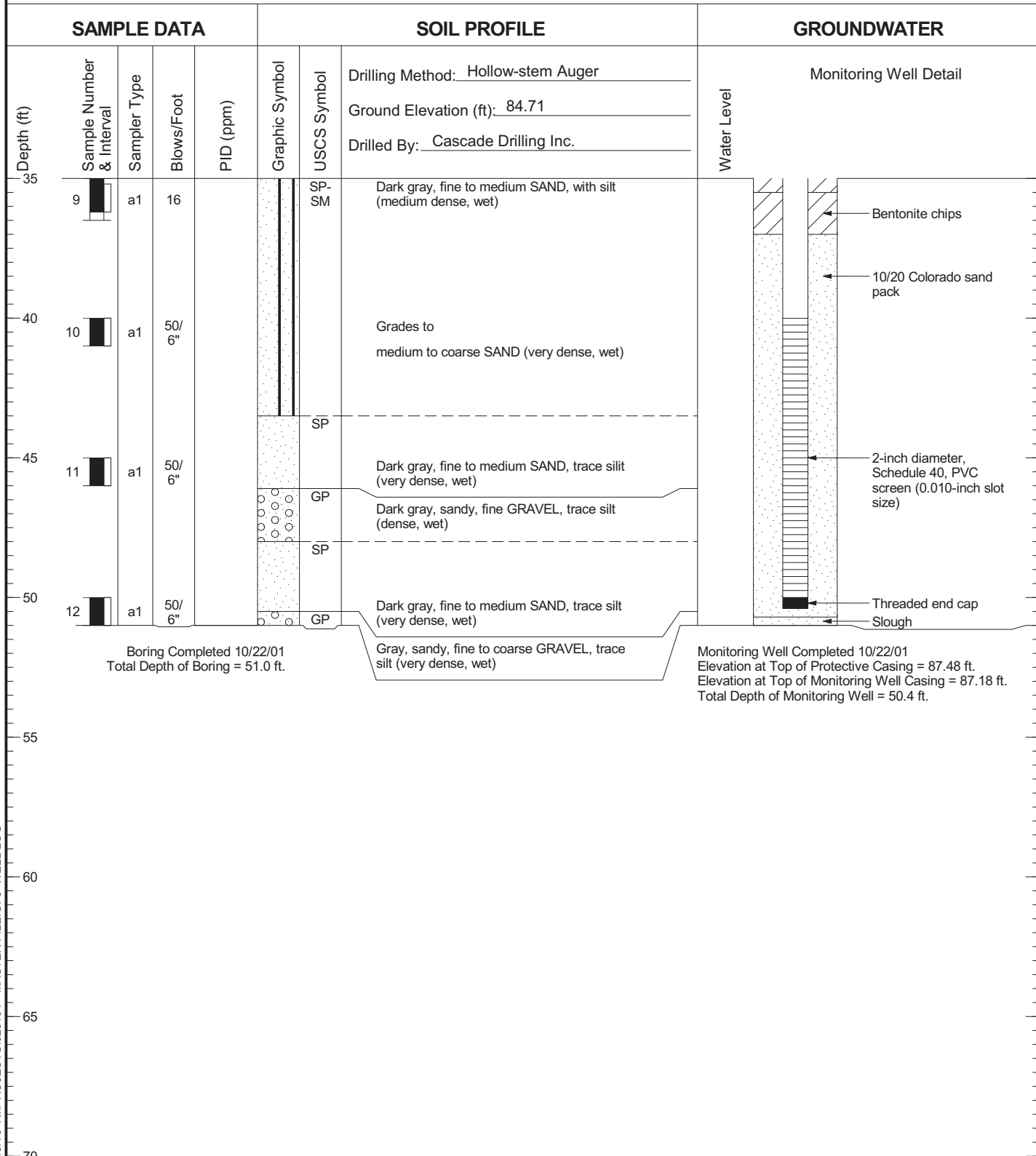


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW087



Boring Completed 10/22/01  
Total Depth of Boring = 51.0 ft.

Monitoring Well Completed 10/22/01  
Elevation at Top of Protective Casing = 87.48 ft.  
Elevation at Top of Monitoring Well Casing = 87.18 ft.  
Total Depth of Monitoring Well = 50.4 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

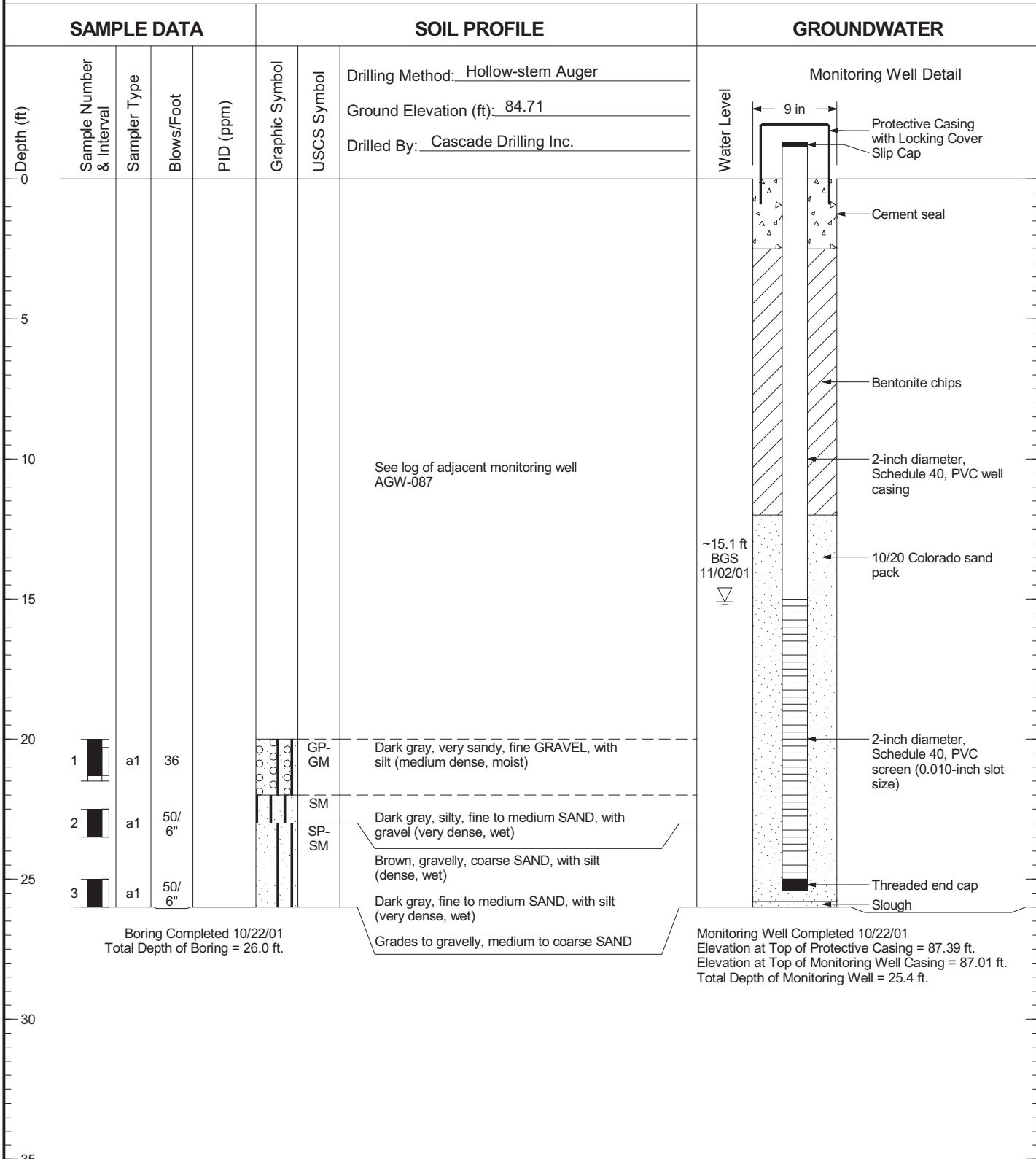


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW087

Figure  
C-69  
(2 of 2)

# AGW088



Boring Completed 10/22/01  
Total Depth of Boring = 26.0 ft.

Monitoring Well Completed 10/22/01  
Elevation at Top of Protective Casing = 87.39 ft.  
Elevation at Top of Monitoring Well Casing = 87.01 ft.  
Total Depth of Monitoring Well = 25.4 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

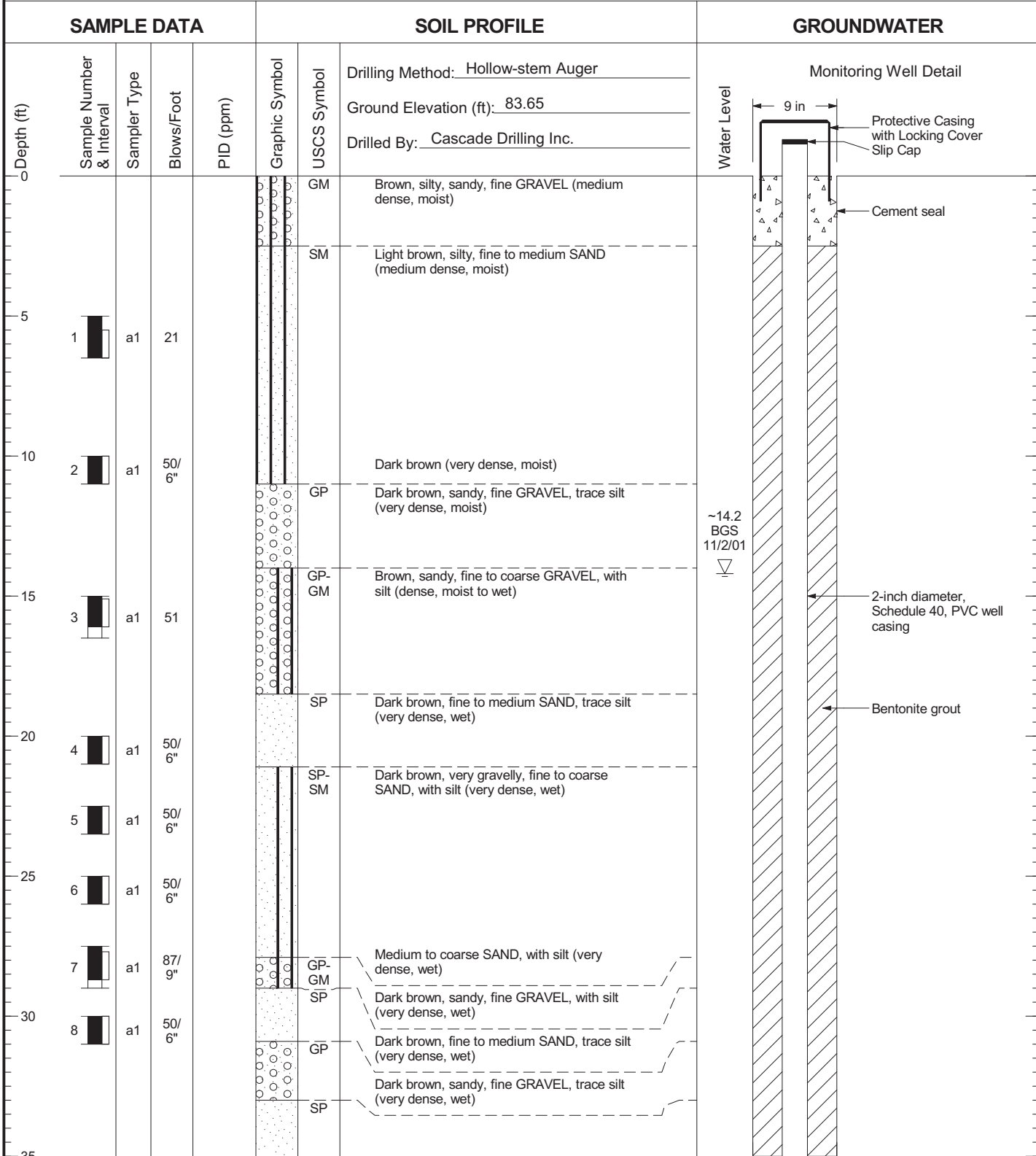


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW088

Figure  
**C-70**

# AGW089



- 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

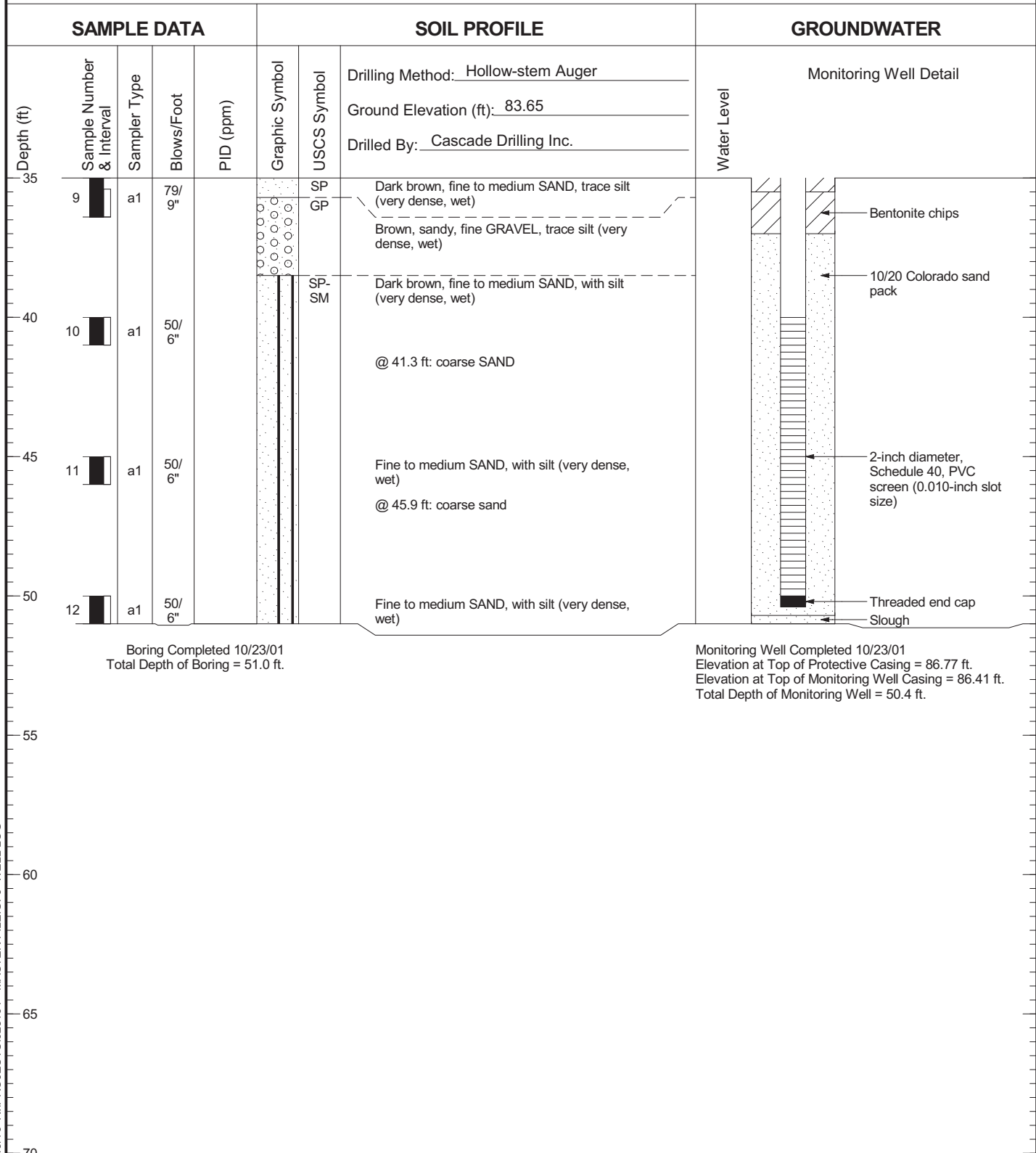


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW089

Figure  
C-71  
(1 of 2)

# AGW089



- 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW089

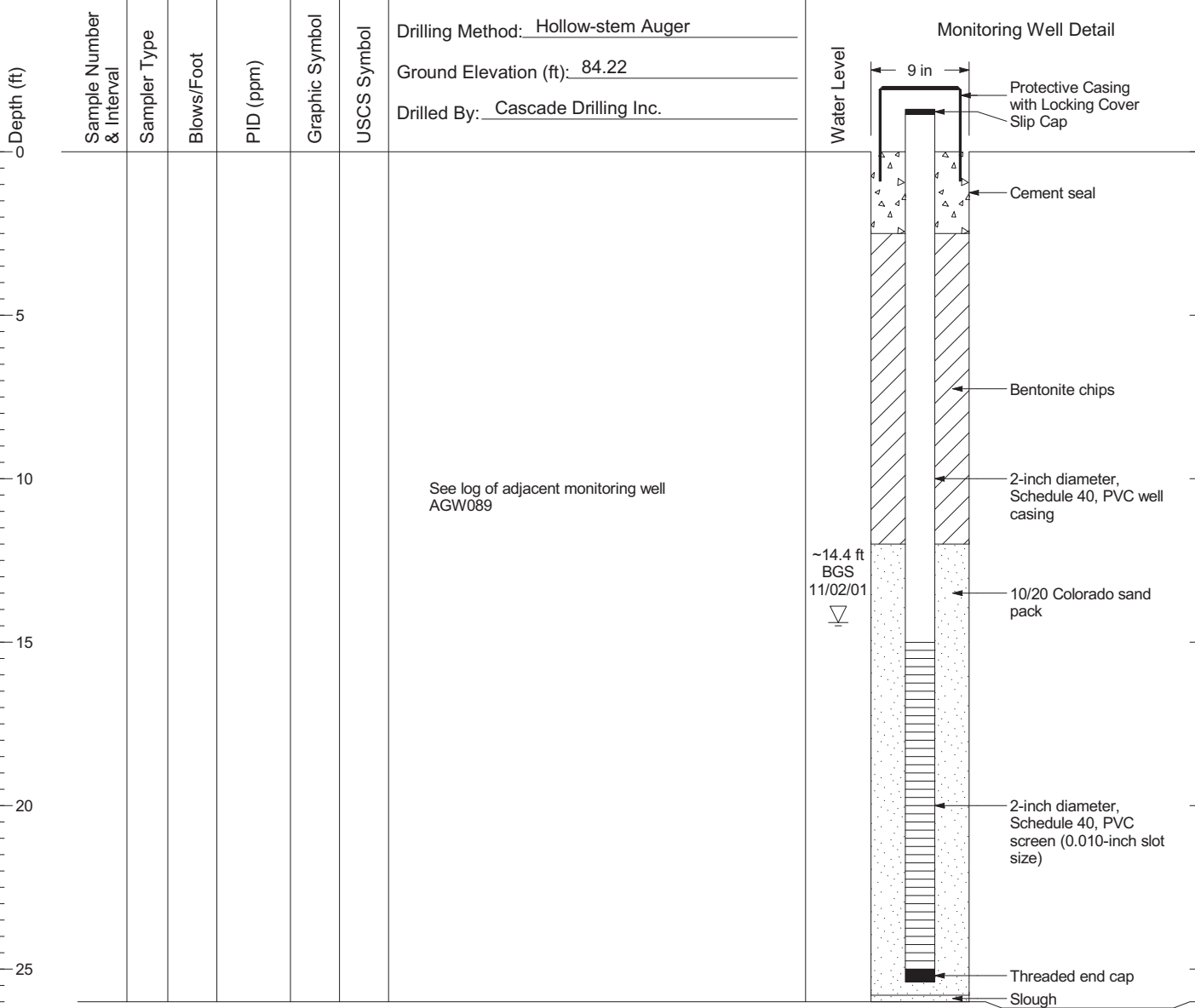
Figure  
C-71  
(2 of 2)

# AGW090

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 10/23/01  
Total Depth of Boring = 26.0 ft.

Monitoring Well Completed 10/23/01  
Elevation at Top of Protective Casing = 86.98 ft.  
Elevation at Top of Monitoring Well Casing = 86.53 ft.  
Total Depth of Monitoring Well = 25.4 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



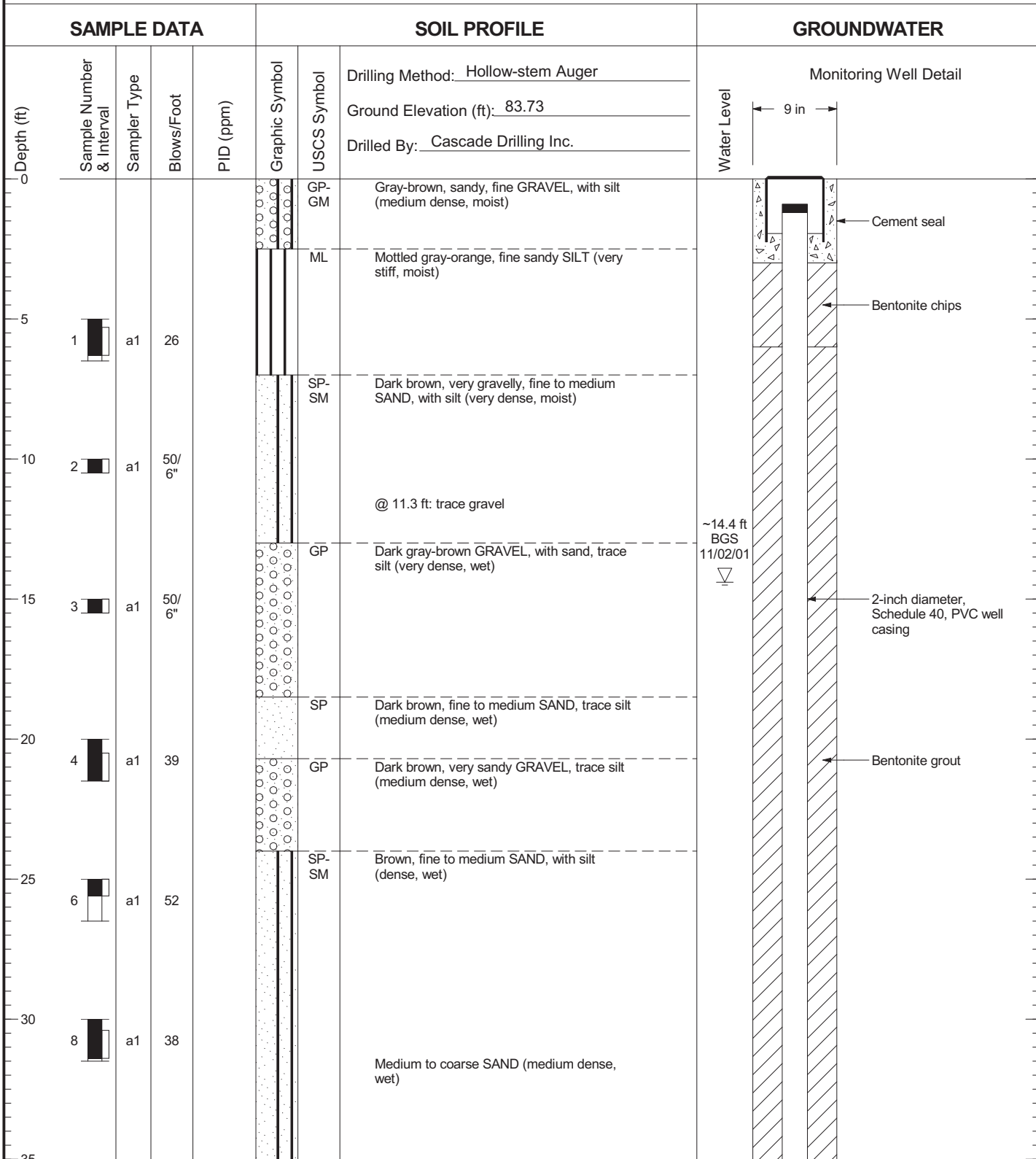
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW090

Figure  
**C-72**



# AGW091



- 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

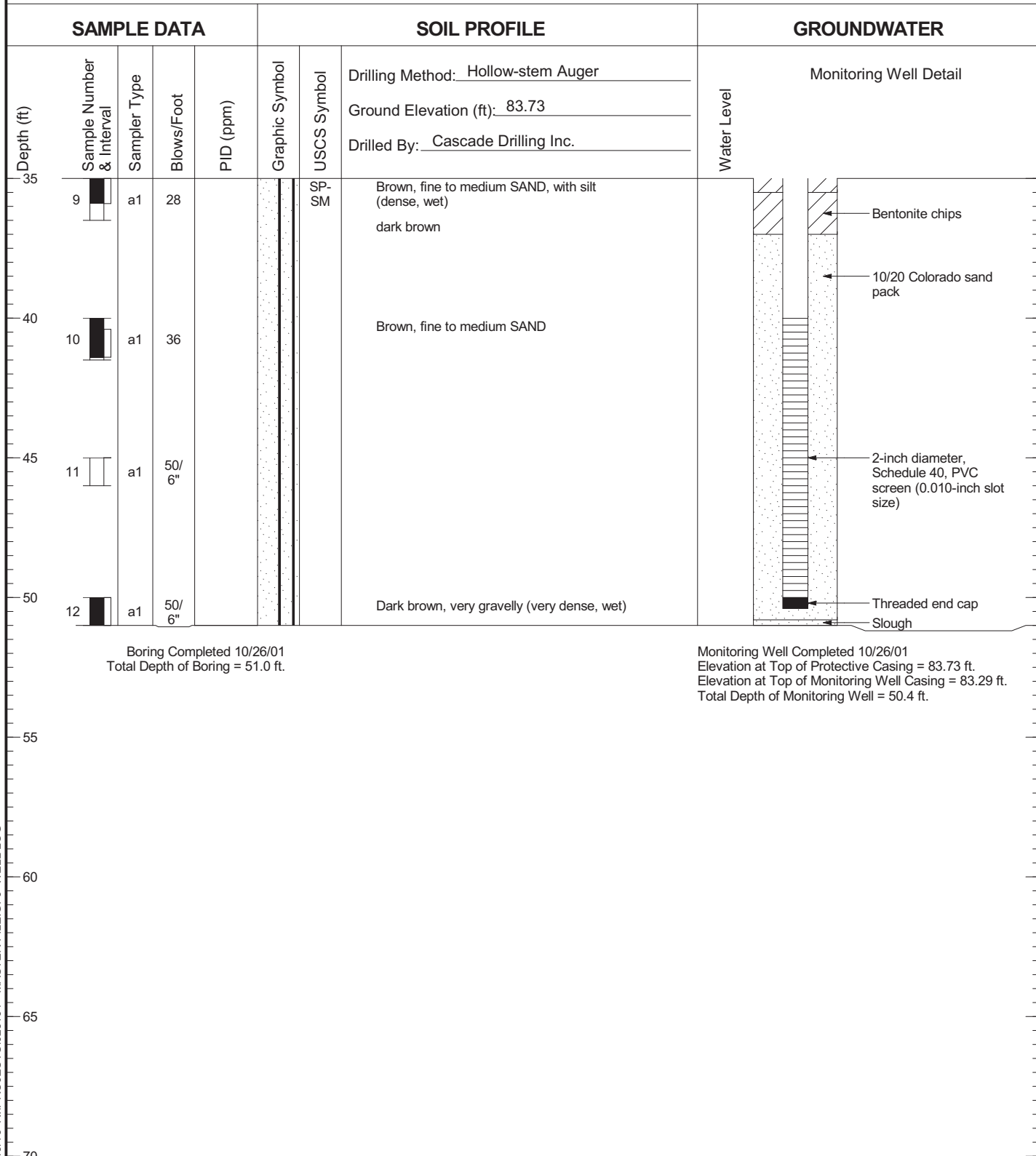


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW091

Figure  
C-73  
(1 of 2)

# AGW091



Boring Completed 10/26/01  
Total Depth of Boring = 51.0 ft.

Monitoring Well Completed 10/26/01  
Elevation at Top of Protective Casing = 83.73 ft.  
Elevation at Top of Monitoring Well Casing = 83.29 ft.  
Total Depth of Monitoring Well = 50.4 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.

025164.20 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW091

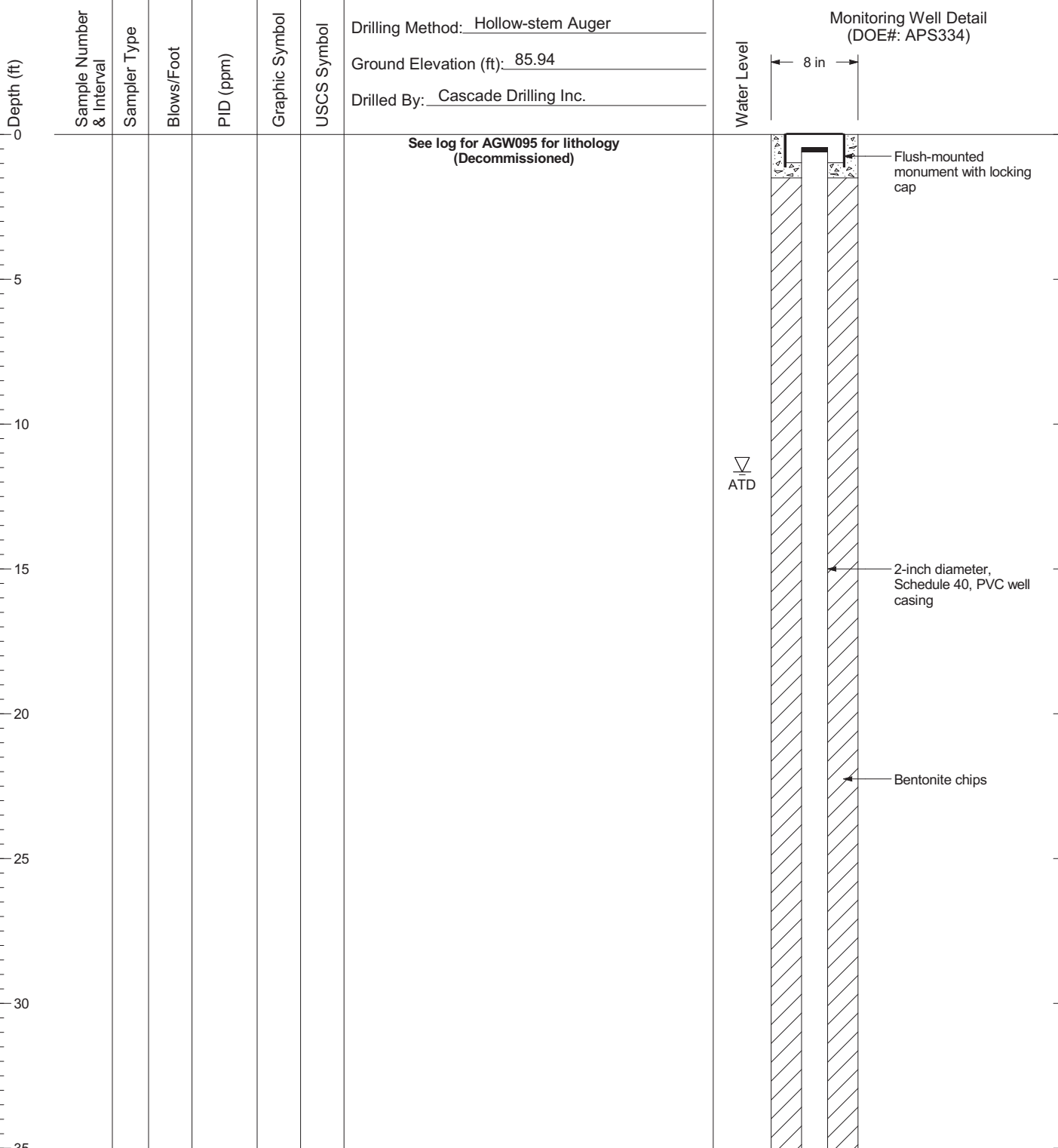
Figure  
C-73  
(2 of 2)

# AGW095R

## 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. DOE Unique Well Number: APS334

025164\_ 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW095R

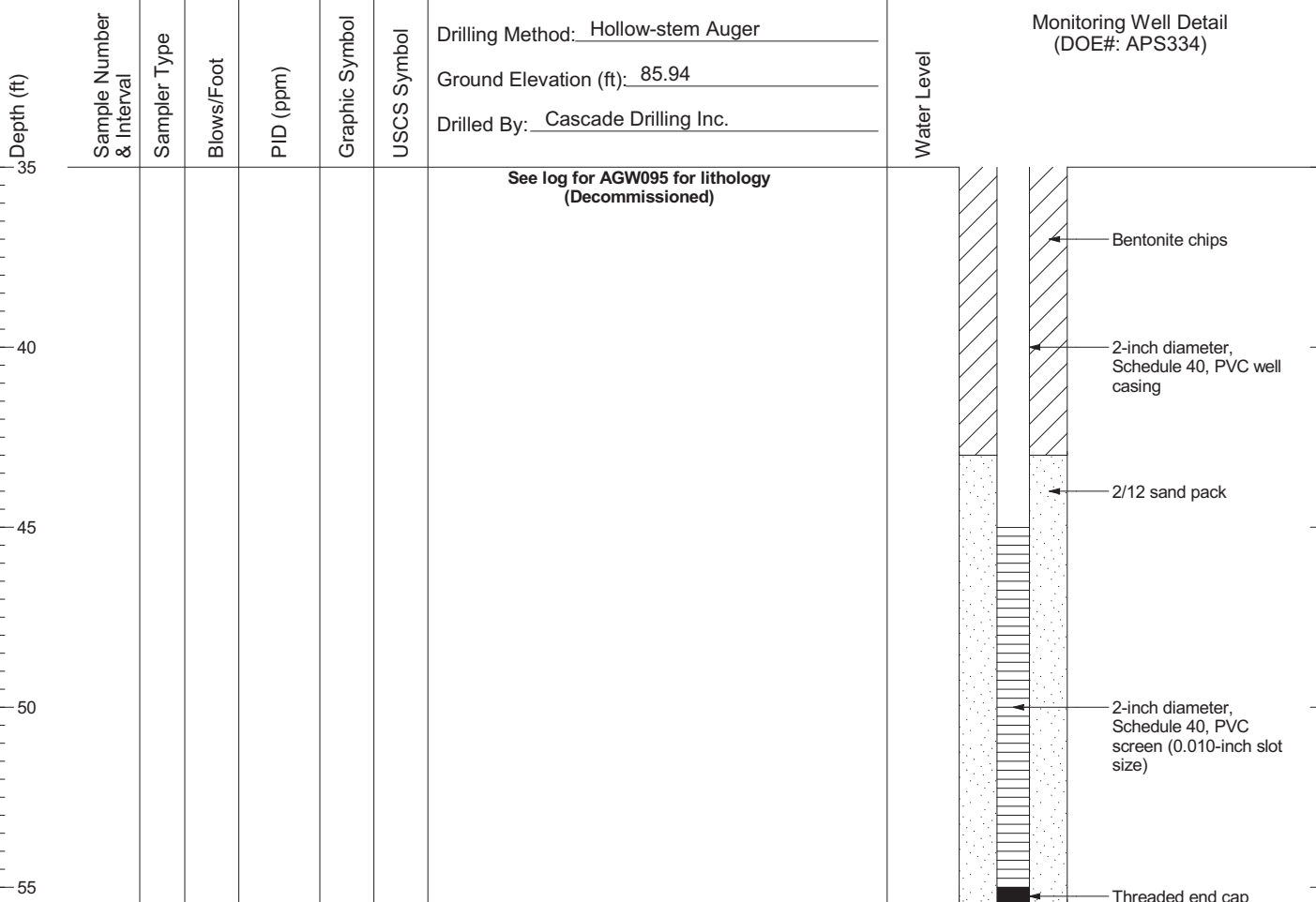
Figure  
C-74  
(1 of 2)

# AGW095R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 03/20/07  
Total Depth of Boring = 55.5 ft.

Monitoring Well Completed 03/20/07  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 85.53 ft.  
Total Depth of Monitoring Well = 55.5 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.
  4. DOE Unique Well Number: APS334

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

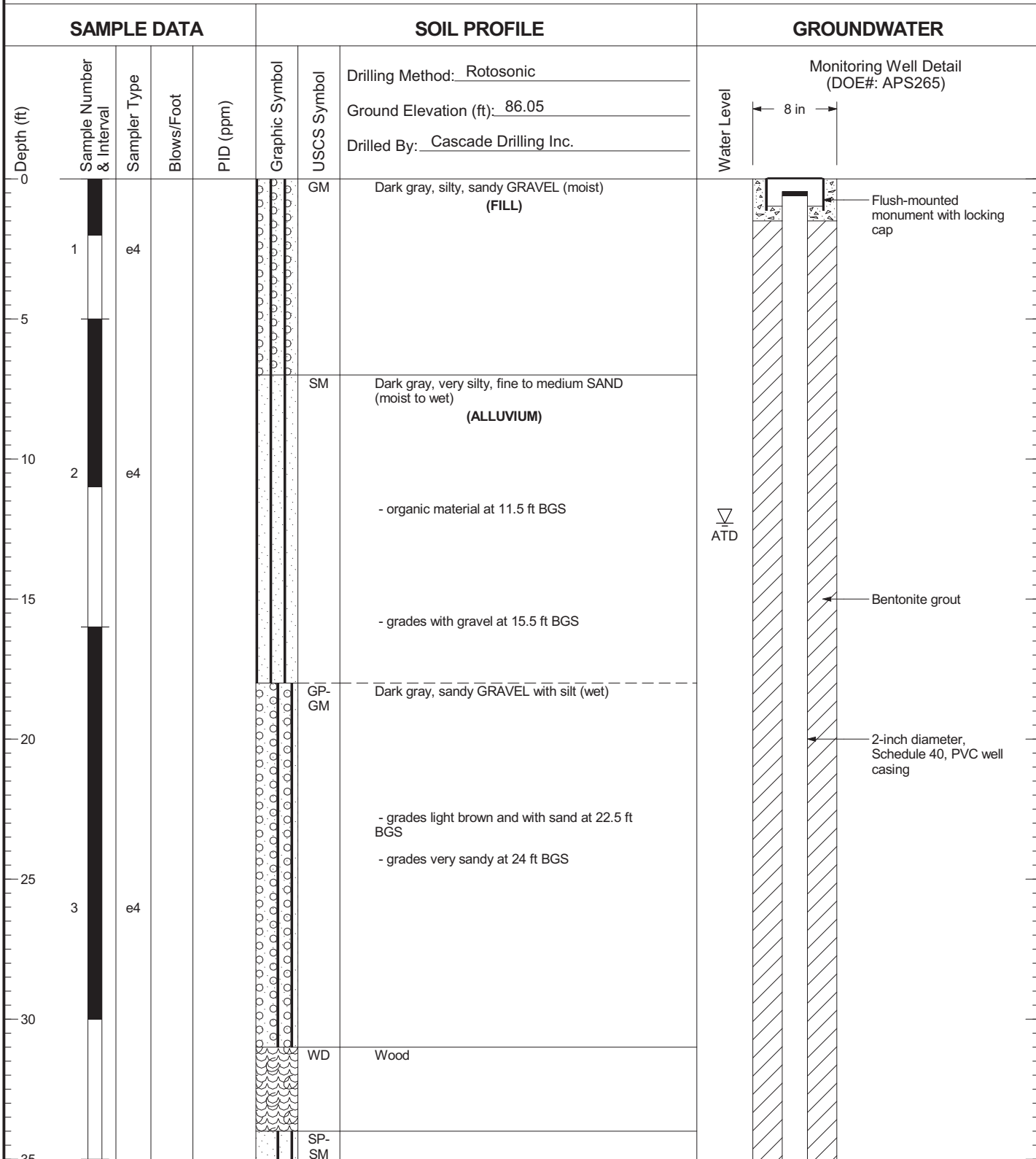


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

### Log of Monitoring Well AGW095R

Figure  
**C-74**  
(2 of 2)

# AGW098R

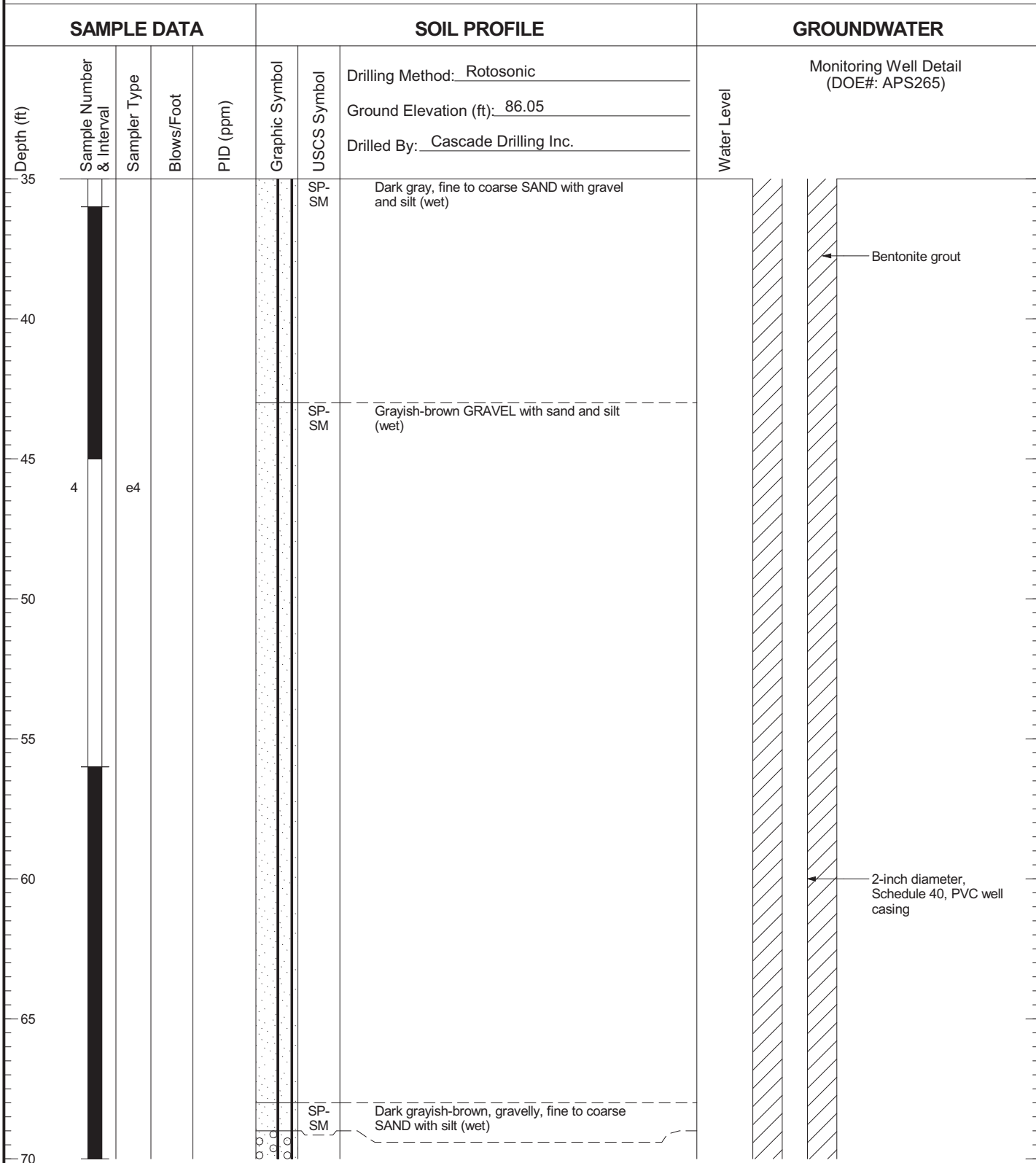


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: APS265

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW098R

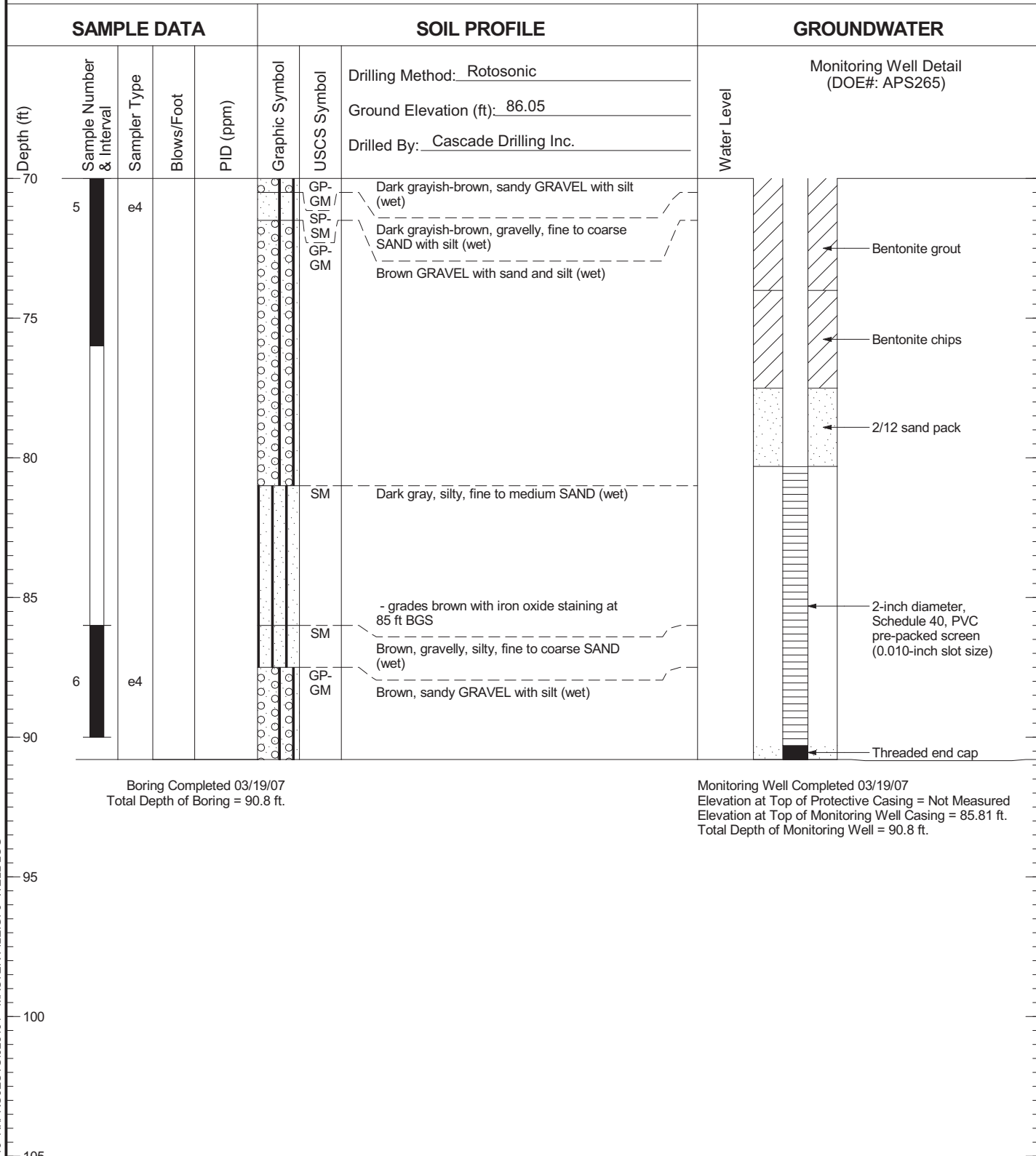


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: APS265

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW098R



Boring Completed 03/19/07  
Total Depth of Boring = 90.8 ft.

Monitoring Well Completed 03/19/07  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 85.81 ft.  
Total Depth of Monitoring Well = 90.8 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. DOE Unique Well Number: APS265

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

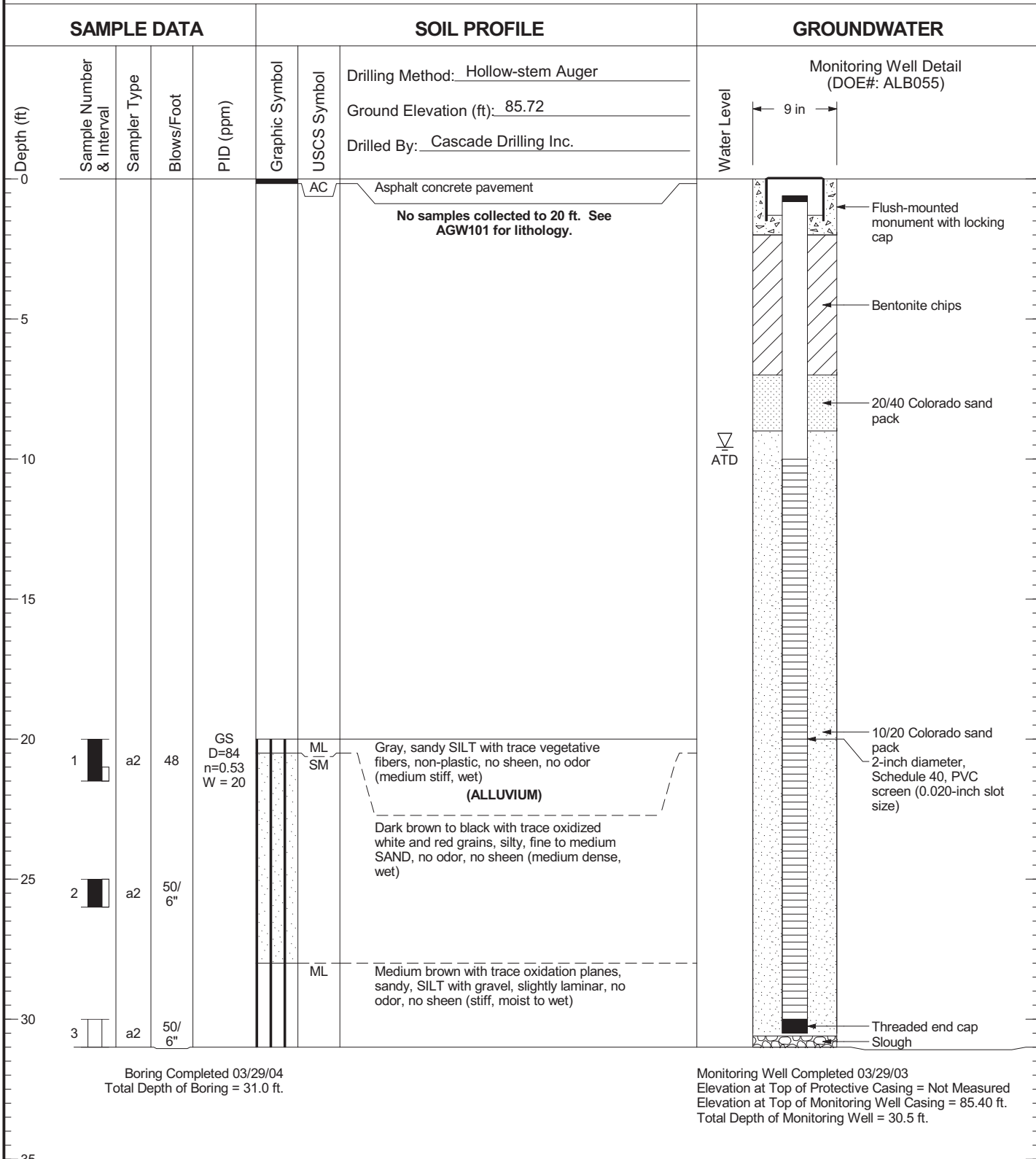


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW098R

Figure  
C-75  
(3 of 3)

# AGW100



Monitoring Well Completed 03/29/03  
 Elevation at Top of Protective Casing = Not Measured  
 Elevation at Top of Monitoring Well Casing = 85.40 ft.  
 Total Depth of Monitoring Well = 30.5 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.
  4. DOE Unique Well Number: ALB055

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



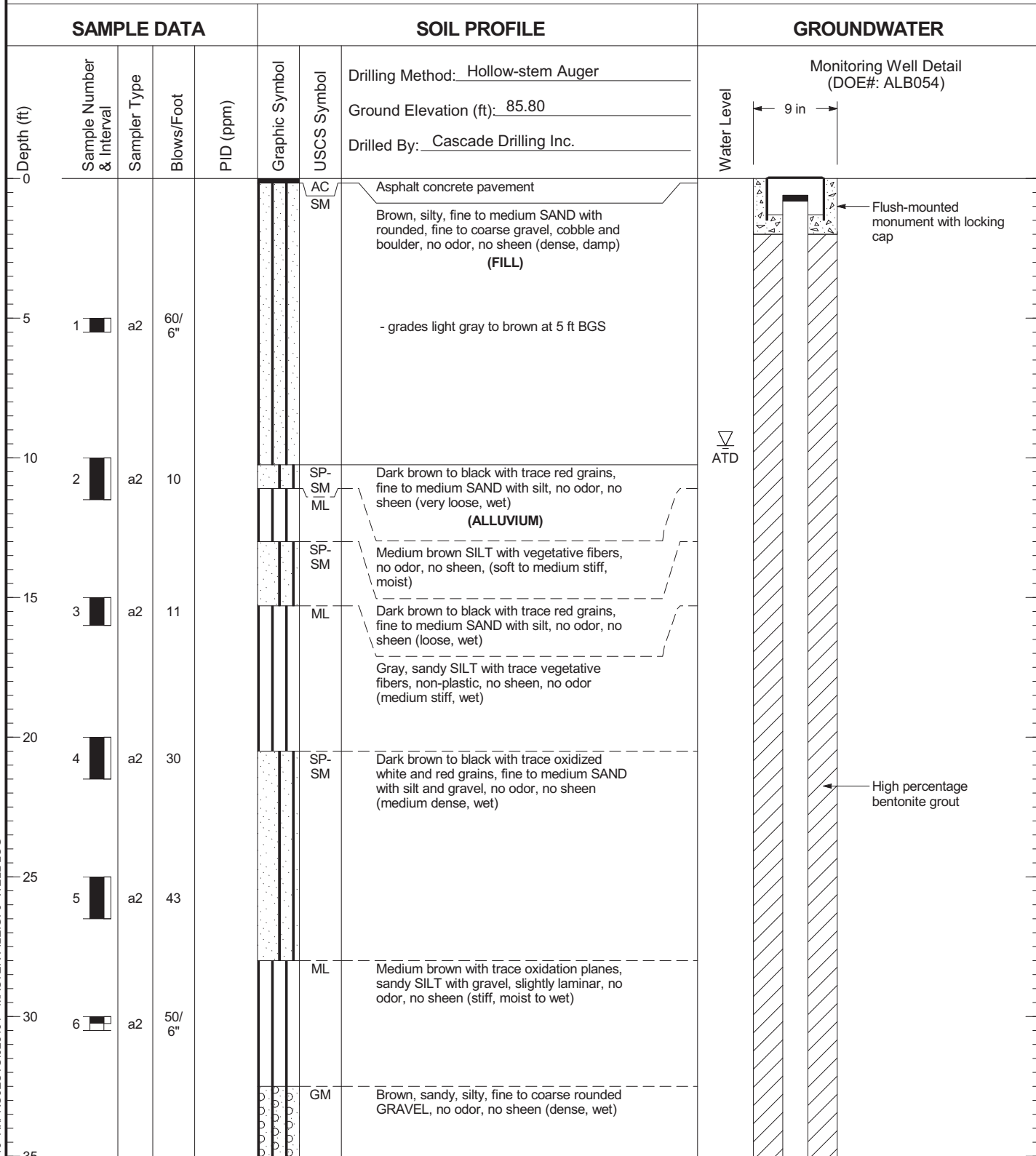
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 Investigation  
 Auburn, Washington

Log of Monitoring Well AGW100

Figure  
**C-76**



# AGW101



- 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. DOE Unique Well Number: ALB054

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

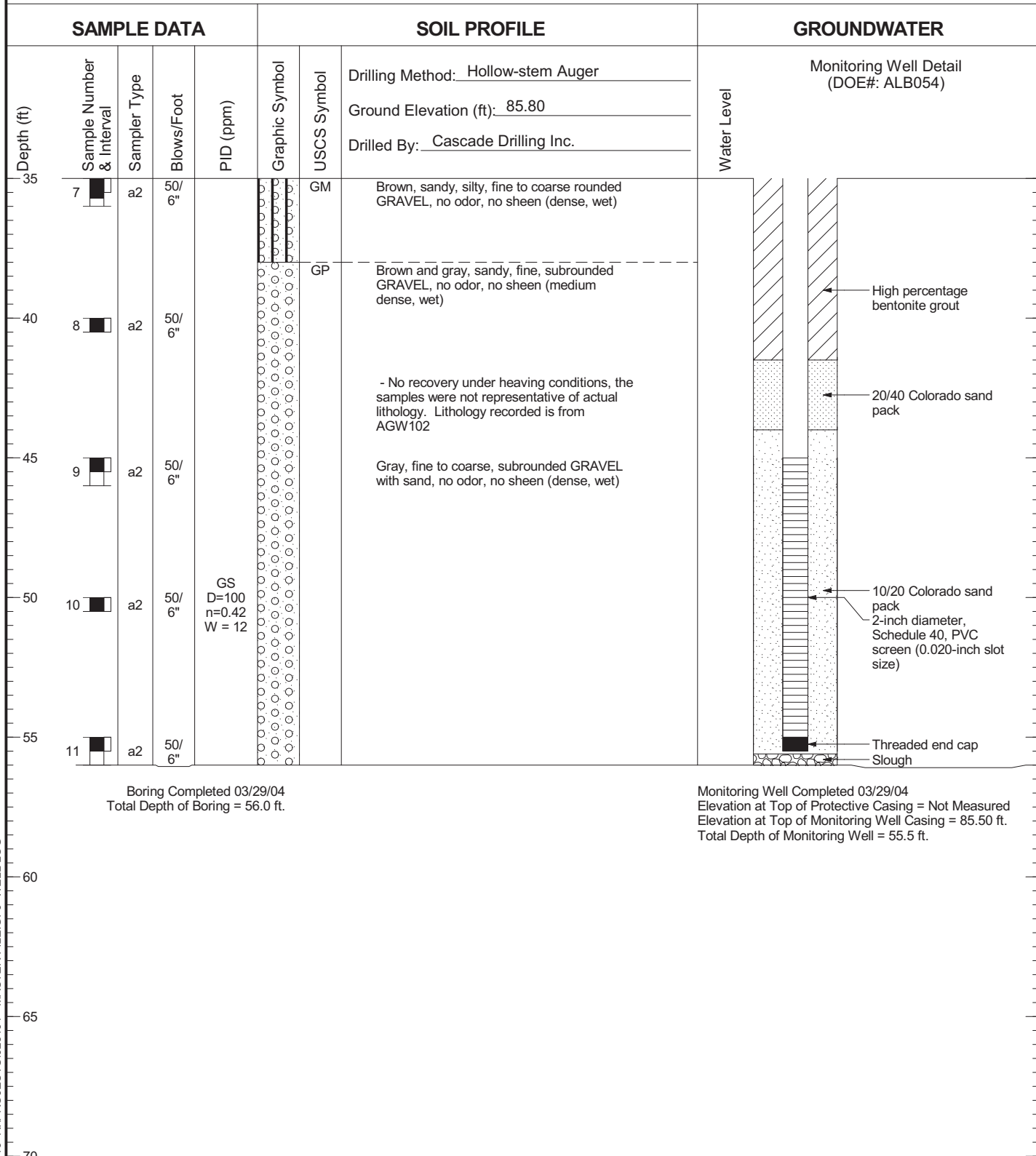


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW101

Figure  
C-77  
(1 of 2)

# AGW101



Boring Completed 03/29/04  
Total Depth of Boring = 56.0 ft.

Monitoring Well Completed 03/29/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 85.50 ft.  
Total Depth of Monitoring Well = 55.5 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.
  4. DOE Unique Well Number: ALB054

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

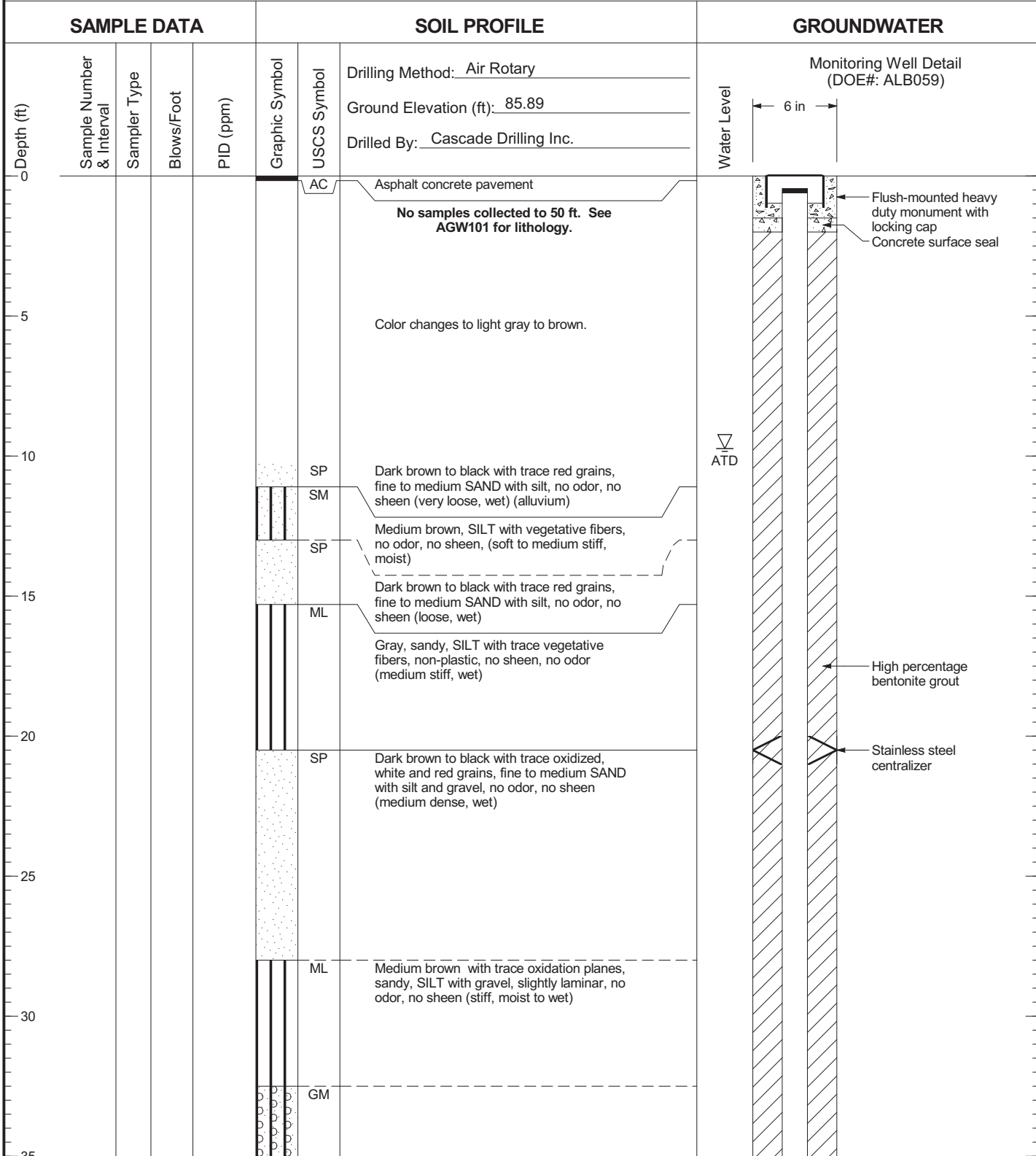


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW101

Figure  
C-77  
(2 of 2)

# AGW102



- 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. DOE Unique Well Number: ALB059

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

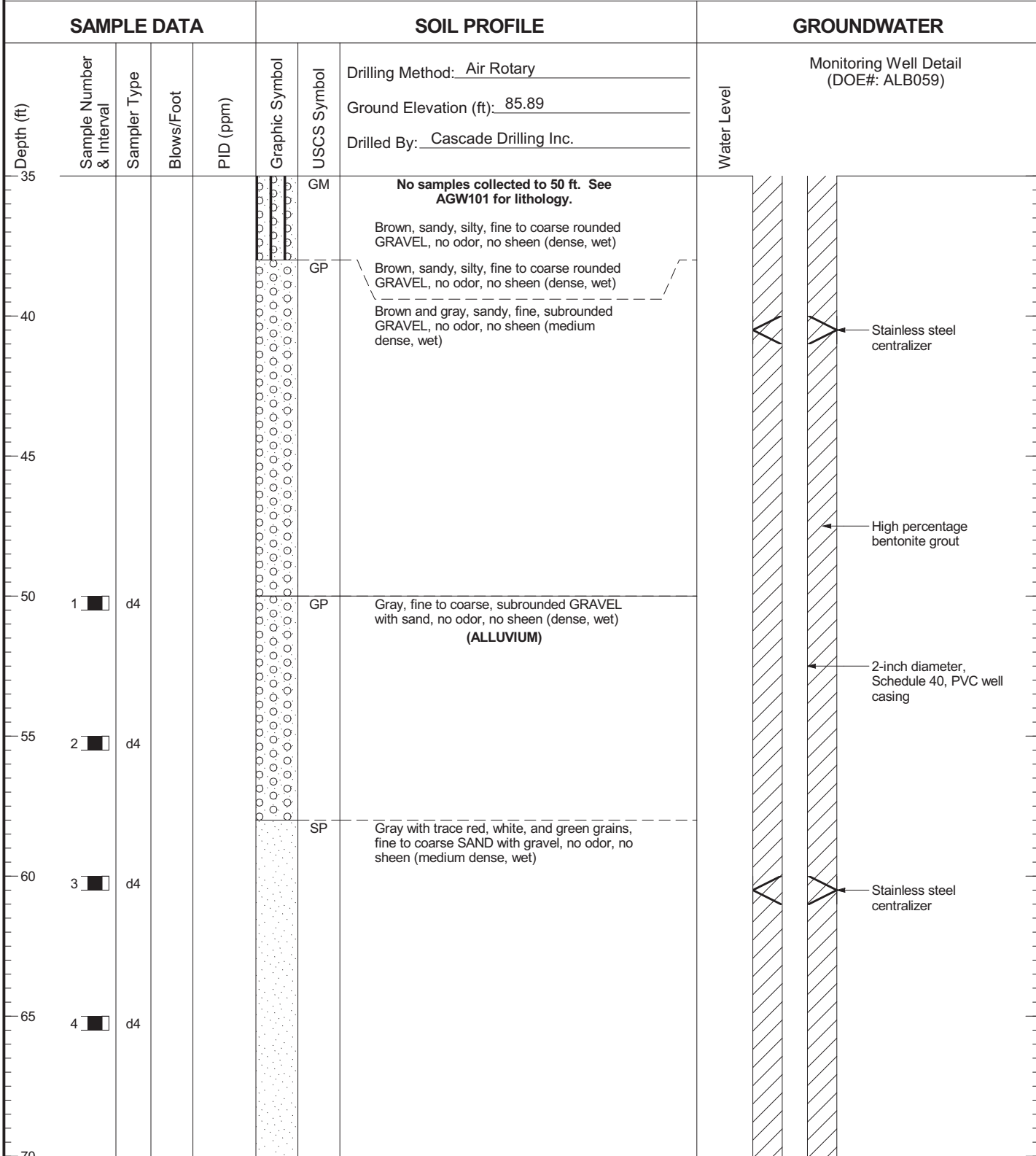


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW102

Figure  
C-78  
(1 of 4)

# AGW102

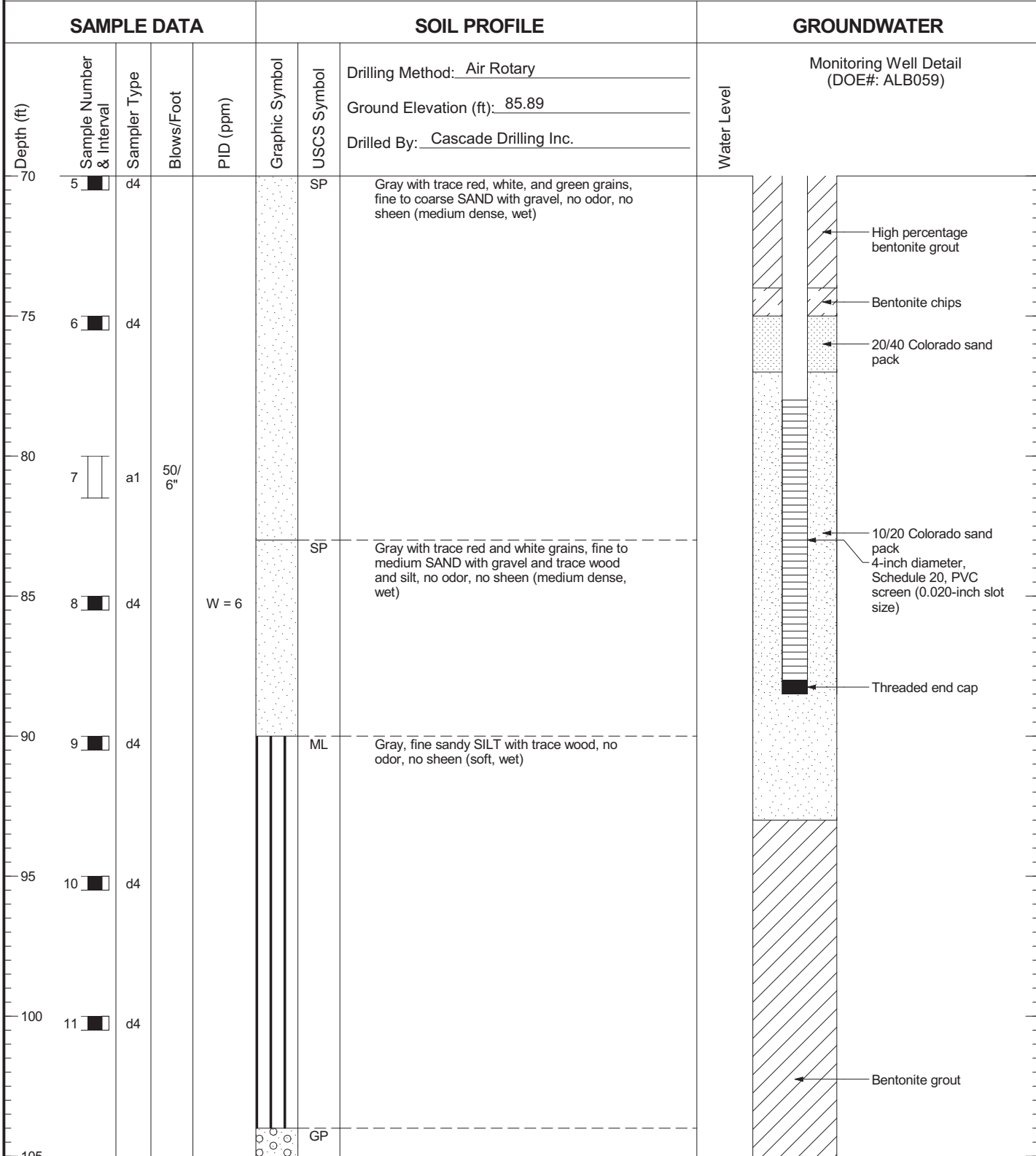


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: ALB059

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW102

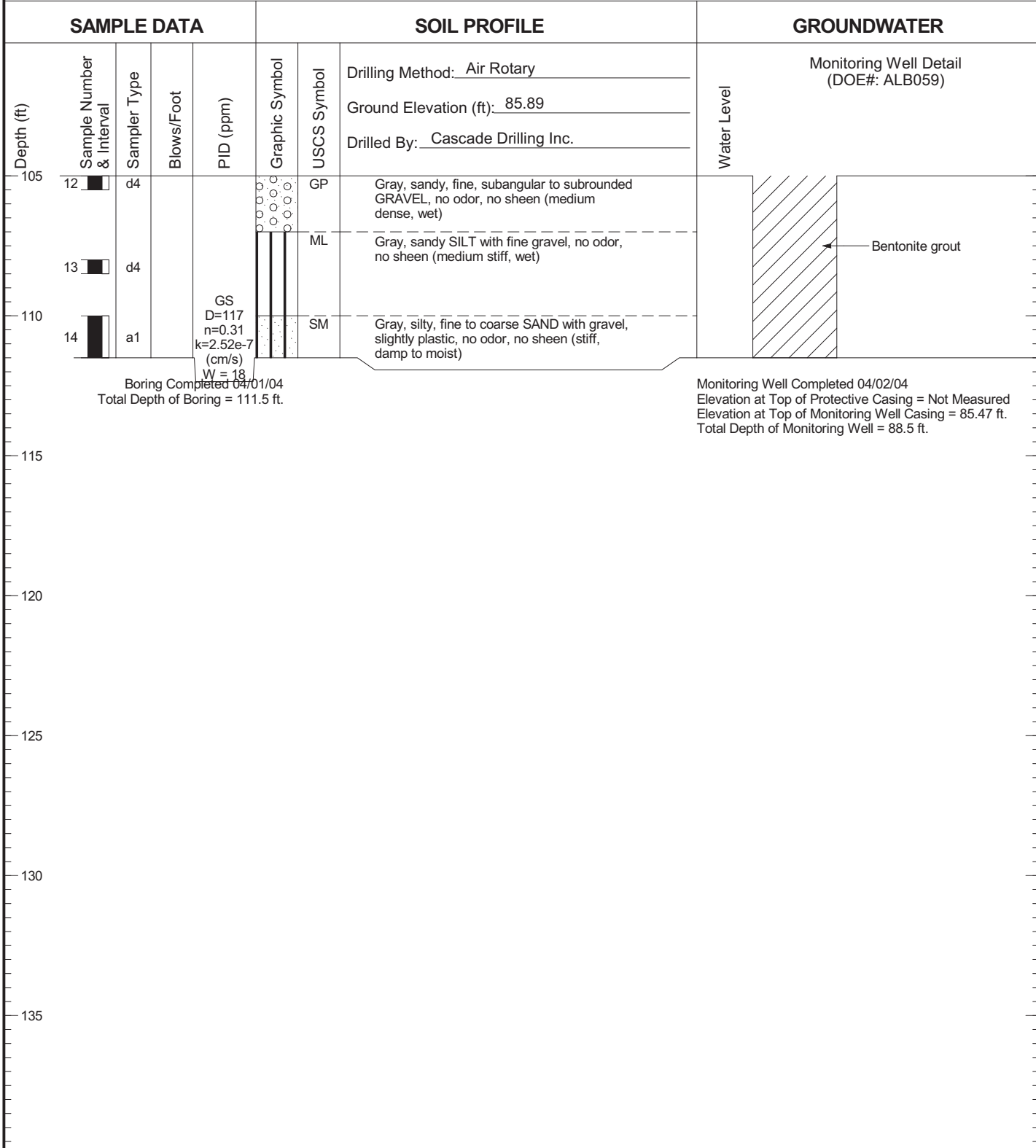


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: ALB059

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW102

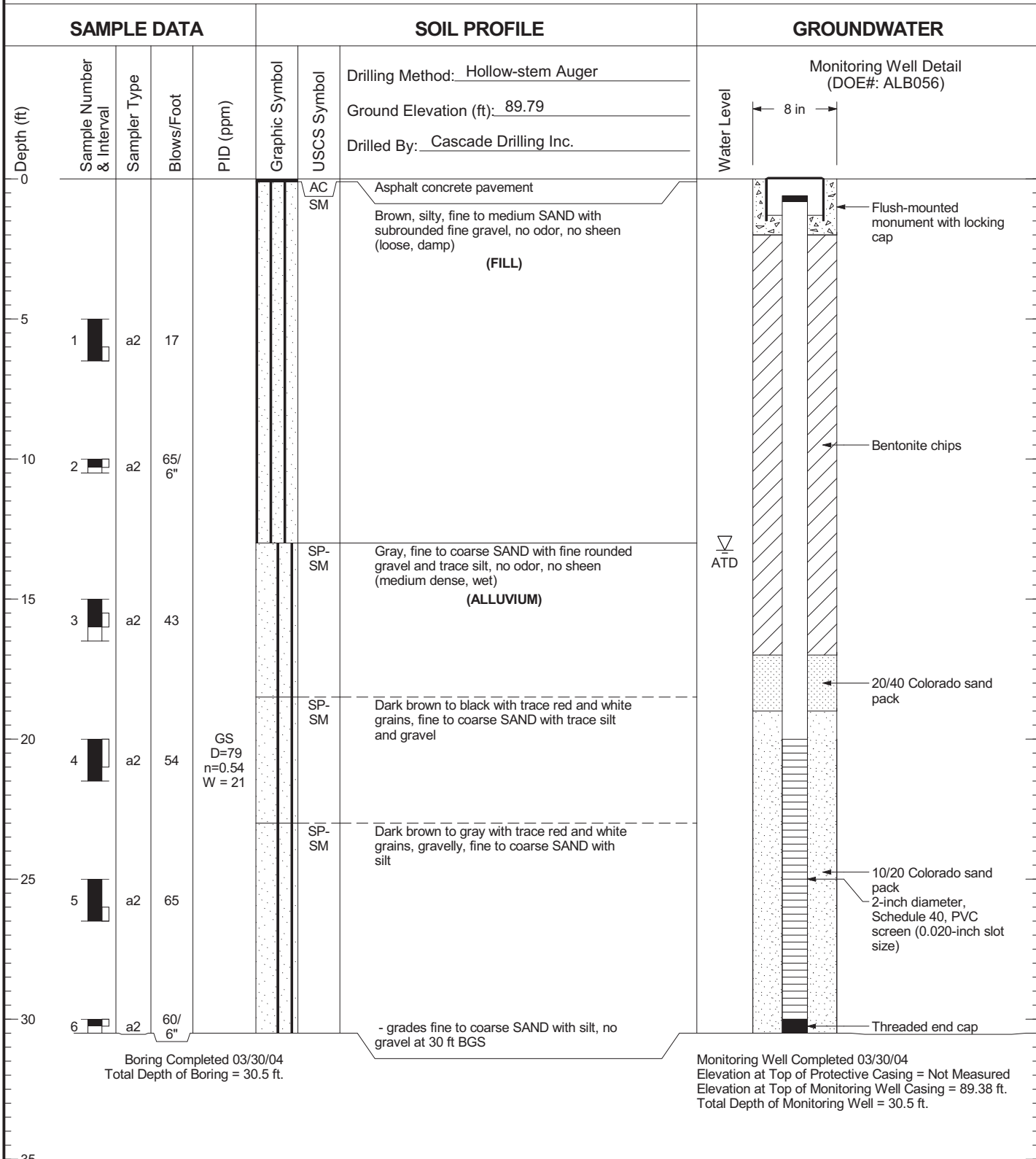


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: ALB059

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW103



- 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. DOE Unique Well Number: ALB056

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

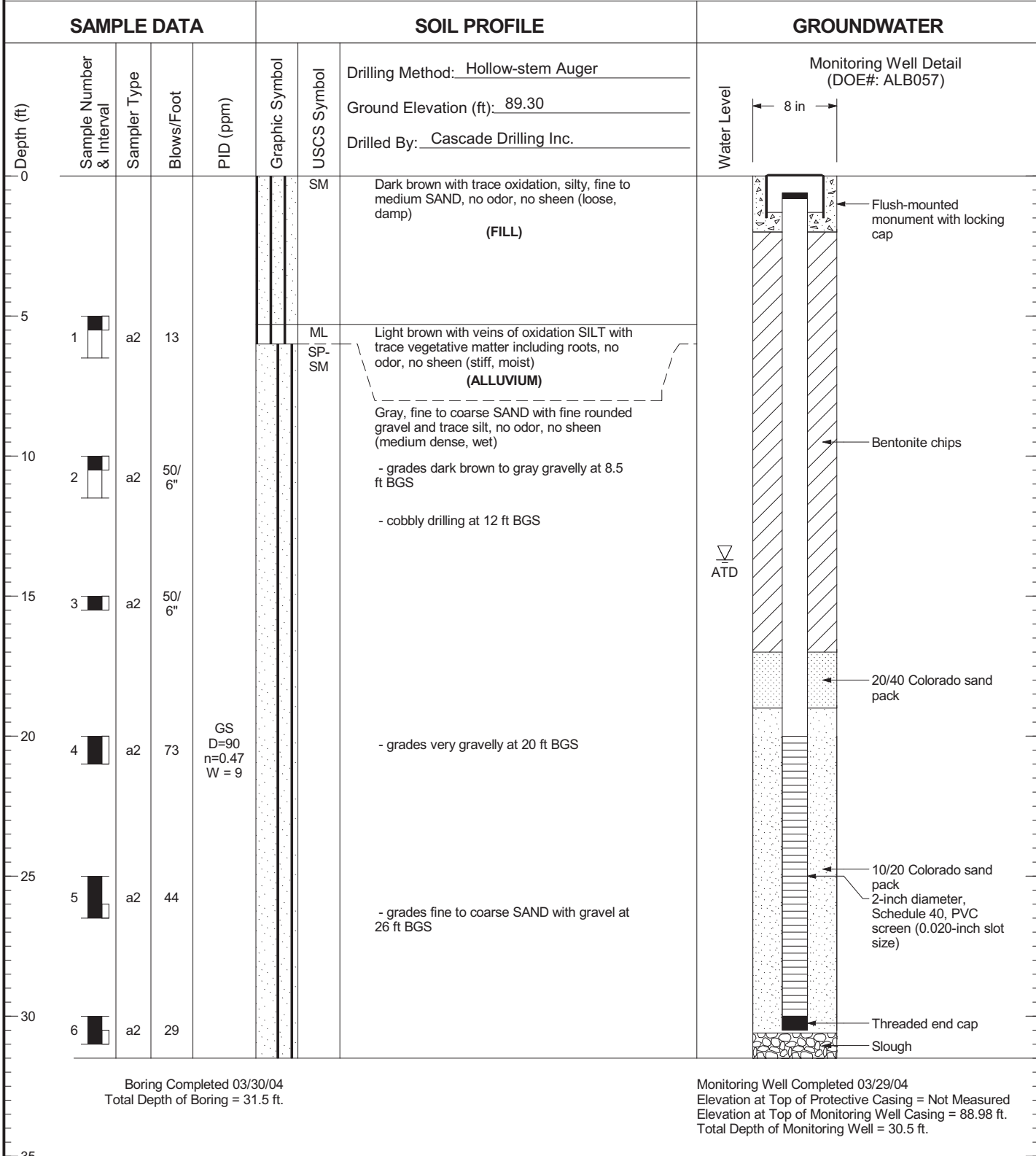


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW103

Figure  
**C-79**

# AGW104



- 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. DOE Unique Well Number: ALB057

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



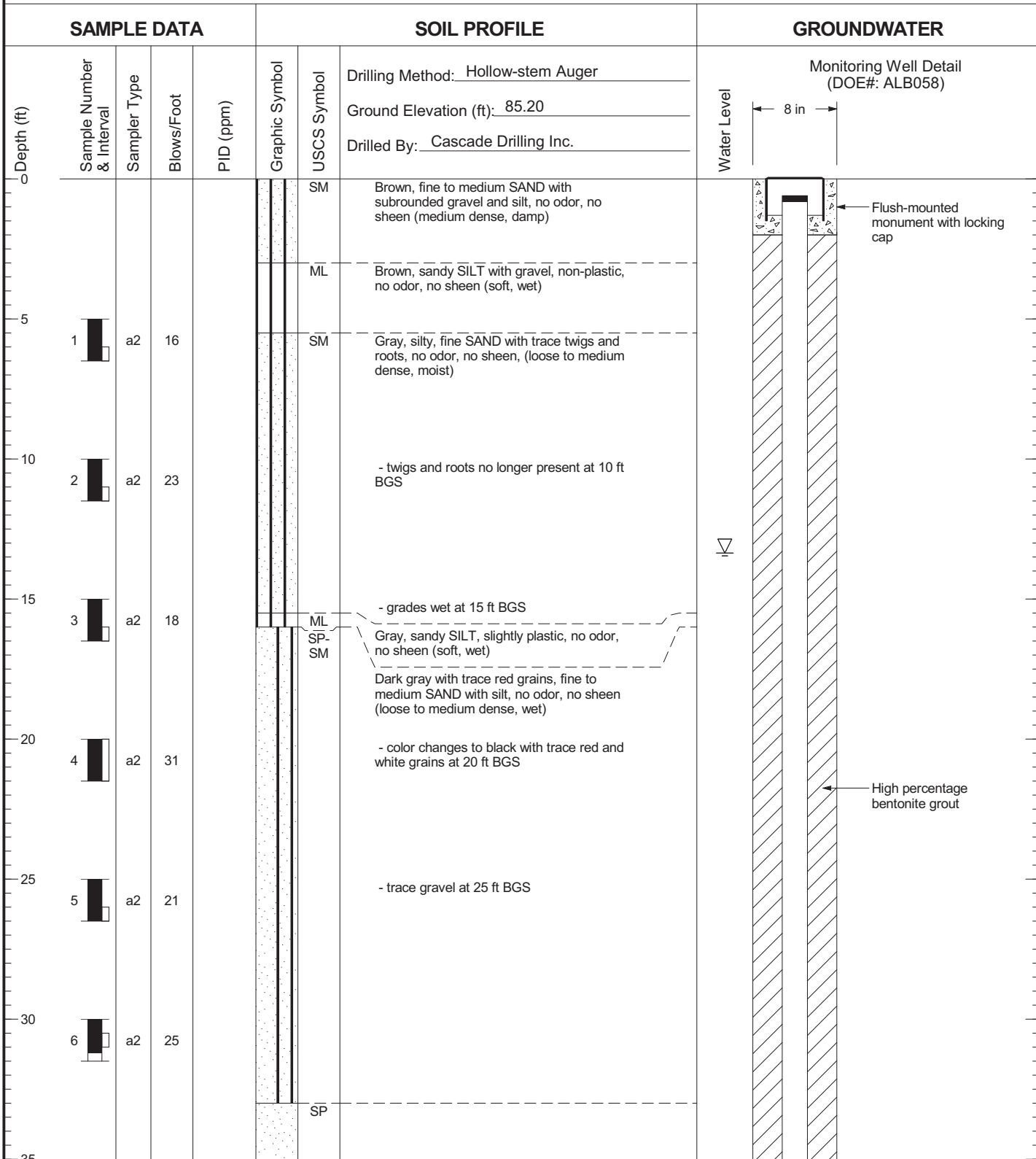
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW104

Figure  
**C-80**



# AGW105



- 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. DOE Unique Well Number: ALB058

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

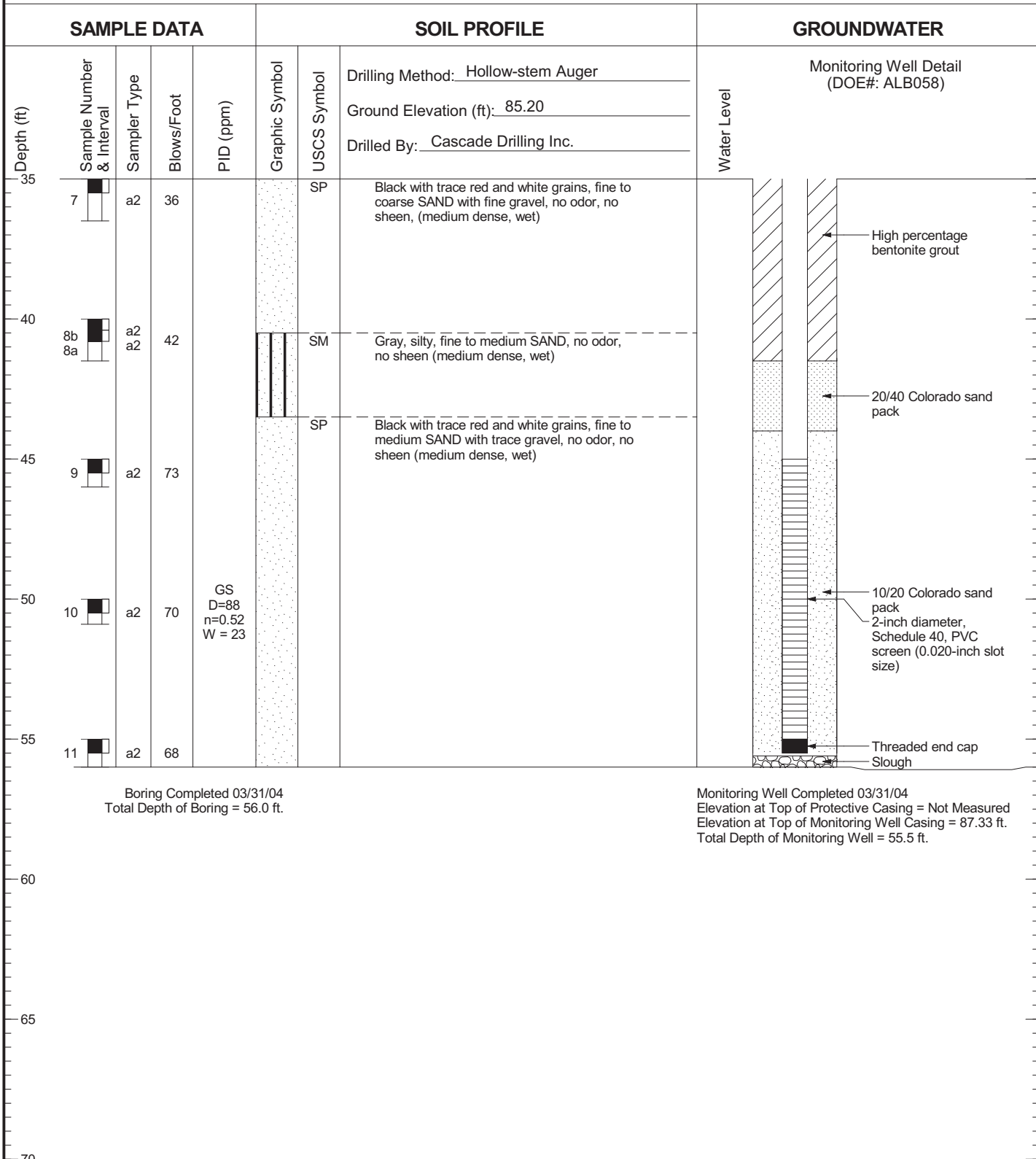


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Auburn, Washington

Log of Monitoring Well AGW105

Figure  
C-81  
(1 of 2)

# AGW105



025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: ALB058



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Auburn, Washington

Log of Monitoring Well AGW105

Figure  
C-81  
(2 of 2)

# AGW106R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)

Sample Number & Interval

Sampler Type

Blows/Foot

PID (ppm)

Graphic Symbol

USCS Symbol

Drilling Method: Hollow-stem Auger

Ground Elevation (ft): 91.41

Drilled By: Cascade Drilling Inc.

Monitoring Well Detail  
(DOE#: ALN400)

Water Level

8 in

0

5

10

15

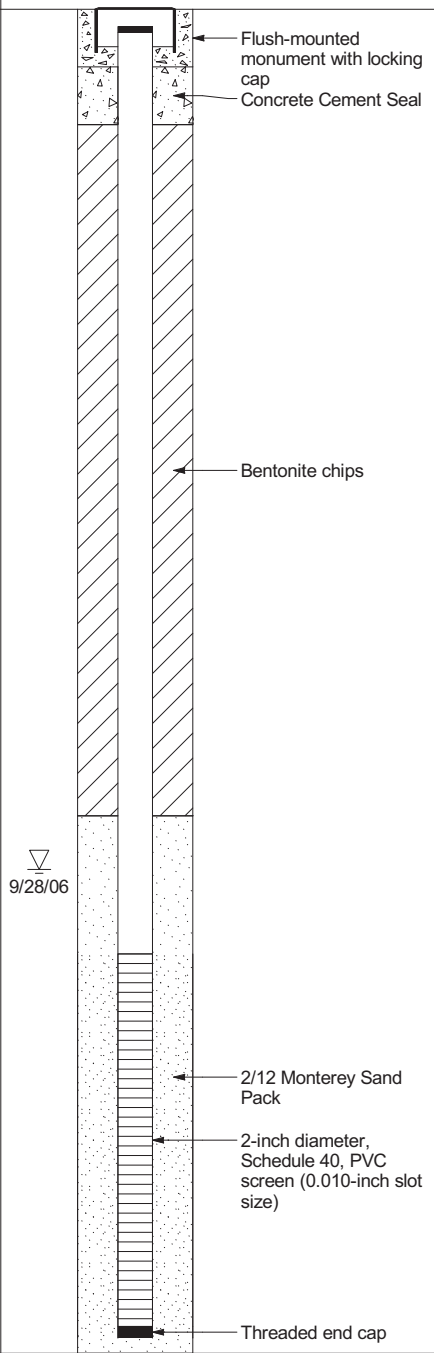
20

25

30

35

**For lithology see well log for AGW106  
(Decommissioned)**



- 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. DOE Unique Well Number: ALN400

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW106R

Figure  
C-82  
(1 of 2)

# AGW106R

## 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>91.41</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: ALN400)
------------	--------------------------	--------------	------------	-----------	----------------	-------------	--	-------------	--

Boring Completed 09/28/06  
 Total Depth of Boring = 35.0 ft.

Monitoring Well Completed 09/28/06  
 Elevation at Top of Protective Casing = Not Measured  
 Elevation at Top of Monitoring Well Casing = 90.97 ft.  
 Total Depth of Monitoring Well = 34.6 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. DOE Unique Well Number: ALN400

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
 Investigation  
 Auburn, Washington

Log of Monitoring Well AGW106R

Figure  
**C-82**  
 (2 of 2)

# AGW110R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)

Sample Number & Interval

Sampler Type

Blows/Foot

PID (ppm)

Graphic Symbol

USCS Symbol

Drilling Method: Rotosonic

Ground Elevation (ft): 91.45

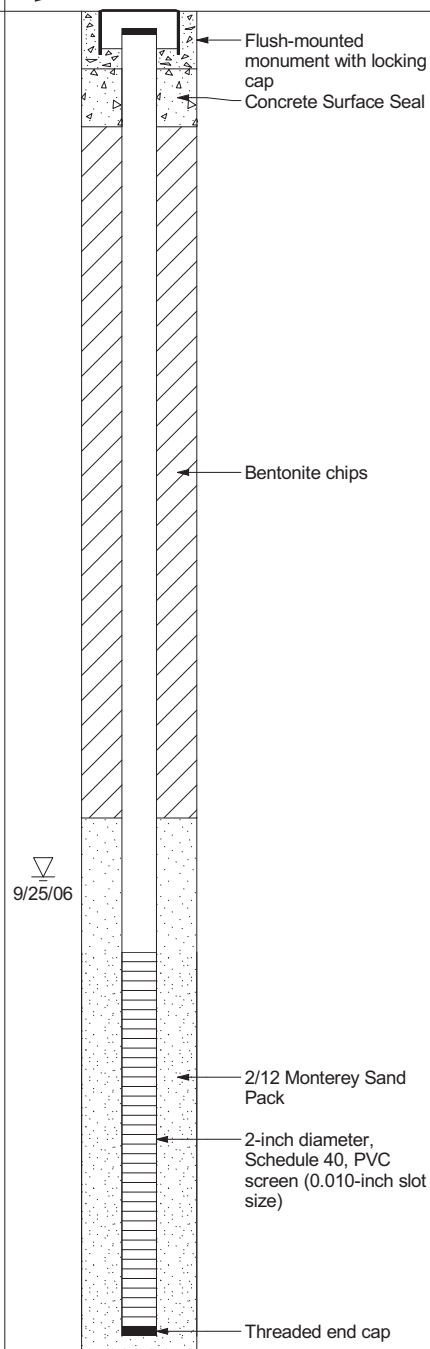
Drilled By: Cascade Drilling Inc.

Monitoring Well Detail  
(DOE#: ALN253)

Water Level

6 in

For lithology see well log for AGW110  
(Decommissioned)



- 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. DOE Unique Well Number: ALN253

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW110R

Figure  
C-83  
(1 of 2)

# AGW110R

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Ground Elevation (ft): <u>91.45</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: ALN253)	
35	Boring Completed 09/25/06 Total Depth of Boring = 35.0 ft.						Monitoring Well Completed 09/25/06 Elevation at Top of Protective Casing = Not Measured Elevation at Top of Monitoring Well Casing = 91.06 ft. Total Depth of Monitoring Well = 34.5 ft.					
40												
45												
50												
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. DOE Unique Well Number: ALN253

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW110R

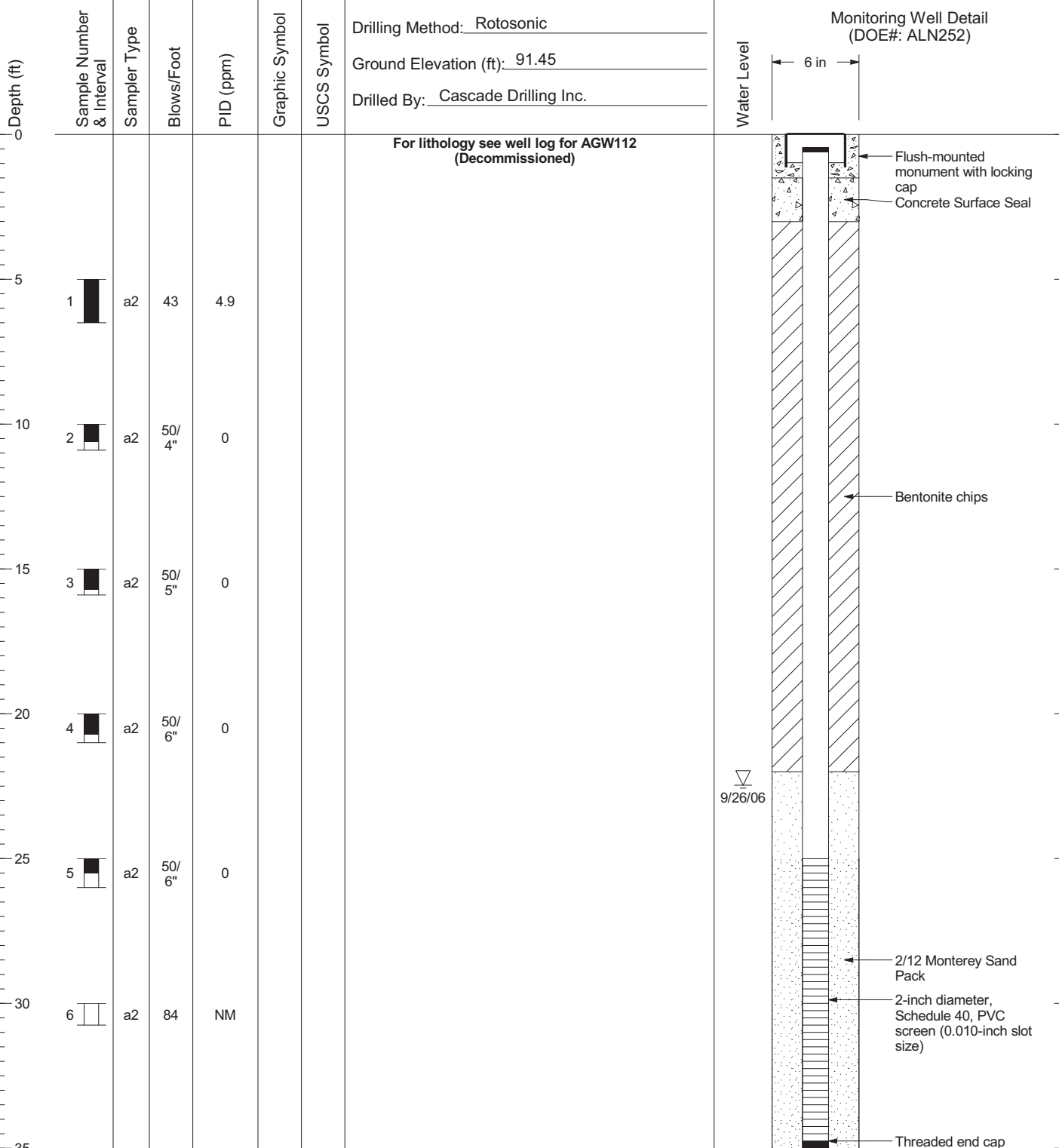
Figure  
C-83  
(2 of 2)

# AGW112R

## 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. DOE Unique Well Number: ALN252

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

### Log of Monitoring Well AGW112R

Figure  
**C-84**  
(1 of 2)

# AGW112R

SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level
							Ground Elevation (ft): <u>91.45</u>	
35							Drilled By: <u>Cascade Drilling Inc.</u>	

Monitoring Well Detail  
(DOE#: ALN252)

Boring Completed 09/25/06  
Total Depth of Boring = 35.5 ft.

Monitoring Well Completed 09/25/06  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 90.96 ft.  
Total Depth of Monitoring Well = 35.0 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. DOE Unique Well Number: ALN252

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW112R

Figure  
C-84  
(2 of 2)

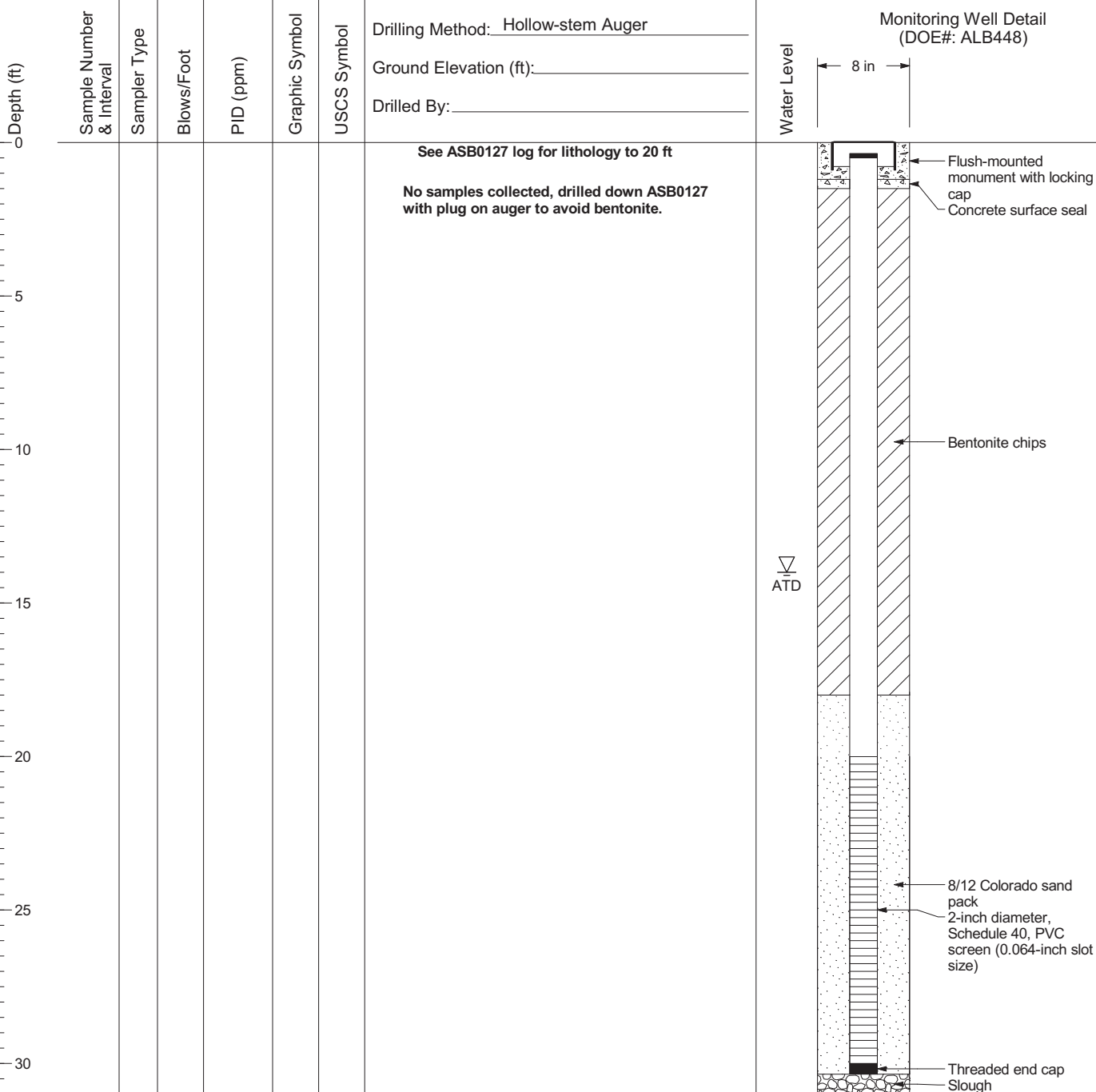


# AGW113

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 06/04/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/04/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.19 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB448

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Log of Monitoring Well AGW113

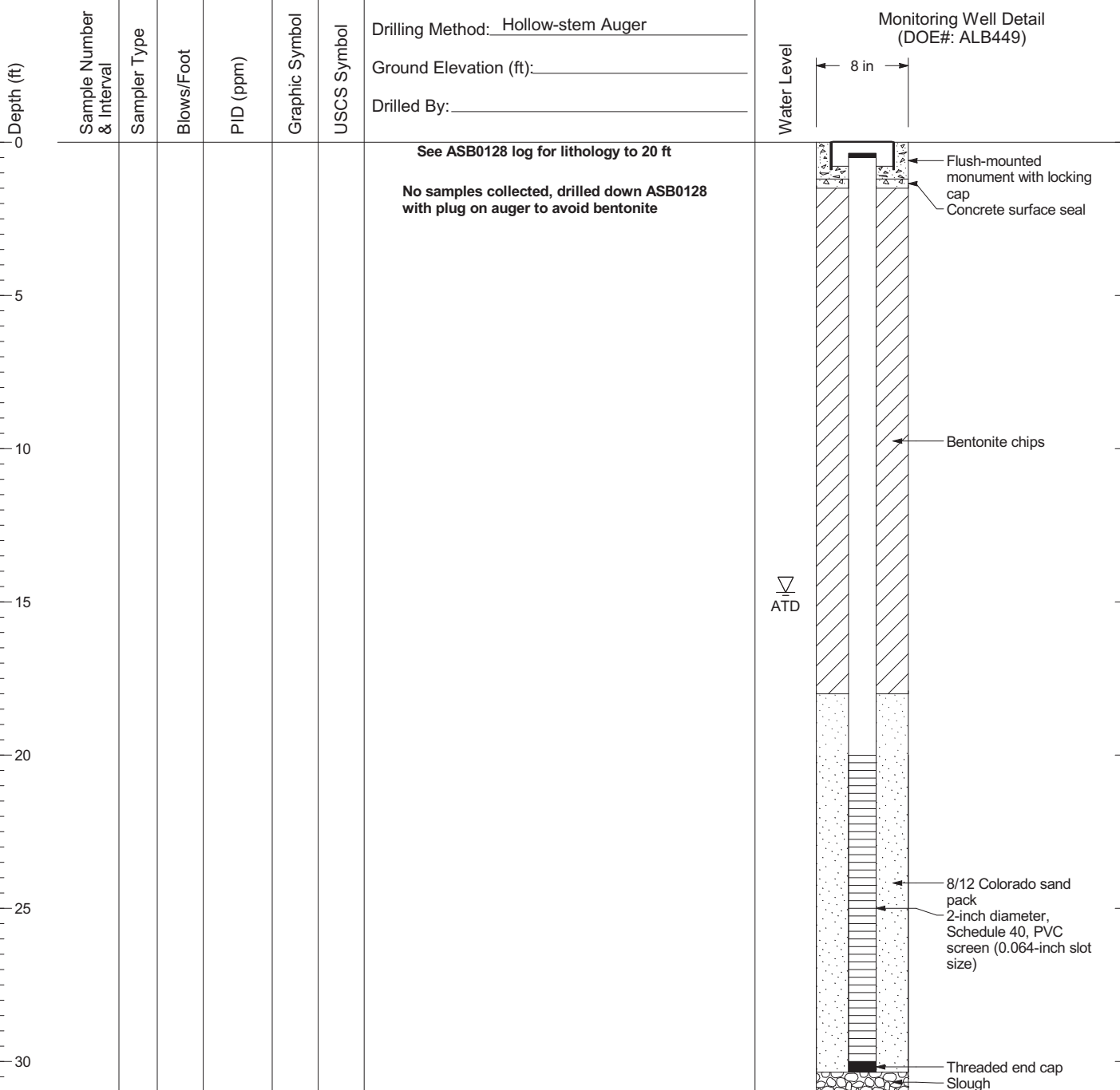
Figure  
**C-85**

# AGW114

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 06/04/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/04/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.45 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB449

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

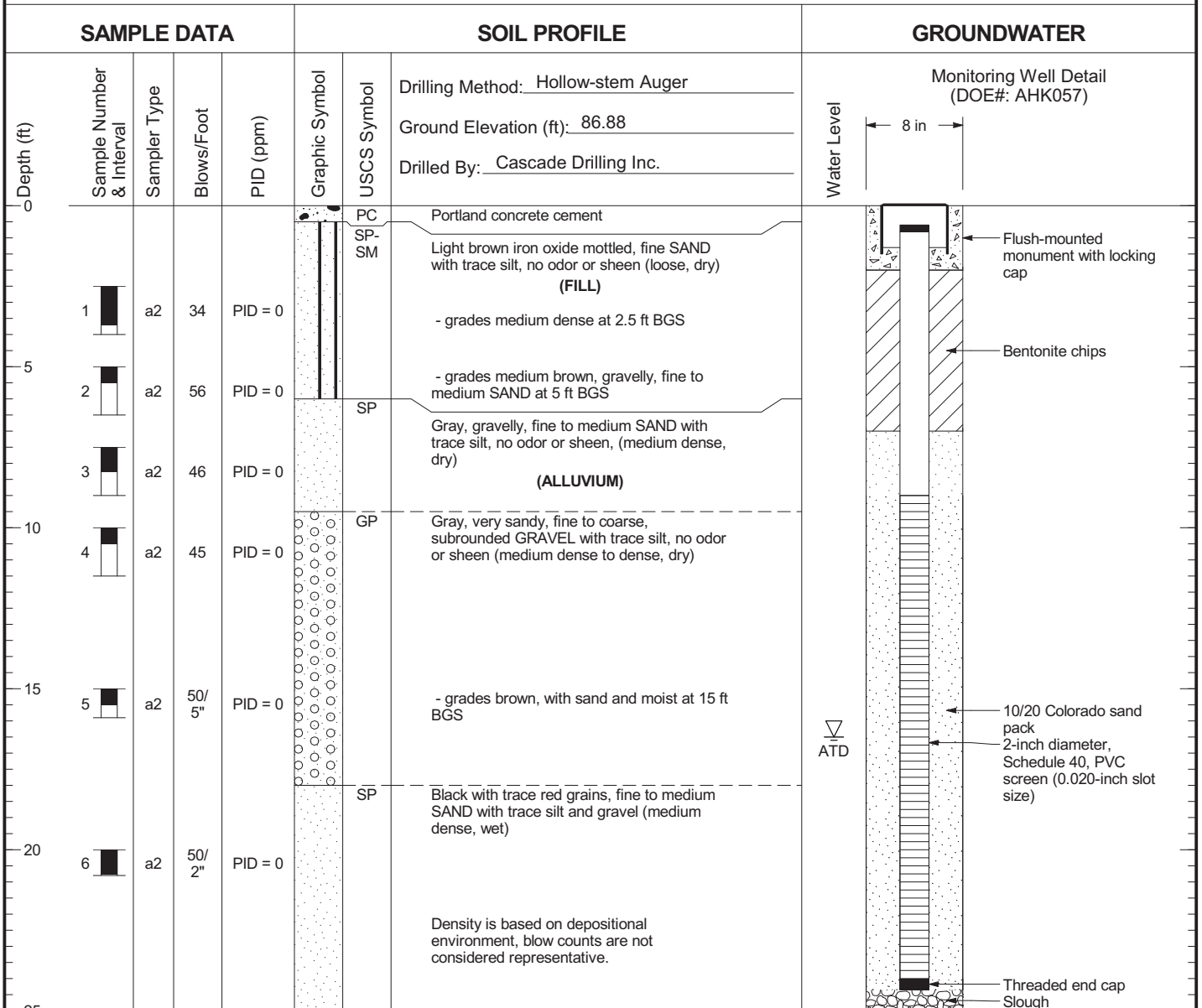


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW114

Figure  
**C-86**

# AGW115



Boring Completed 10/06/04  
Total Depth of Boring = 25.0 ft.

Monitoring Well Completed 10/06/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.53 ft.  
Total Depth of Monitoring Well = 24.0 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. DOE Unique Well Number: AHK057

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

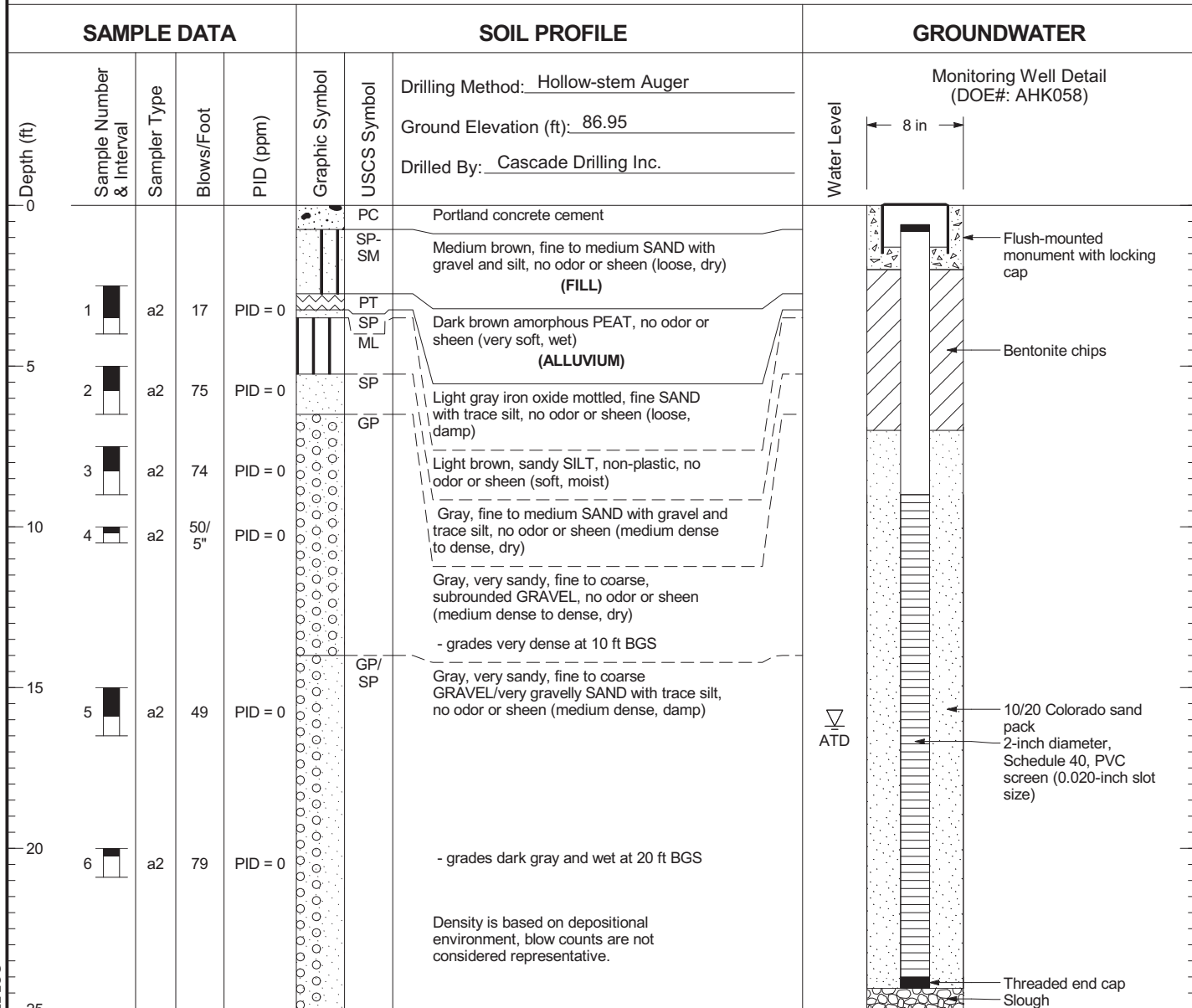


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW115

Figure  
**C-87**

# AGW116



Boring Completed 10/06/04  
Total Depth of Boring = 25.0 ft.

Monitoring Well Completed 10/06/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.69 ft.  
Total Depth of Monitoring Well = 24.0 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. DOE Unique Well Number: AHK058

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

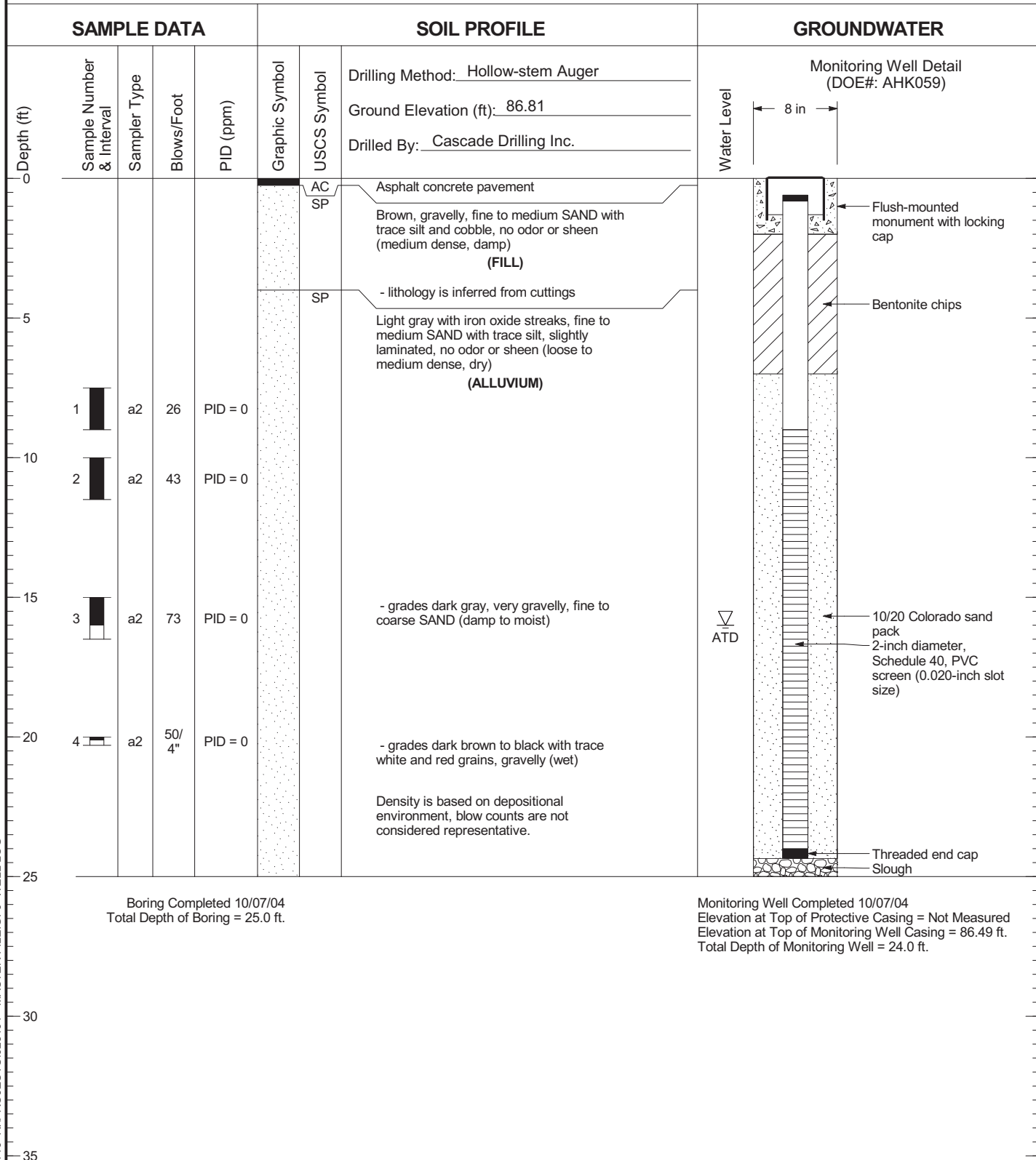


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW116

Figure  
**C-88**

# AGW117



025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: AHK059

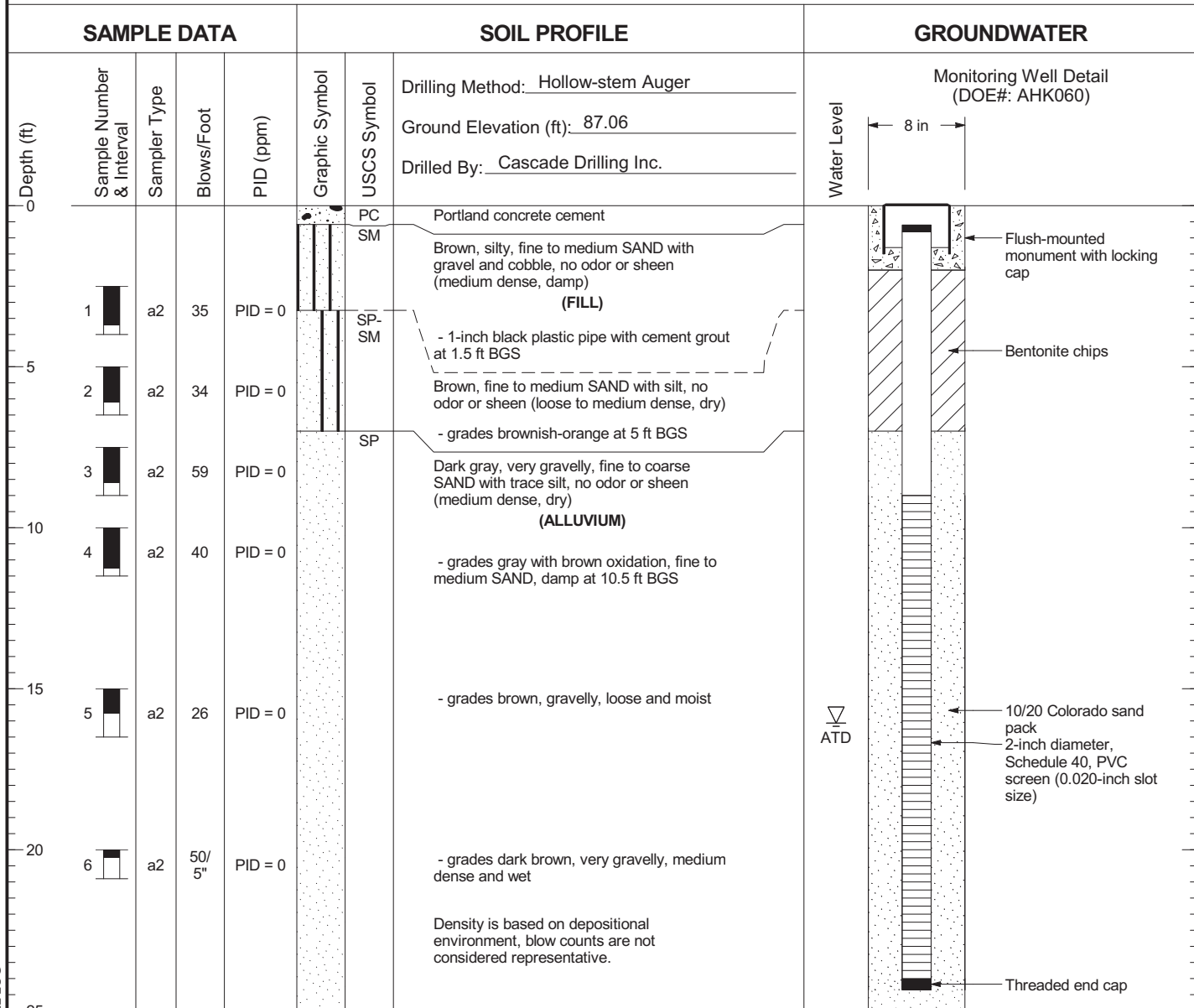


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW117

Figure  
**C-89**

# AGW118



Boring Completed 10/07/04  
Total Depth of Boring = 25.0 ft.

Monitoring Well Completed 10/07/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.78 ft.  
Total Depth of Monitoring Well = 24.0 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. DOE Unique Well Number: AHK060

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

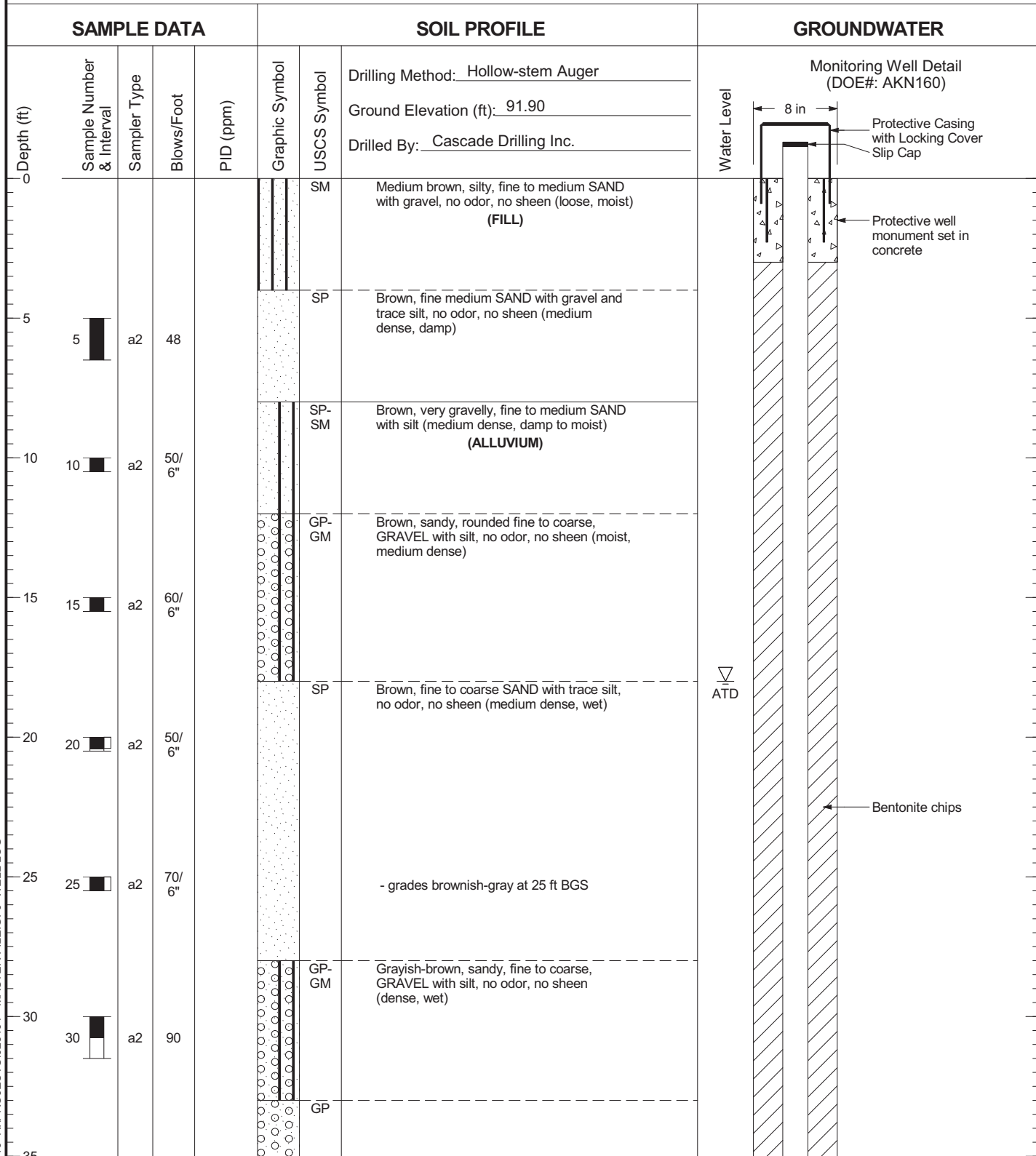


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW118

Figure  
**C-90**

# AGW119



- 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. DOE Unique Well Number: **AKN160**

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

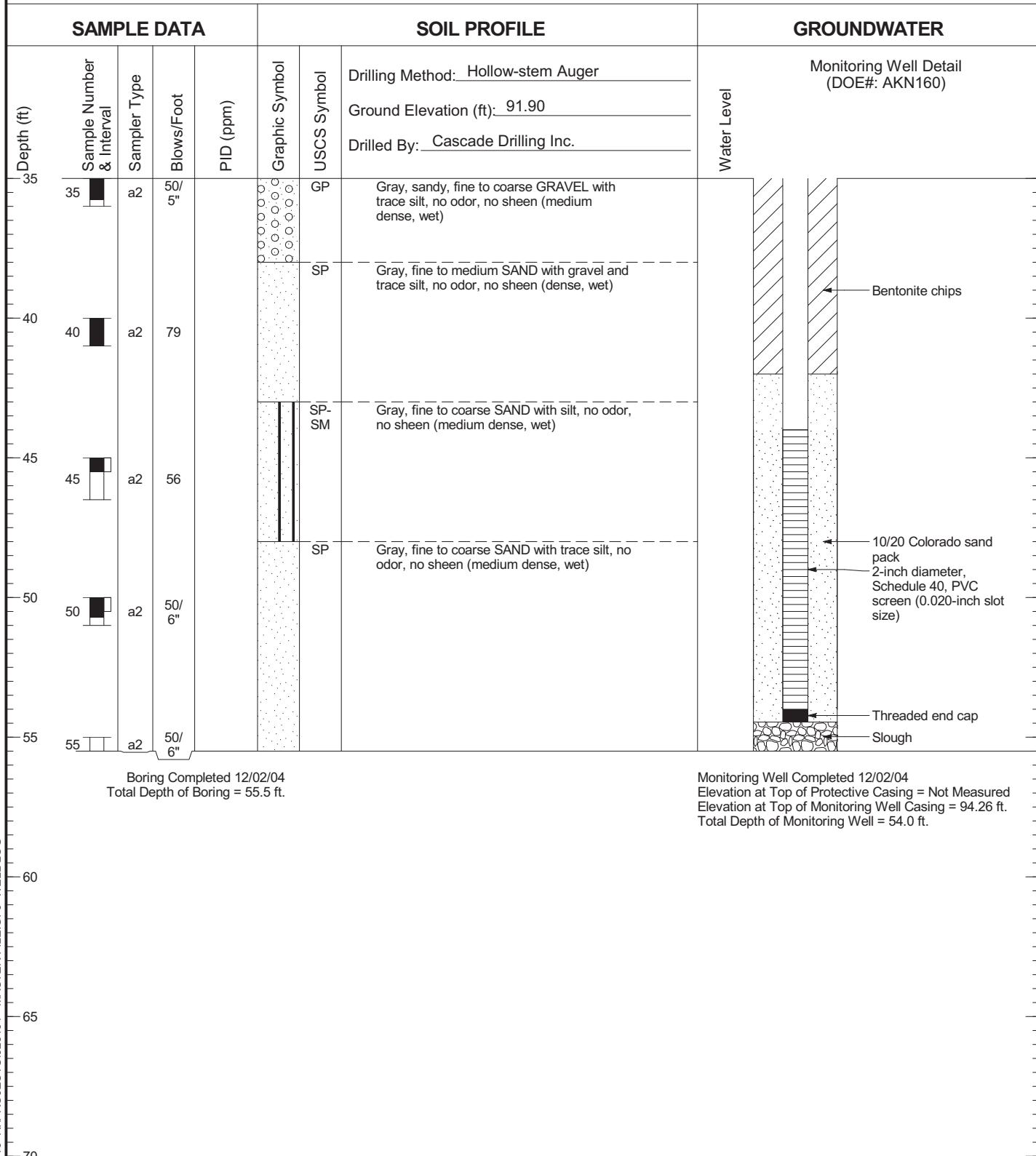


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW119

Figure  
C-91  
(1 of 2)

# AGW119



Boring Completed 12/02/04  
Total Depth of Boring = 55.5 ft.

Monitoring Well Completed 12/02/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 94.26 ft.  
Total Depth of Monitoring Well = 54.0 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. DOE Unique Well Number: AKN160

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW119

Figure  
C-91  
(2 of 2)



# AGW120

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)

Sample Number & Interval

Sampler Type

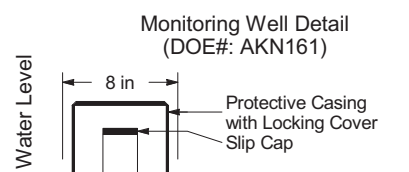
Blows/Foot

PID (ppm)

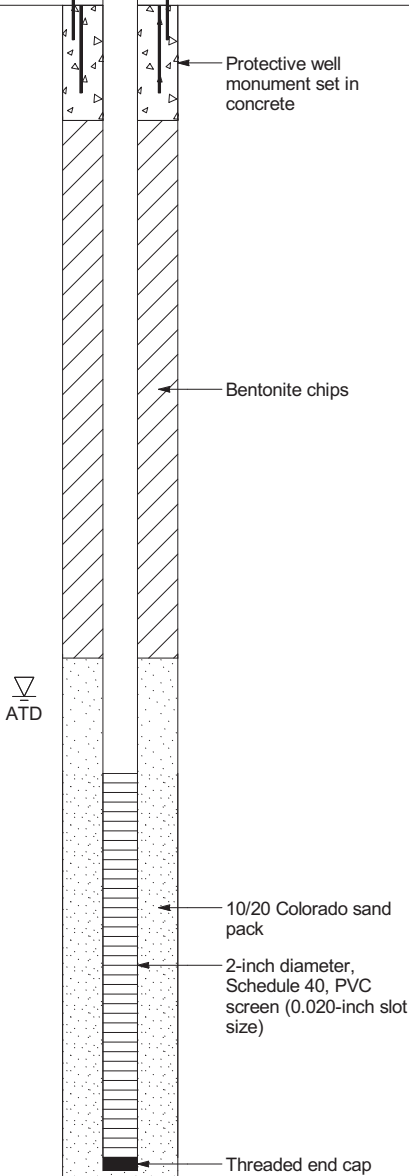
Drilling Method: Hollow-stem Auger

Ground Elevation (ft): 91.80

Drilled By: Cascade Drilling Inc.



**Samples not collected, see AGW119 for lithology.**



Boring Completed 12/02/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 12/02/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 94.24 ft.  
Total Depth of Monitoring Well = 30.5 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.
  4. DOE Unique Well Number: **AKN161**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

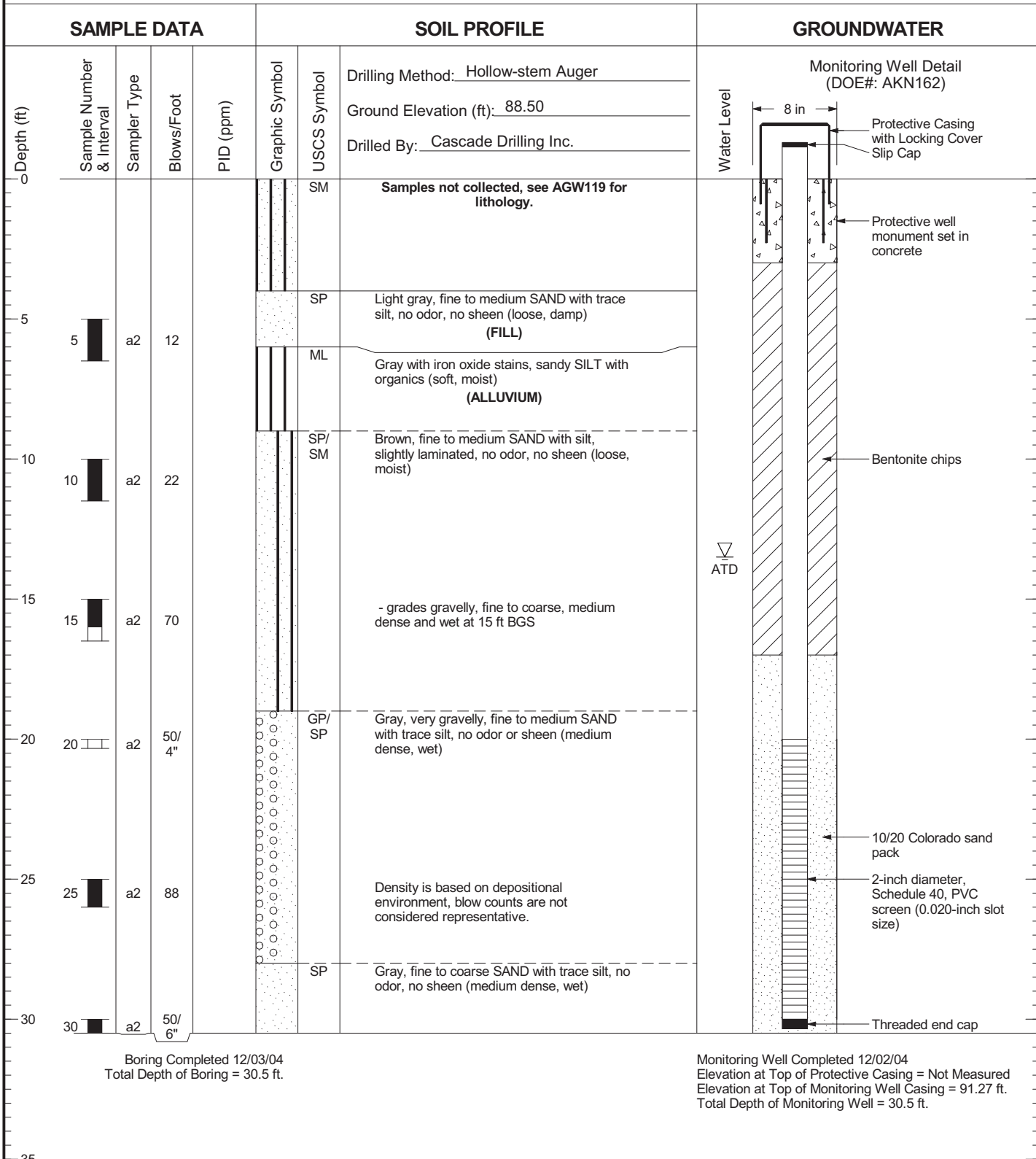


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW120

Figure  
**C-92**

# AGW121



Boring Completed 12/03/04  
Total Depth of Boring = 30.5 ft.

Monitoring Well Completed 12/02/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 91.27 ft.  
Total Depth of Monitoring Well = 30.5 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.
  4. DOE Unique Well Number: AKN162

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW121

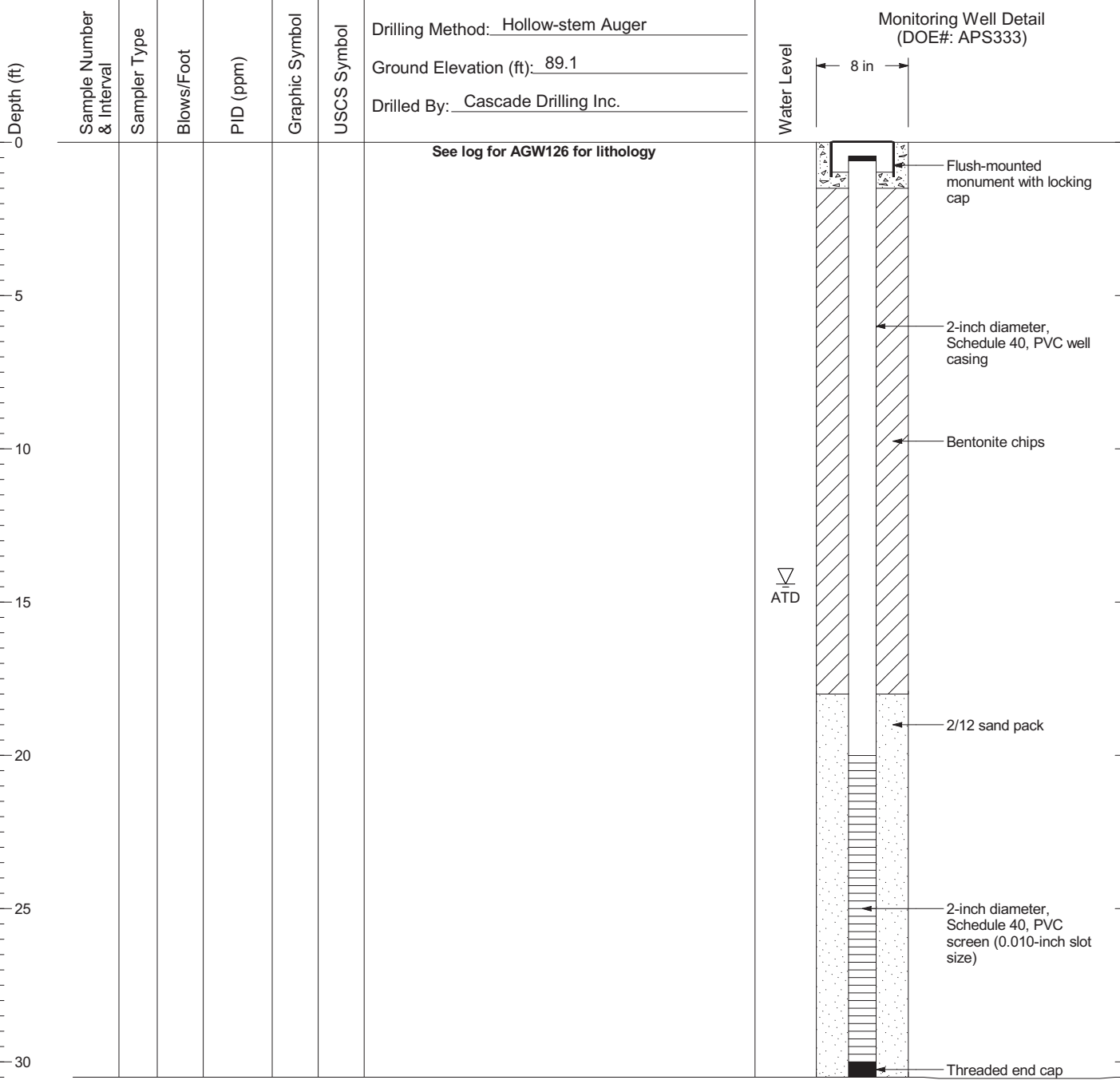
Figure  
**C-93**

# AGW125

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 03/20/07  
Total Depth of Boring = 30.5 ft.

Monitoring Well Completed 03/20/07  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 88.85 ft.  
Total Depth of Monitoring Well = 30.5 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.
  4. DOE Unique Well Number: APS333

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

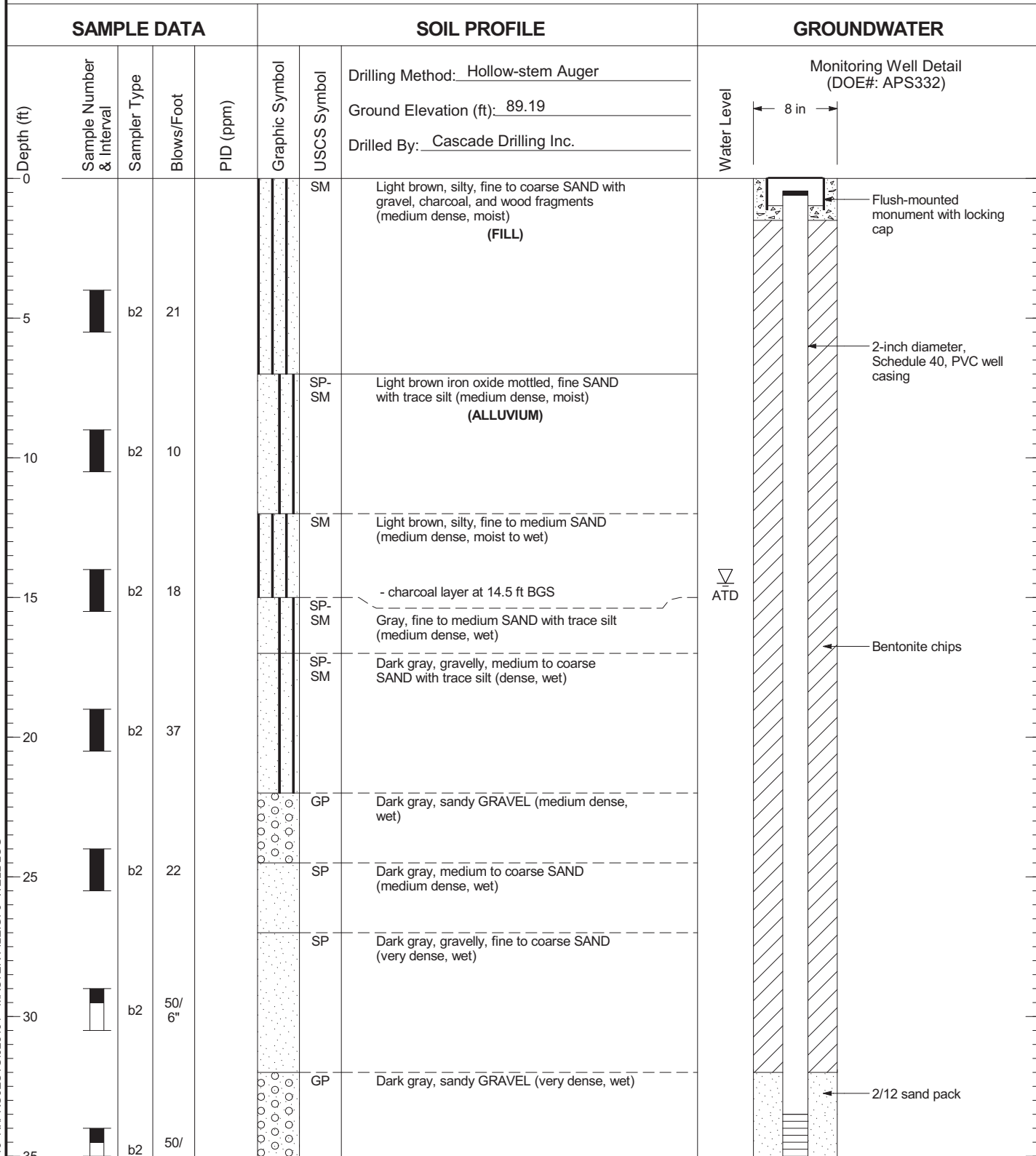


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW125

Figure  
**C-94**

# AGW126



- 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. DOE Unique Well Number: APS332

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

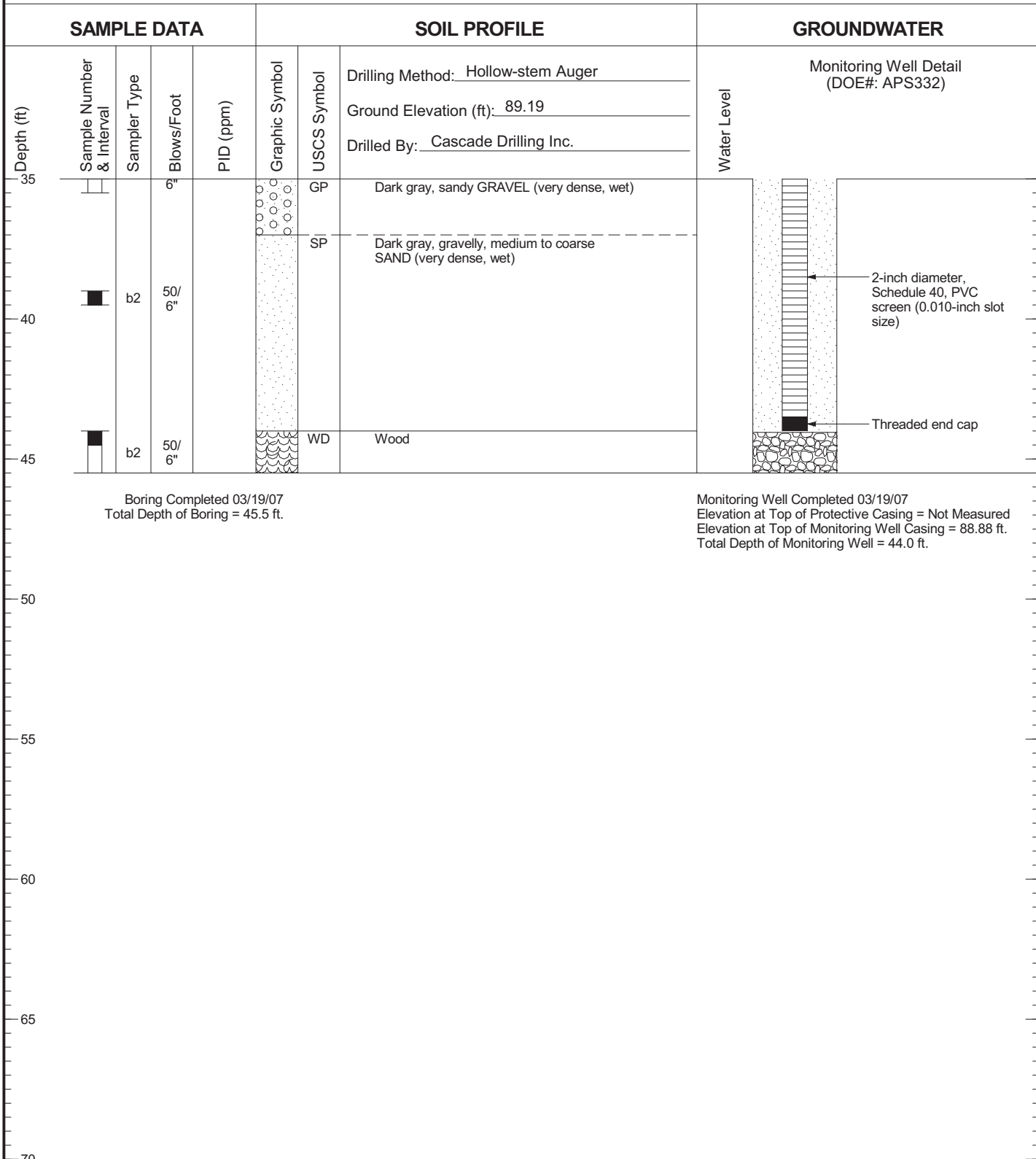


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW126

Figure  
C-95  
(1 of 2)

# AGW126



Boring Completed 03/19/07  
Total Depth of Boring = 45.5 ft.

Monitoring Well Completed 03/19/07  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 88.88 ft.  
Total Depth of Monitoring Well = 44.0 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. DOE Unique Well Number: APS332

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

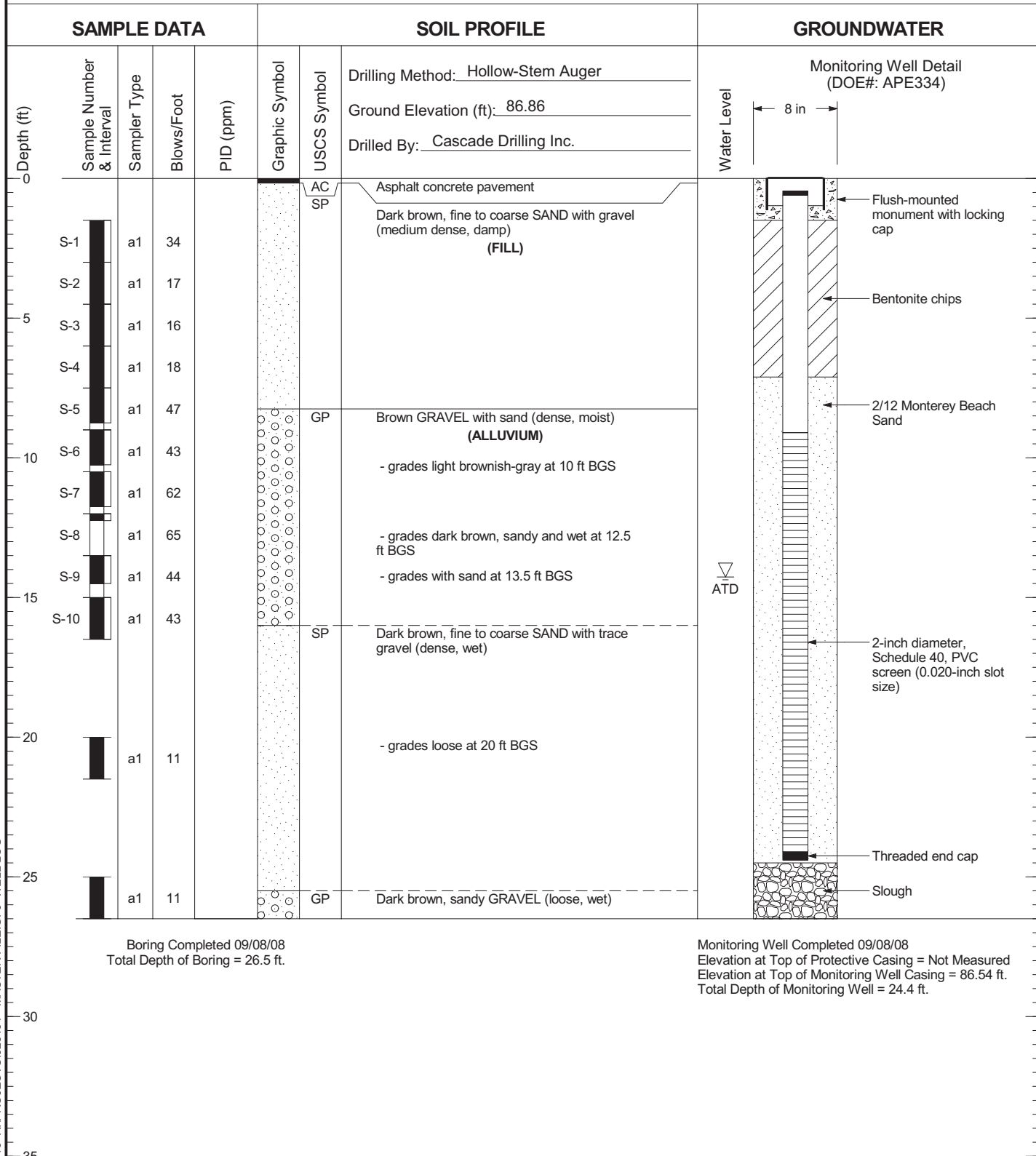


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW126

Figure  
C-95  
(2 of 2)

# AGW127



Boring Completed 09/08/08  
Total Depth of Boring = 26.5 ft.

Monitoring Well Completed 09/08/08  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.54 ft.  
Total Depth of Monitoring Well = 24.4 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. DOE Unique Well Number: APE334

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

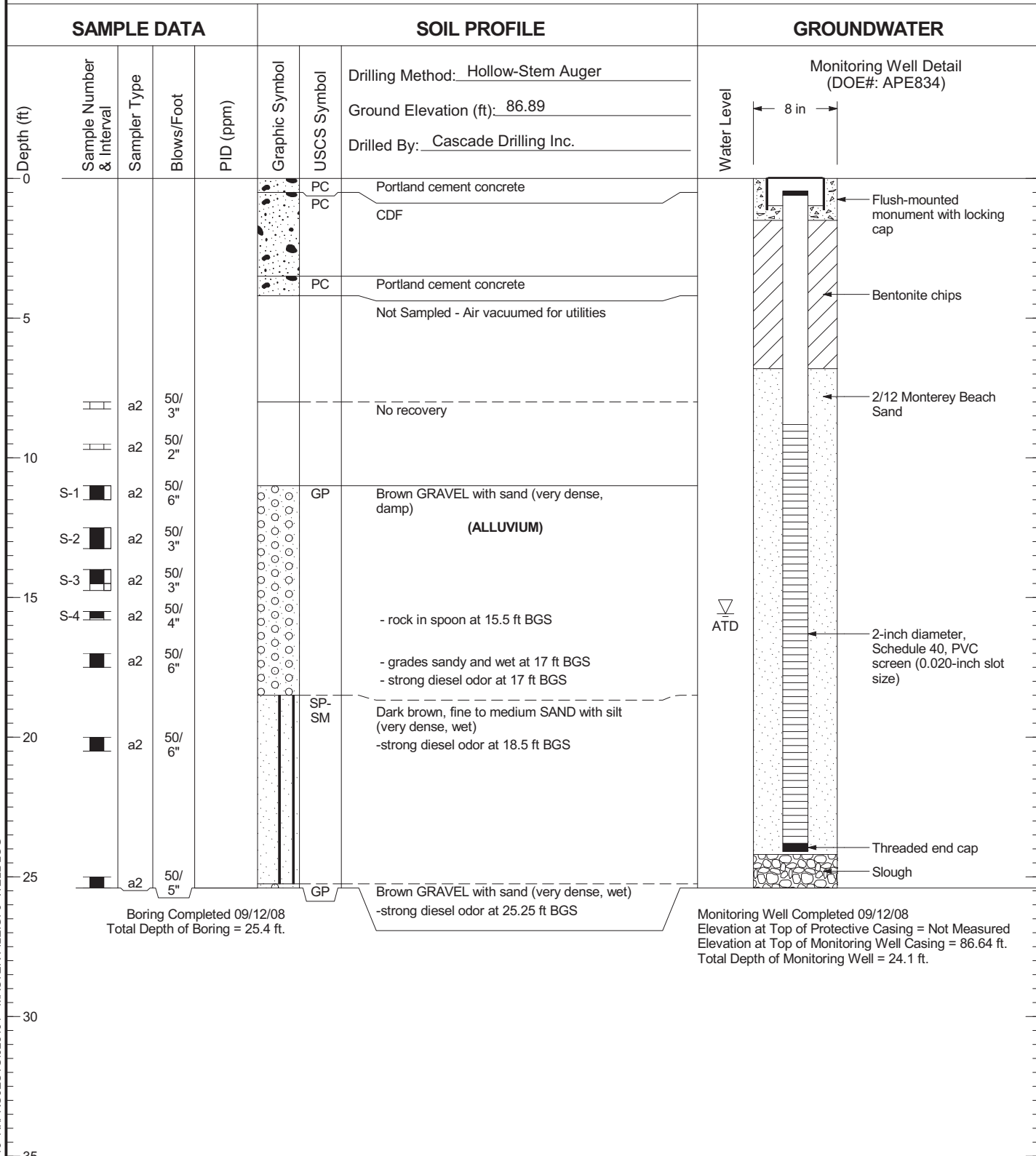


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW127

Figure  
**C-96**

# AGW128



- 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. DOE Unique Well Number: APE834

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

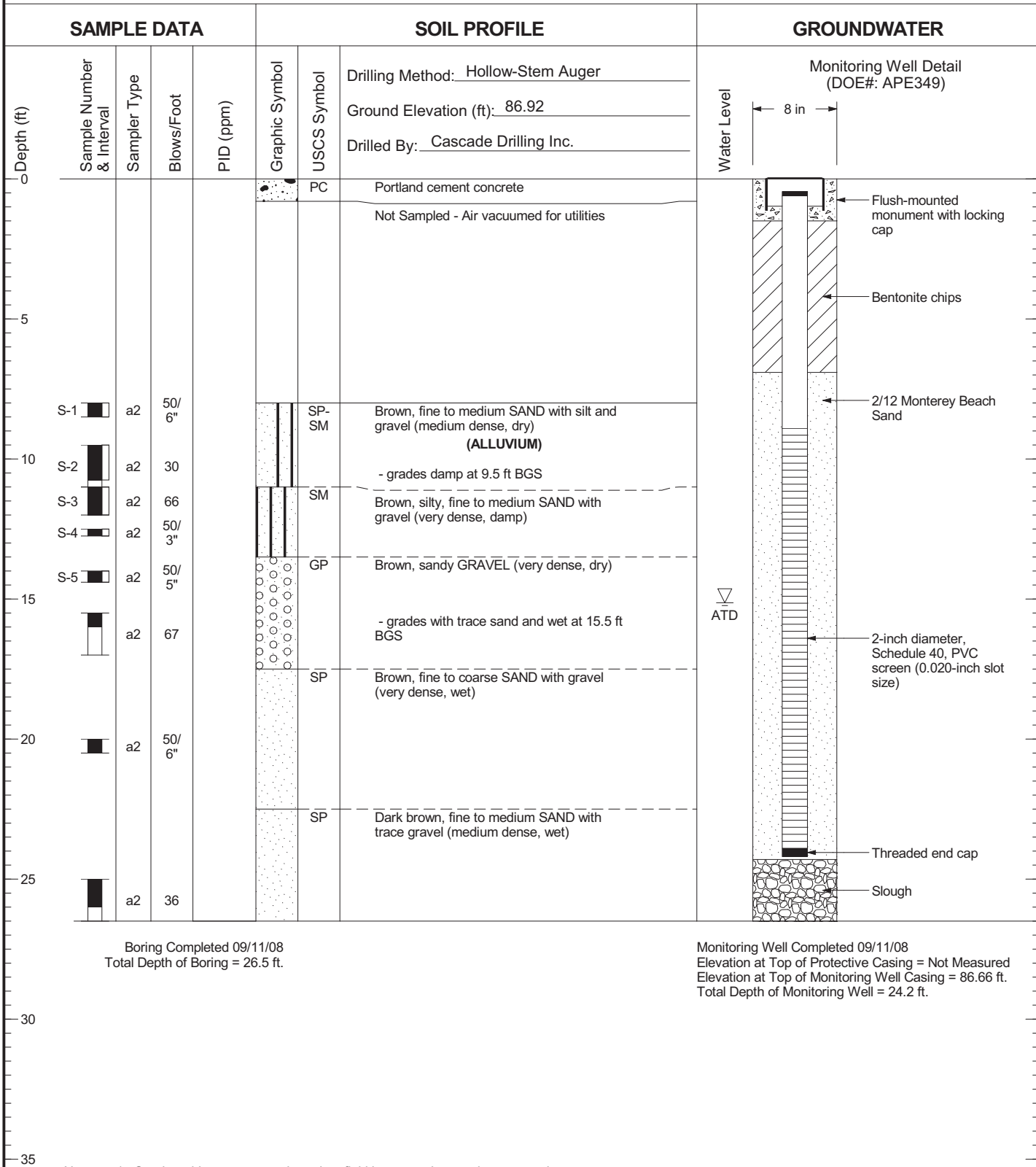


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW128

Figure  
**C-97**

# AGW129



Boring Completed 09/11/08  
Total Depth of Boring = 26.5 ft.

Monitoring Well Completed 09/11/08  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.66 ft.  
Total Depth of Monitoring Well = 24.2 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. DOE Unique Well Number: APE349

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG



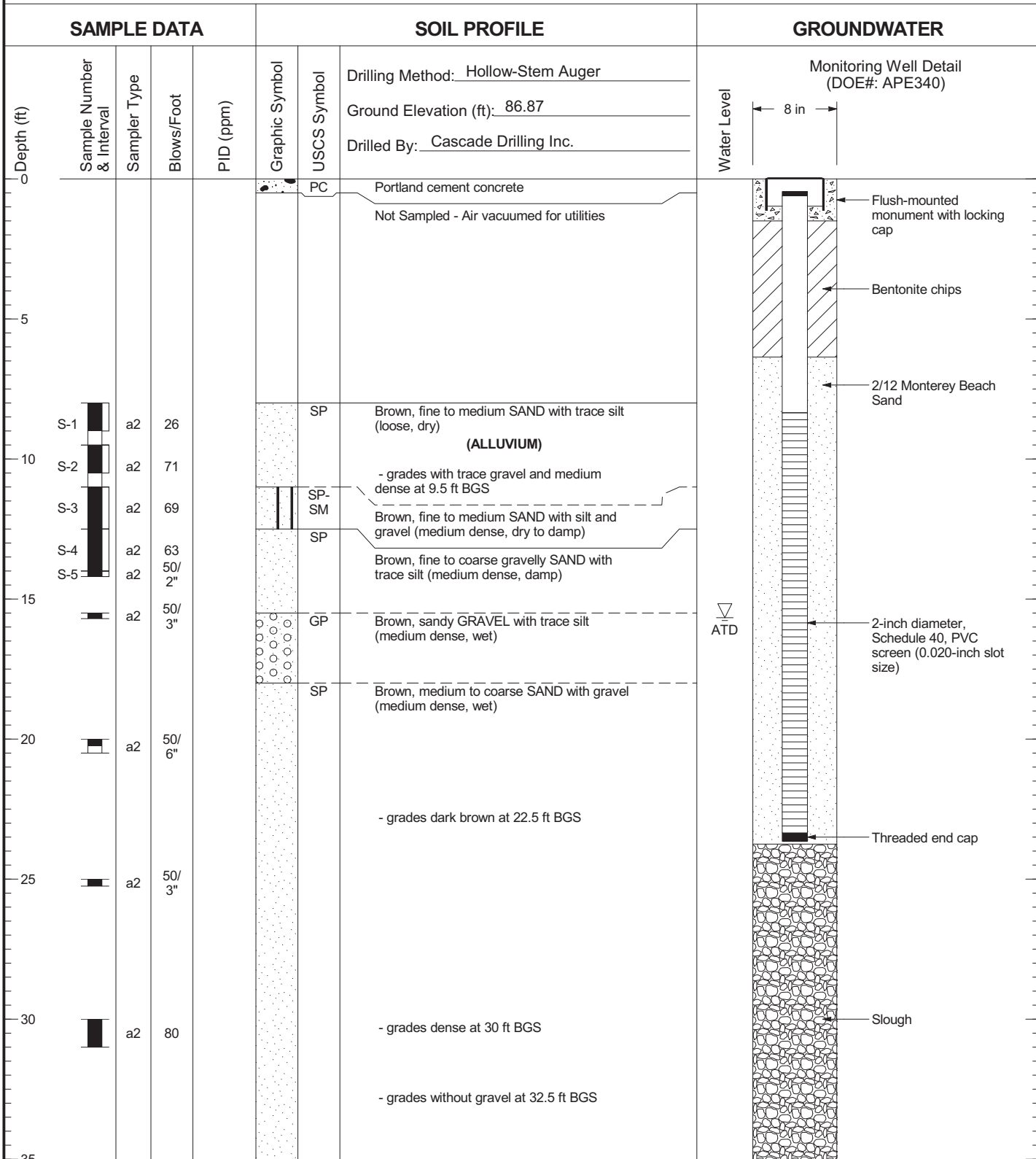
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW129

Figure  
**C-98**



# AGW130



- 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. DOE Unique Well Number: APE340

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW130

Figure  
C-99  
(1 of 2)

# AGW130

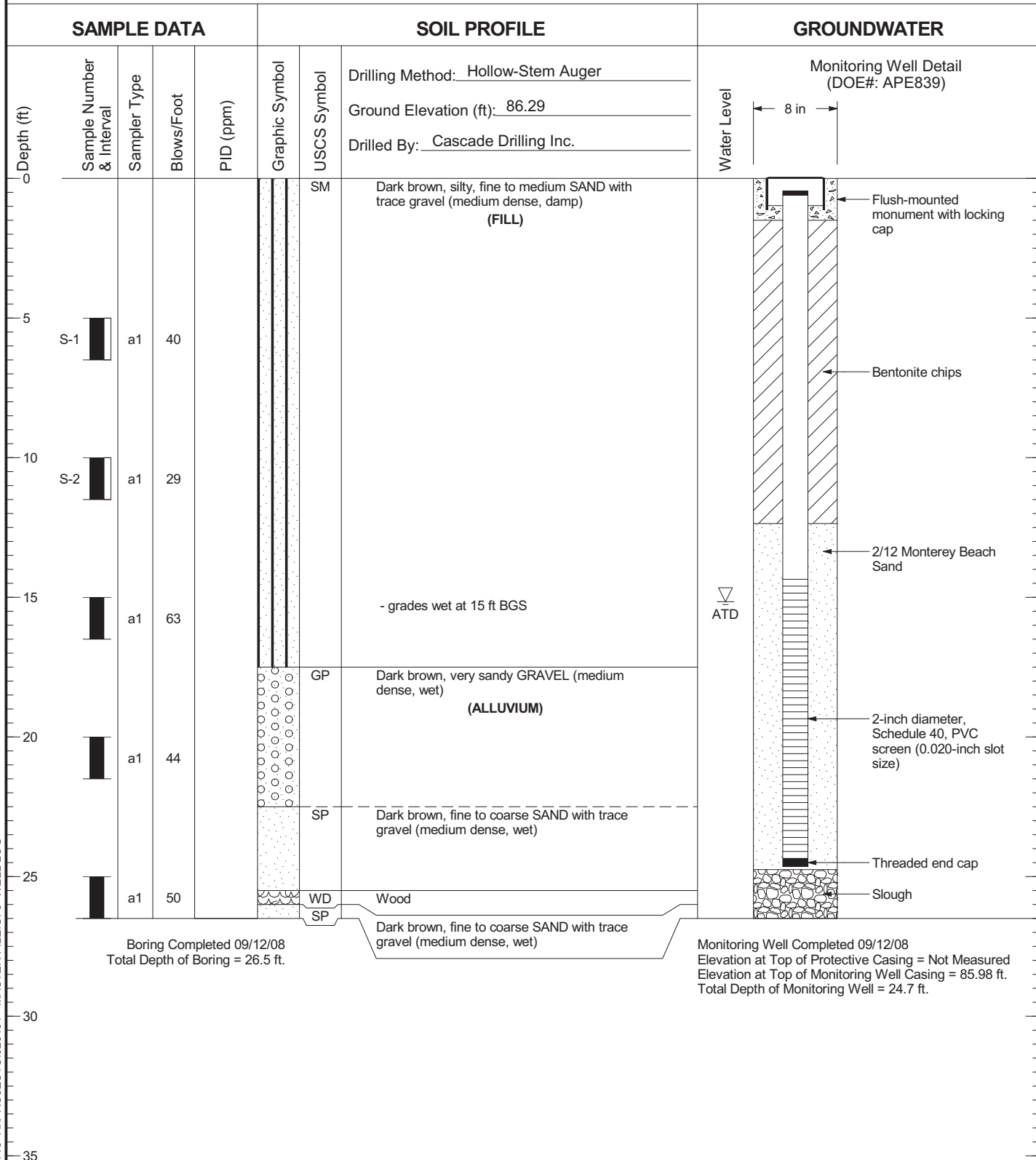
SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-Stem Auger</u>	Water Level
	35	a2	50/6"		[Stippled Pattern]	SP	Ground Elevation (ft): <u>86.87</u>	
	40	a2	56		[Stippled Pattern]		Brown, medium to coarse SAND with gravel (medium dense, wet)	Monitoring Well Detail (DOE#: APE340)
	45	a2	50/6"		[Stippled Pattern]		Groundwater sample collected at 35 ft BGS AGW130-35-20080911	
							Groundwater sample collected at 45 ft BGS AGW130-45-20080911	Slough
Boring Completed 09/11/08 Total Depth of Boring = 45.5 ft.								Monitoring Well Completed 09/12/08 Elevation at Top of Protective Casing = Not Measured Elevation at Top of Monitoring Well Casing = 86.64 ft. Total Depth of Monitoring Well = 23.7 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. DOE Unique Well Number: APE340

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW131



- 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. DOE Unique Well Number: APE839

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

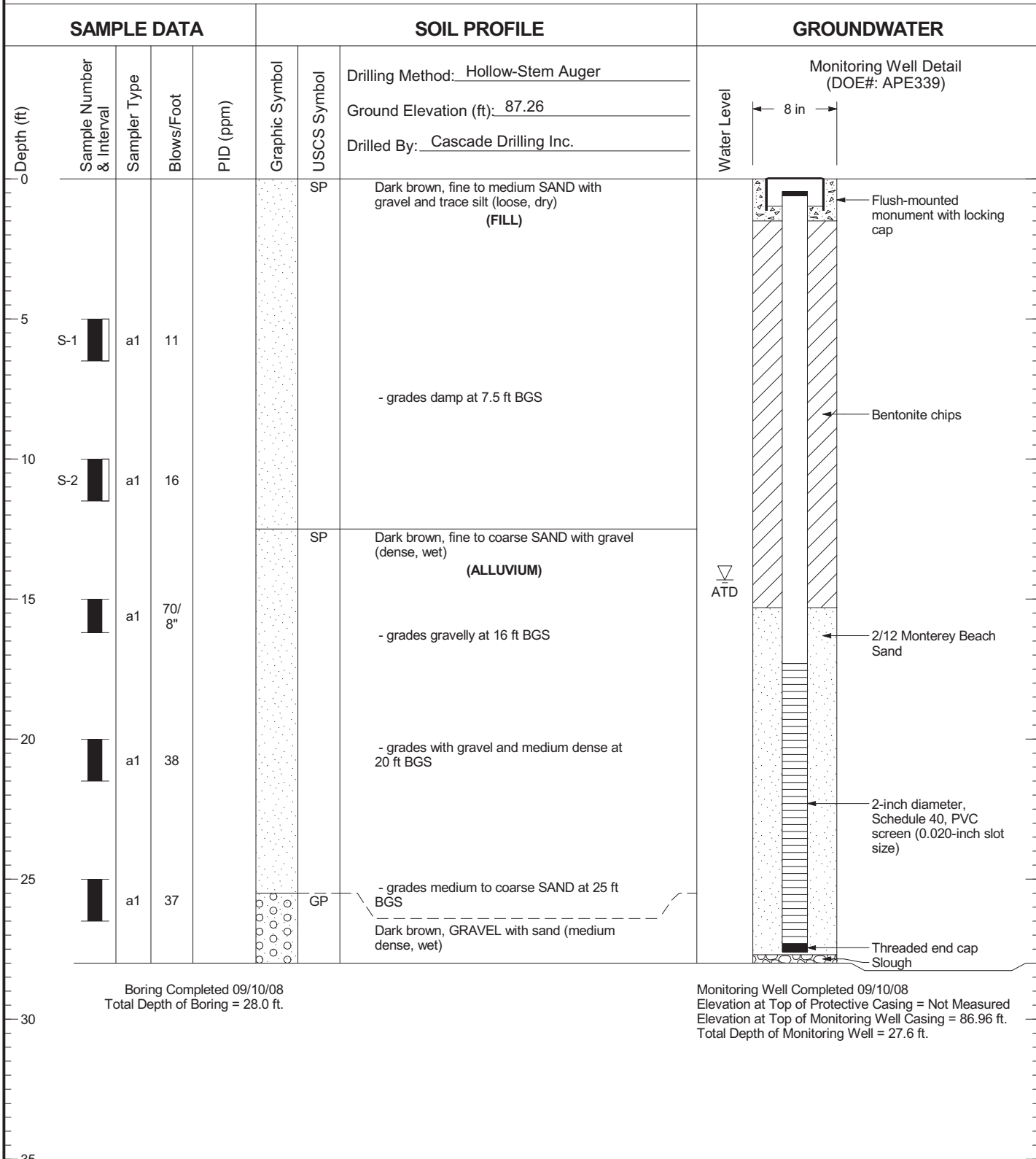


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW131

Figure  
C-100

# AGW132



Boring Completed 09/10/08  
Total Depth of Boring = 28.0 ft.

Monitoring Well Completed 09/10/08  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.96 ft.  
Total Depth of Monitoring Well = 27.6 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. DOE Unique Well Number: APE339

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

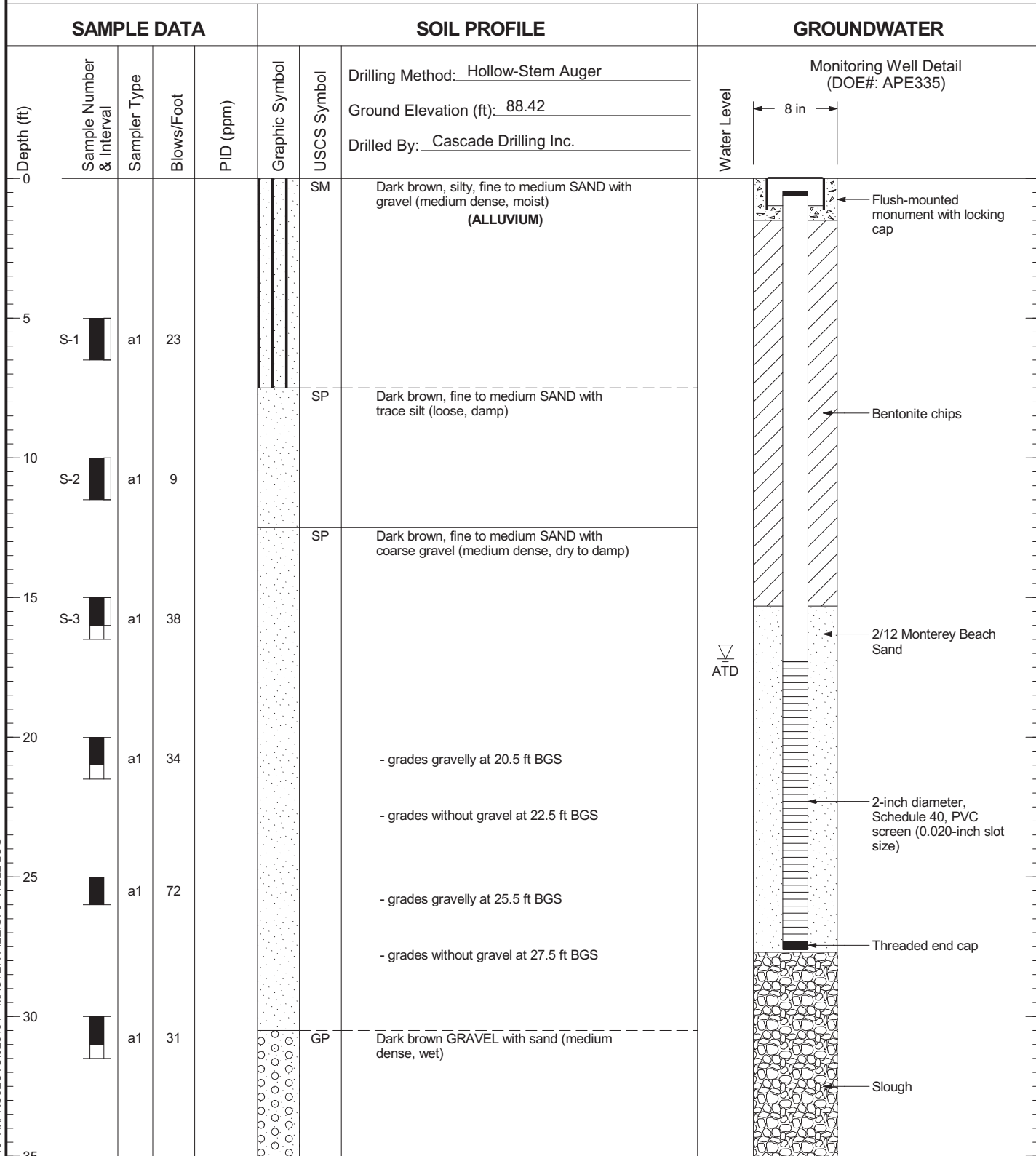


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Auburn, Washington

Log of Monitoring Well AGW132

Figure  
C-101

# AGW133



- 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. DOE Unique Well Number: APE335

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

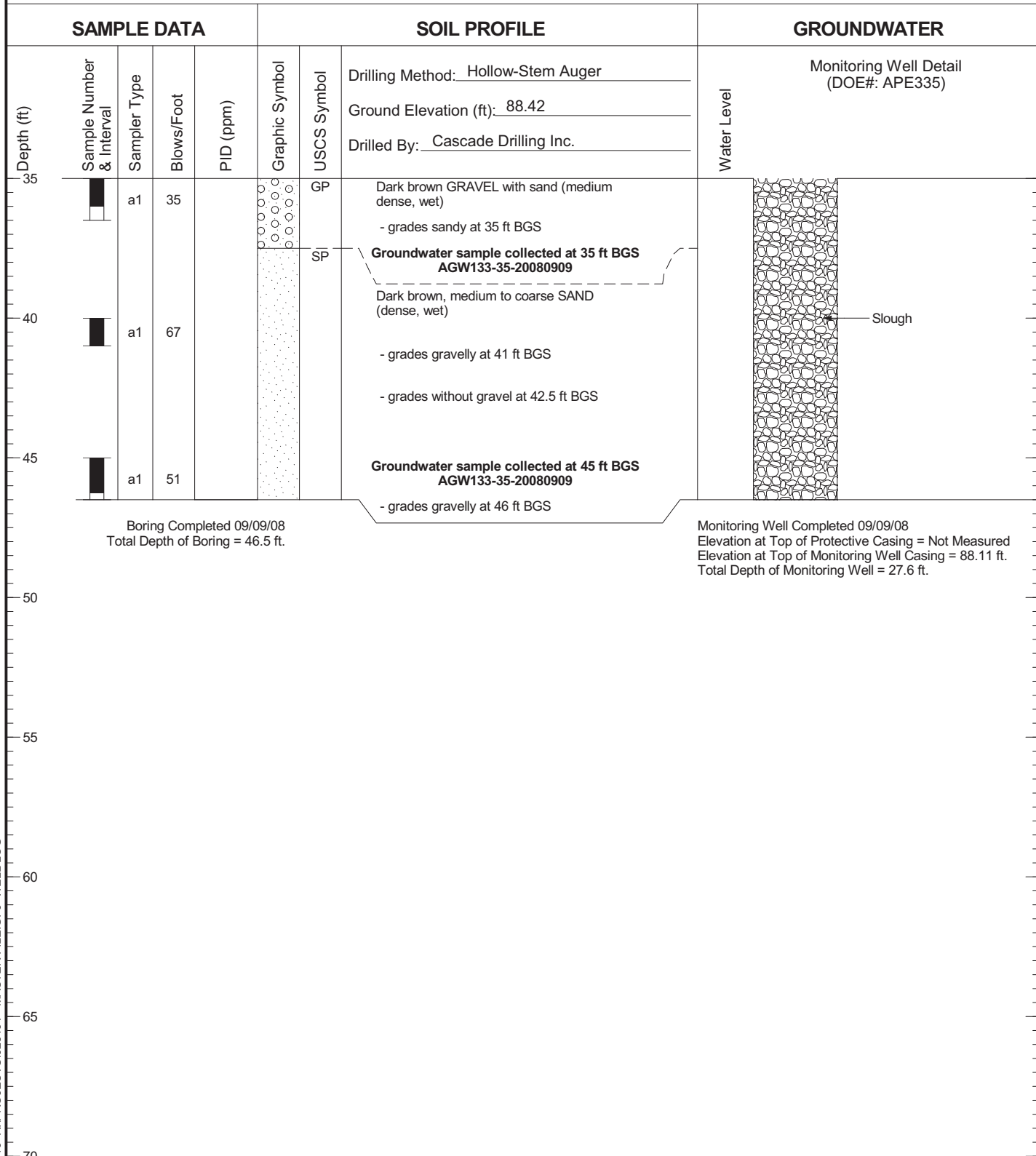


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW133

Figure  
C-102  
(1 of 2)

# AGW133



Boring Completed 09/09/08  
Total Depth of Boring = 46.5 ft.

Monitoring Well Completed 09/09/08  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 88.11 ft.  
Total Depth of Monitoring Well = 27.6 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. DOE Unique Well Number: APE335

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

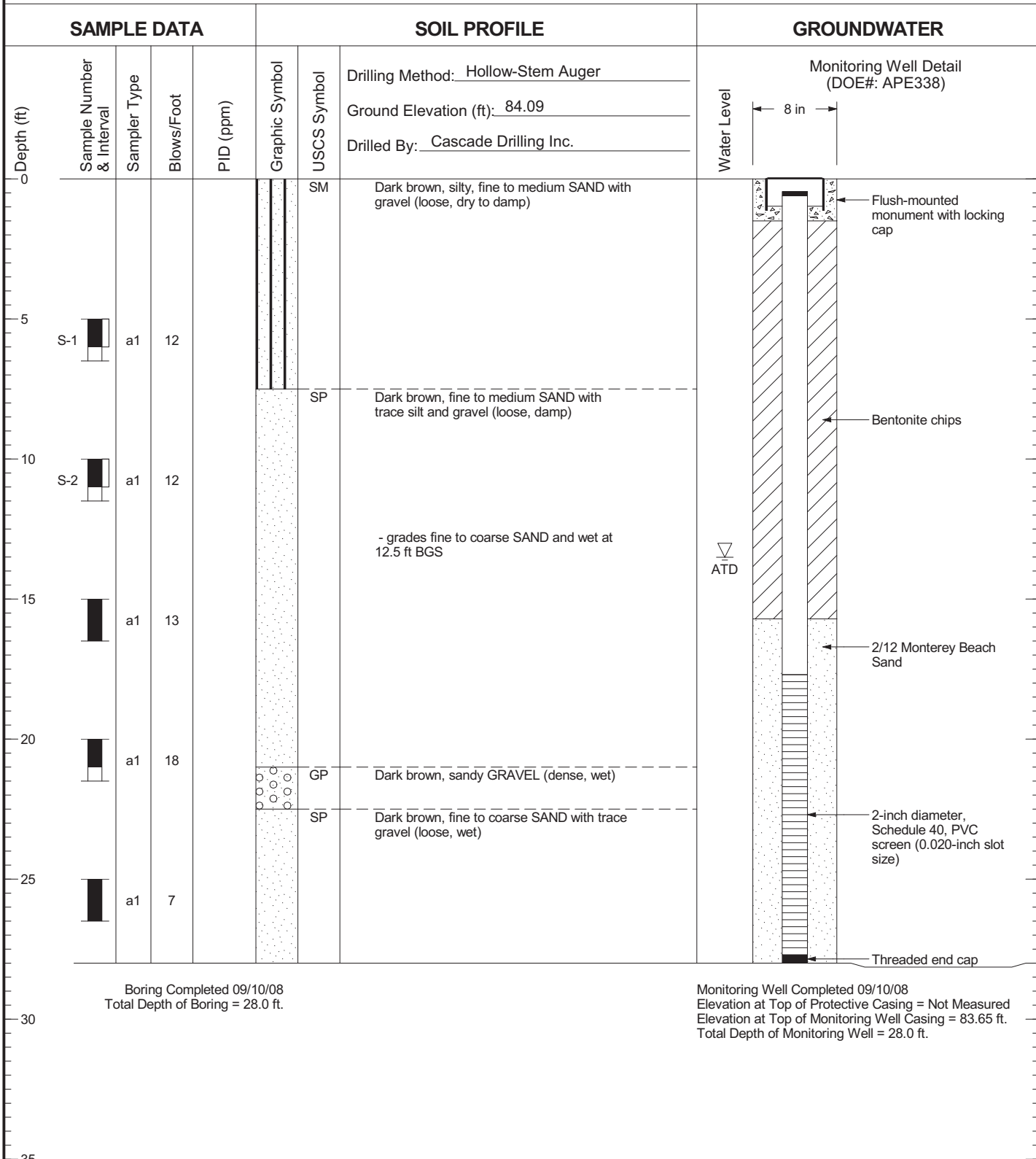


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW133

Figure  
C-102  
(2 of 2)

# AGW134



- 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. DOE Unique Well Number: APE338

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

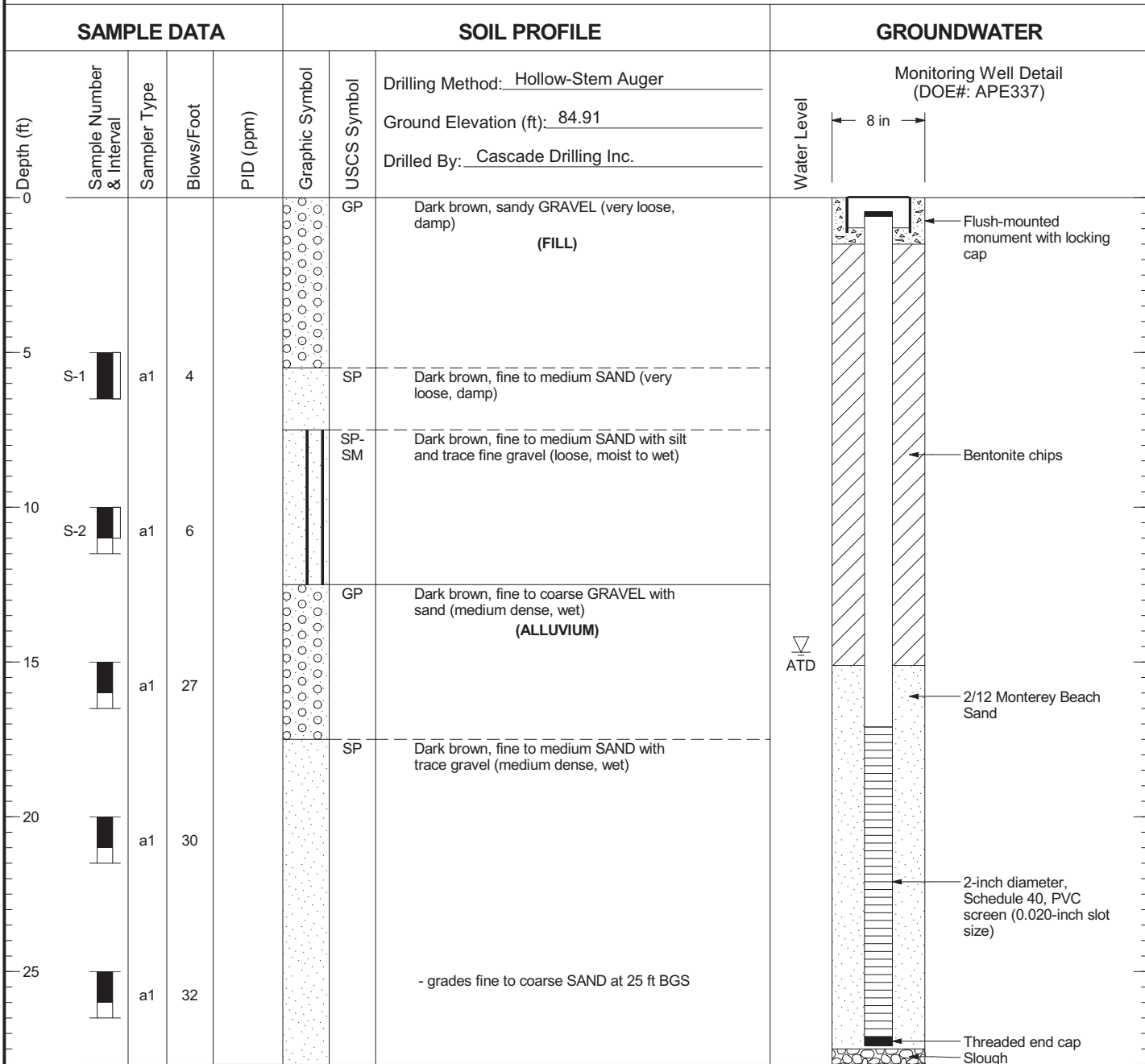


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW134

Figure  
C-103

# AGW135



Boring Completed 09/10/08  
Total Depth of Boring = 28.0 ft.

Monitoring Well Completed 09/11/08  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 84.54 ft.  
Total Depth of Monitoring Well = 27.4 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. DOE Unique Well Number: APE337

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



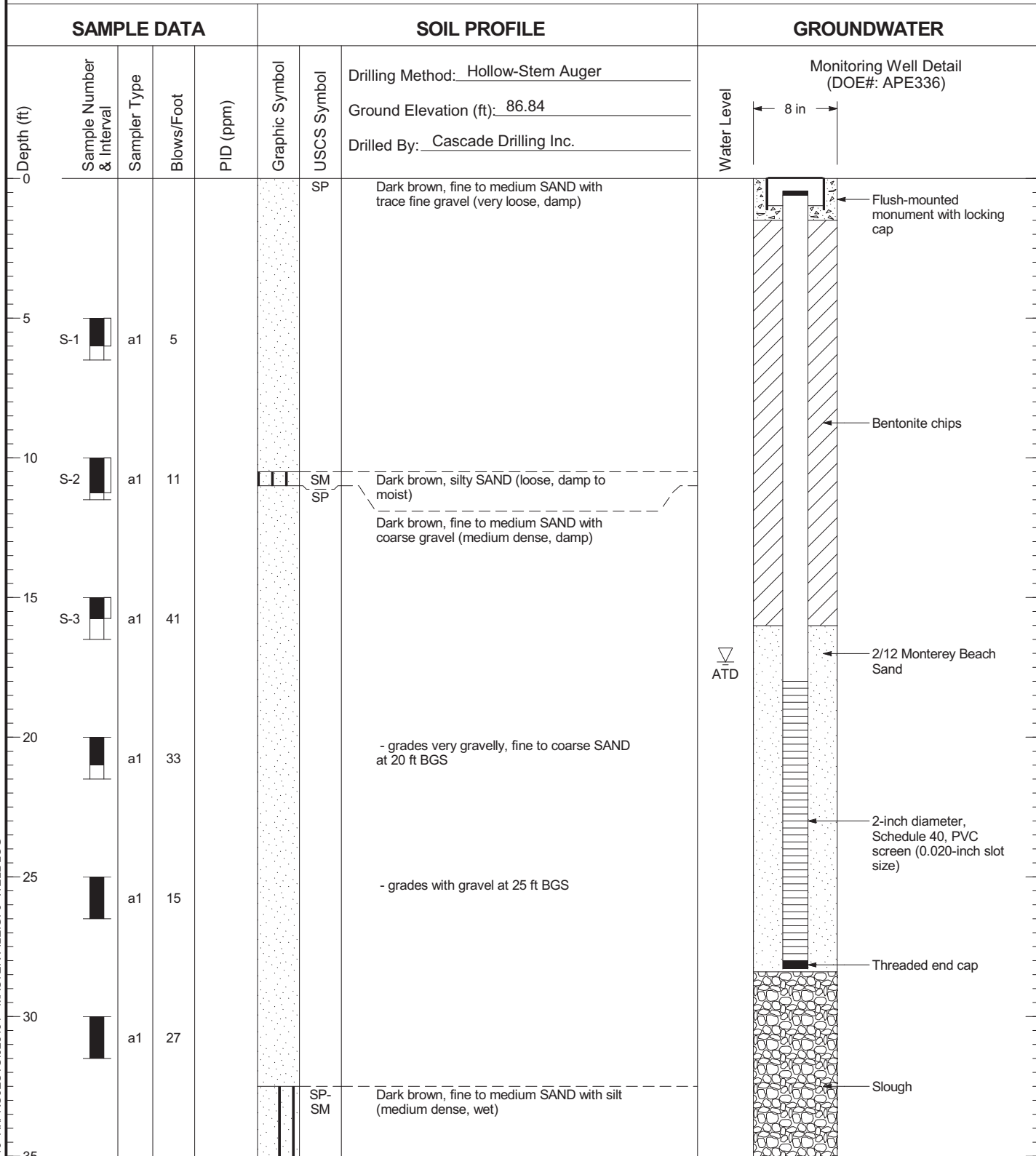
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW135

Figure  
C-104



# AGW136



- 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. DOE Unique Well Number: APE336

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

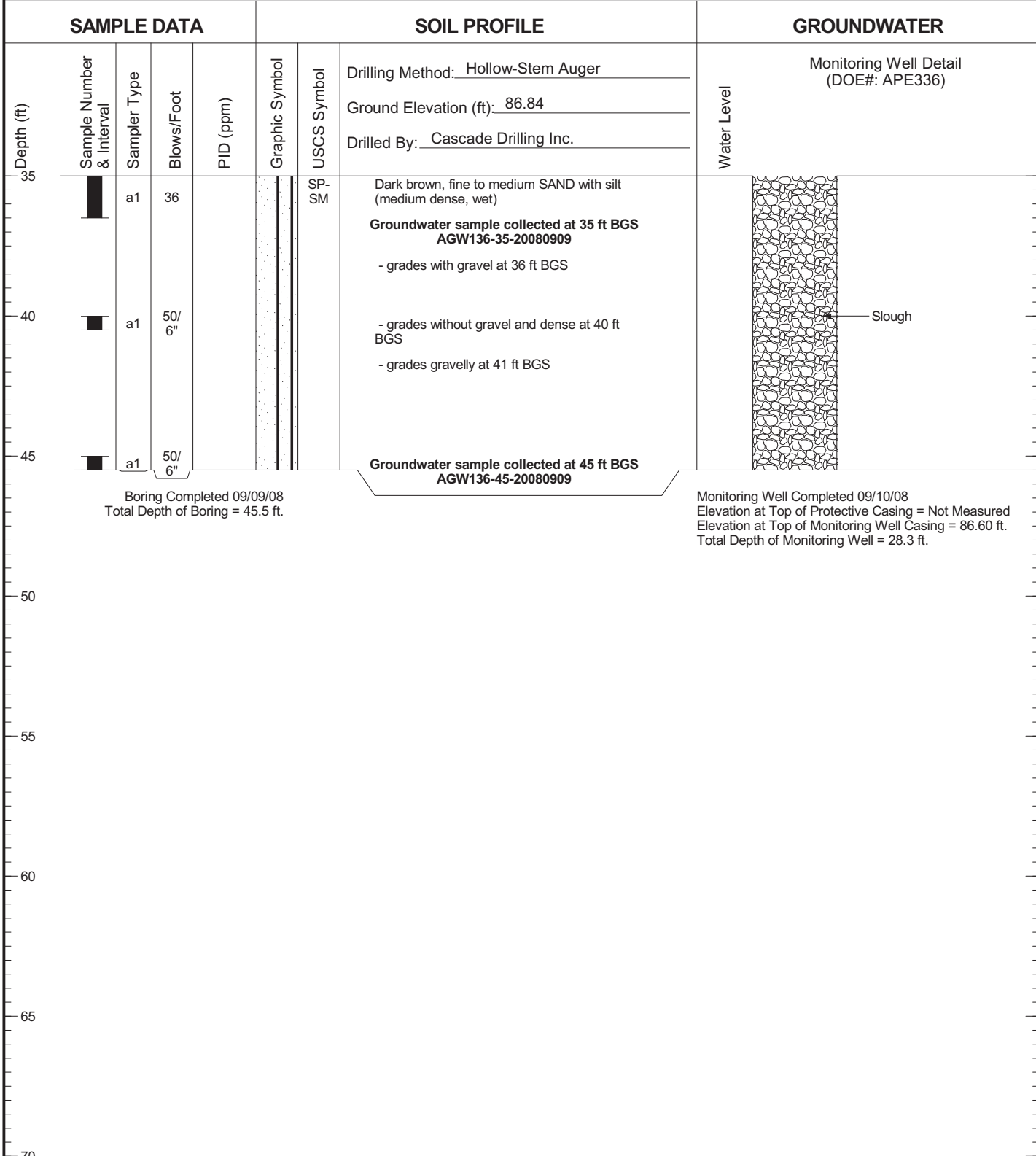


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW136

Figure  
C-105  
(1 of 2)

# AGW136



- 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. DOE Unique Well Number: APE336

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW136

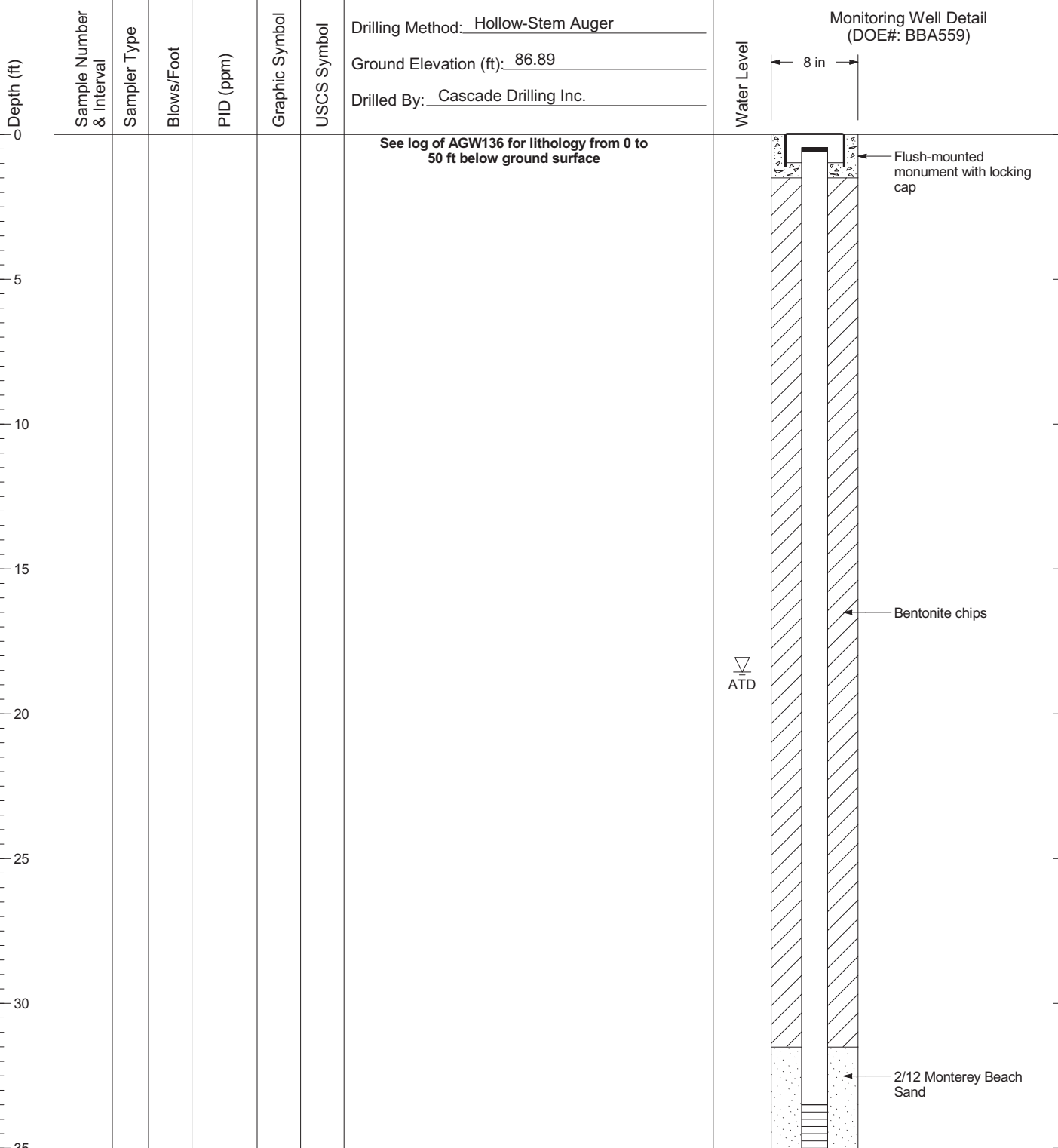
Figure  
C-105  
(2 of 2)

# AGW137

## 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. DOE Unique Well Number: BBA559

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW137

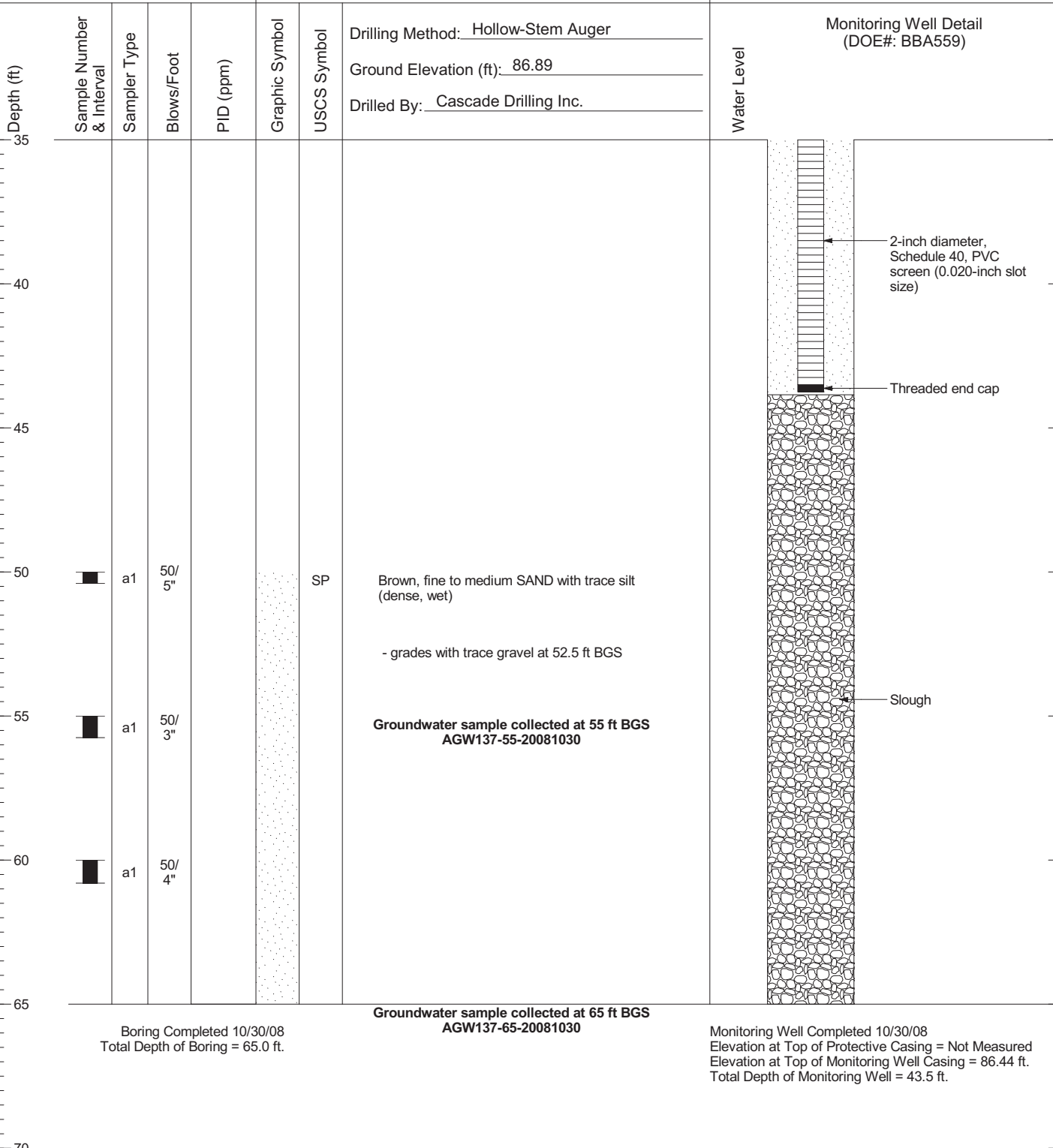
Figure  
C-106  
(1 of 2)

# AGW137

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 10/30/08  
Total Depth of Boring = 65.0 ft.

**Groundwater sample collected at 65 ft BGS  
AGW137-65-20081030**

Monitoring Well Completed 10/30/08  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.44 ft.  
Total Depth of Monitoring Well = 43.5 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.
  4. DOE Unique Well Number: BBA559

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

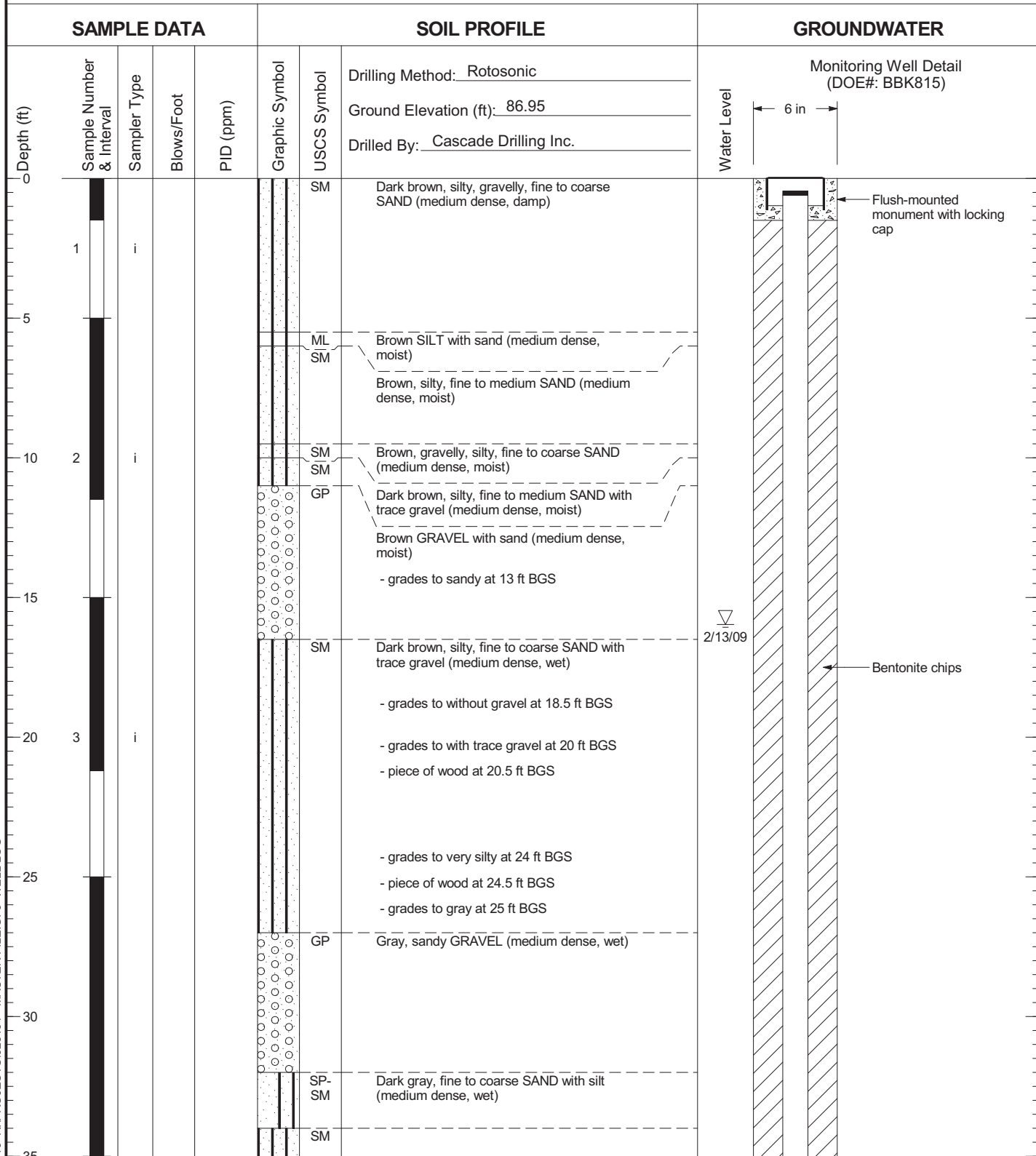


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW137

Figure  
C-106  
(2 of 2)

# AGW138



- 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. DOE Unique Well Number: BBK815

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW138

Figure  
C-107  
(1 of 3)

# AGW138

SAMPLE DATA		SOIL PROFILE				GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>
							Ground Elevation (ft): <u>86.95</u>
							Drilled By: <u>Cascade Drilling Inc.</u>
							Water Level
35	4	i			SM		Monitoring Well Detail (DOE#: BBK815)
					GP	Dark gray, very silty, fine to medium SAND (medium dense, wet)	
					GP-GM	Brown, sandy GRAVEL with trace silt (medium dense, wet)	
40					GP-GM	Brown, sandy GRAVEL with silt (medium dense, wet)	
					SM	Brown, gravelly, silty, fine to coarse SAND (medium dense, wet)	
45					SM	Brown, gravelly, silty, fine to coarse SAND (medium dense, wet)	
						- grades to very gravelly at 48 ft bgs	
	5	i			GM	Brown, silty, sandy GRAVEL (medium dense, wet)	
50					GP	Brown, sandy GRAVEL with trace silt (medium dense, wet)	
					SM	Dark gray, silty, fine to medium SAND (medium dense, wet)	
55					SM	Dark gray, silty, fine to medium SAND (medium dense, wet)	
					GP	Brown GRAVEL with trace sand (medium dense, wet)	
60					GP	Brown GRAVEL with trace sand (medium dense, wet)	
					SP-SM	Dark gray, gravelly, fine to coarse SAND with silt (medium dense, wet)	
65	6	i			GP	Brown, sandy GRAVEL with trace silt (medium dense, wet)	
					GP	Brown, sandy GRAVEL with trace silt (medium dense, wet)	
70							

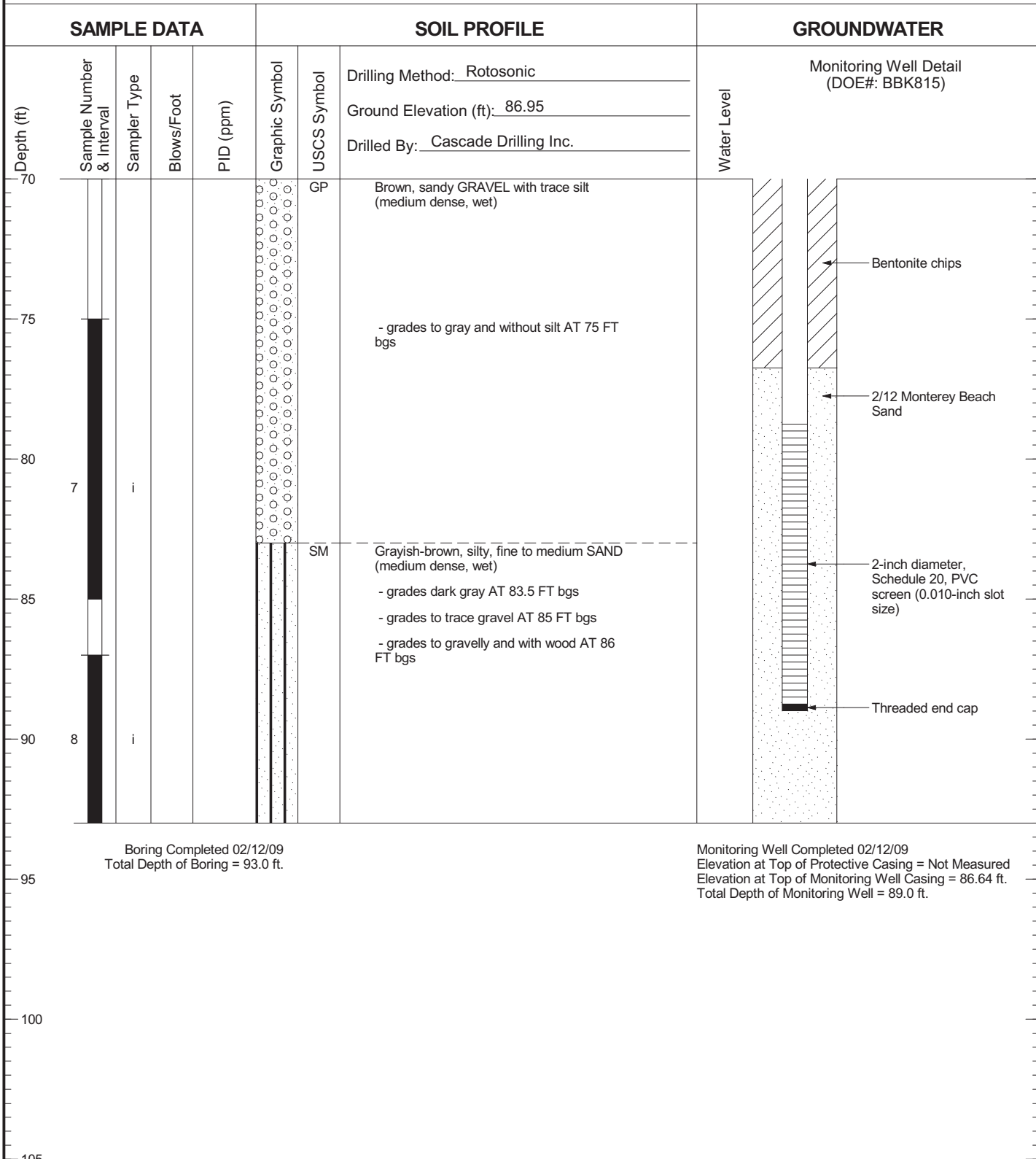
← Bentonite chips

- 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. DOE Unique Well Number: BBK815

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW138



025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: BBK815

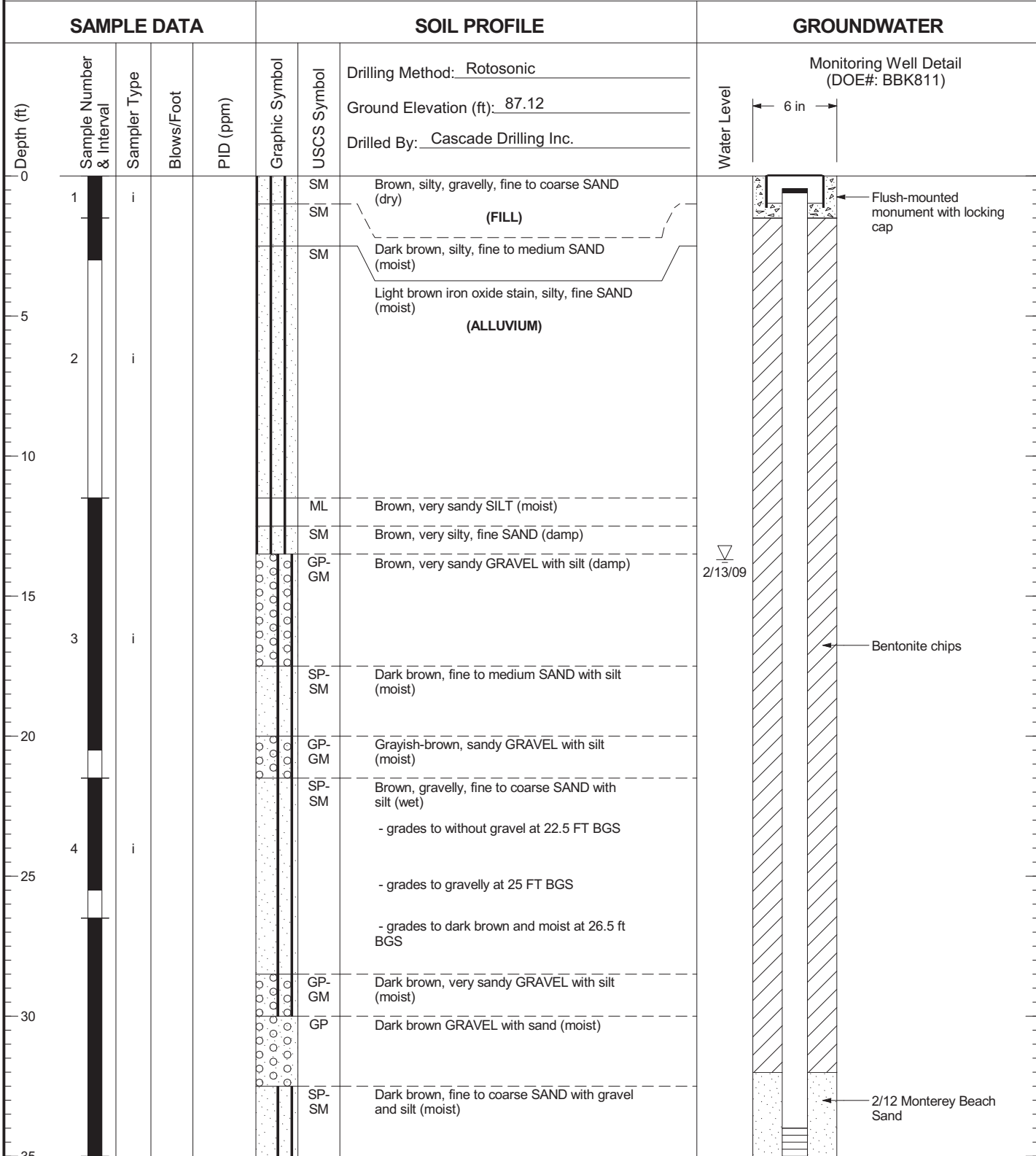


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW138

Figure  
C-107  
(3 of 3)

# AGW139



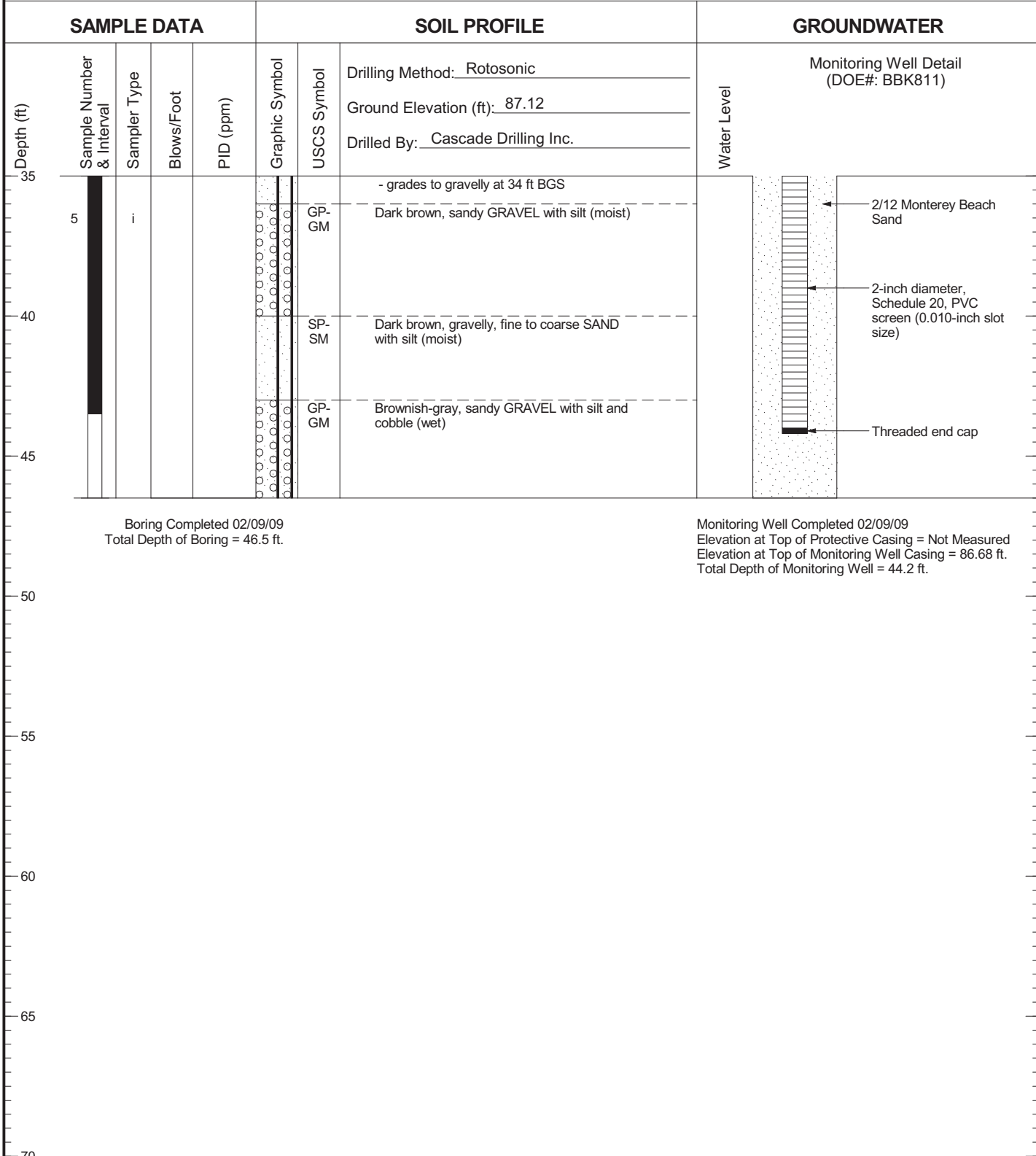
- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BBK811

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG





# AGW139



Boring Completed 02/09/09  
Total Depth of Boring = 46.5 ft.

Monitoring Well Completed 02/09/09  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.68 ft.  
Total Depth of Monitoring Well = 44.2 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. DOE Unique Well Number: BBK811

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

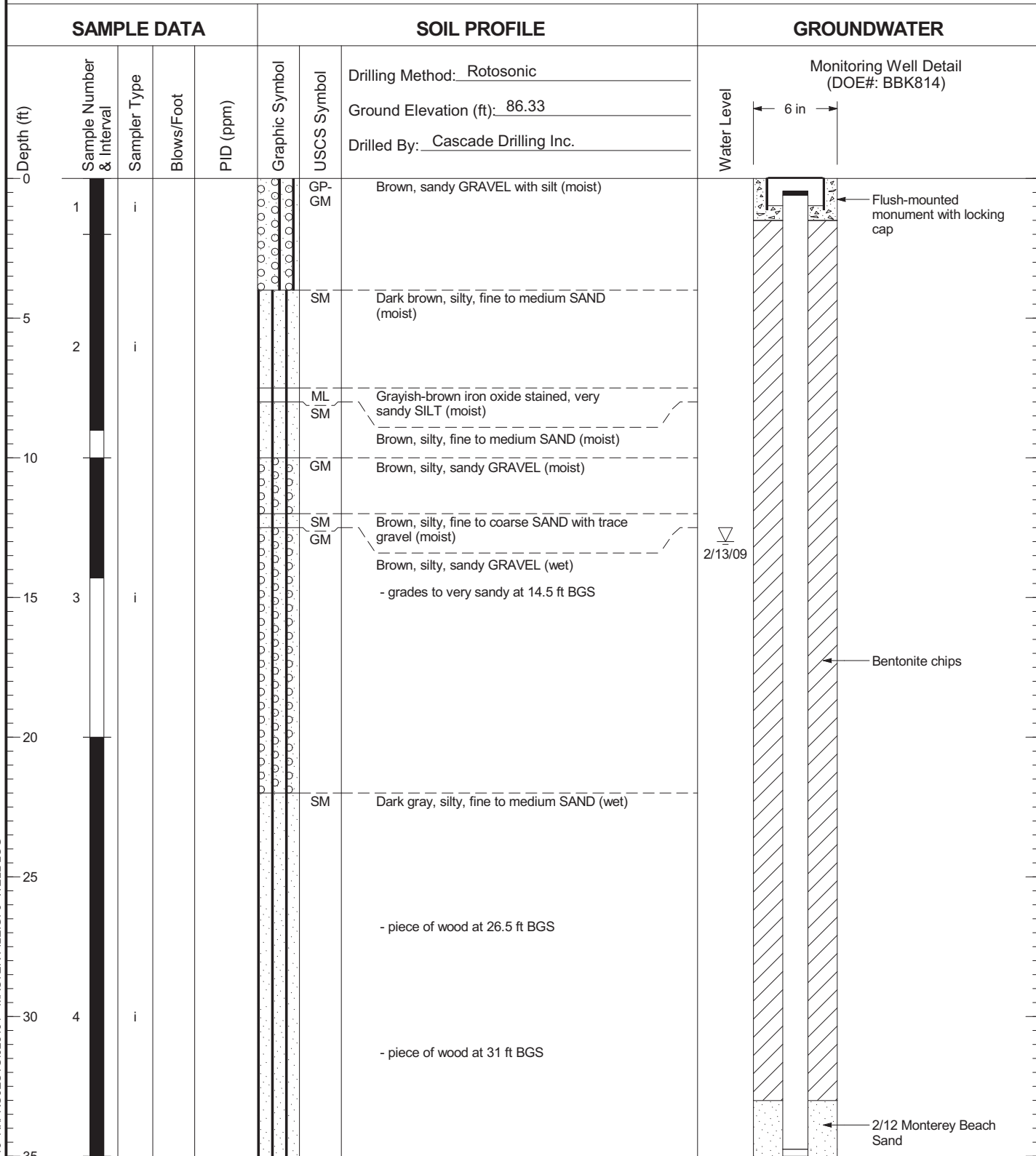


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW139

Figure  
C-108  
(2 of 2)

# AGW140



- 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. DOE Unique Well Number: BBK814

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

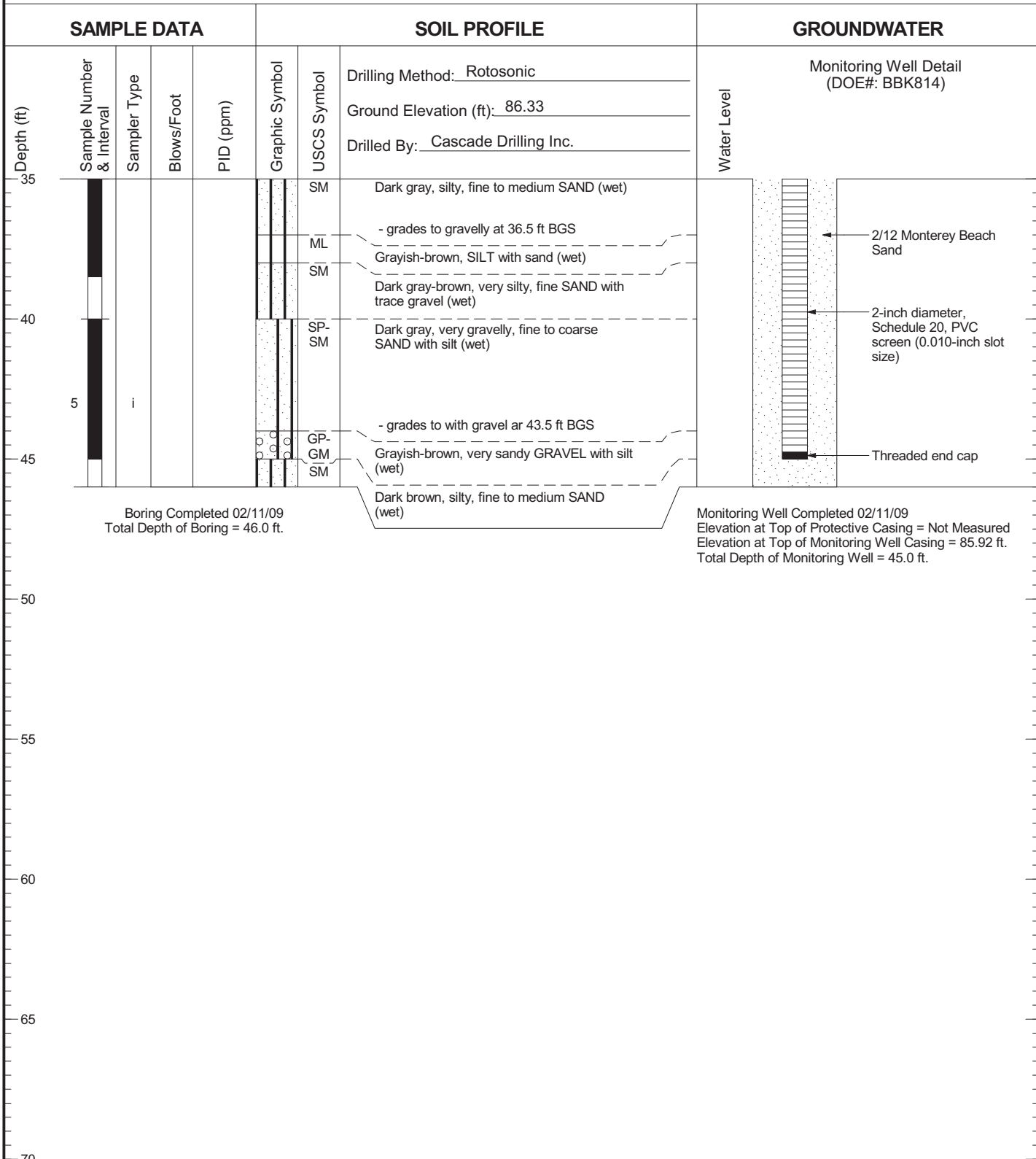


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW140

Figure  
C-109  
(1 of 2)

# AGW140

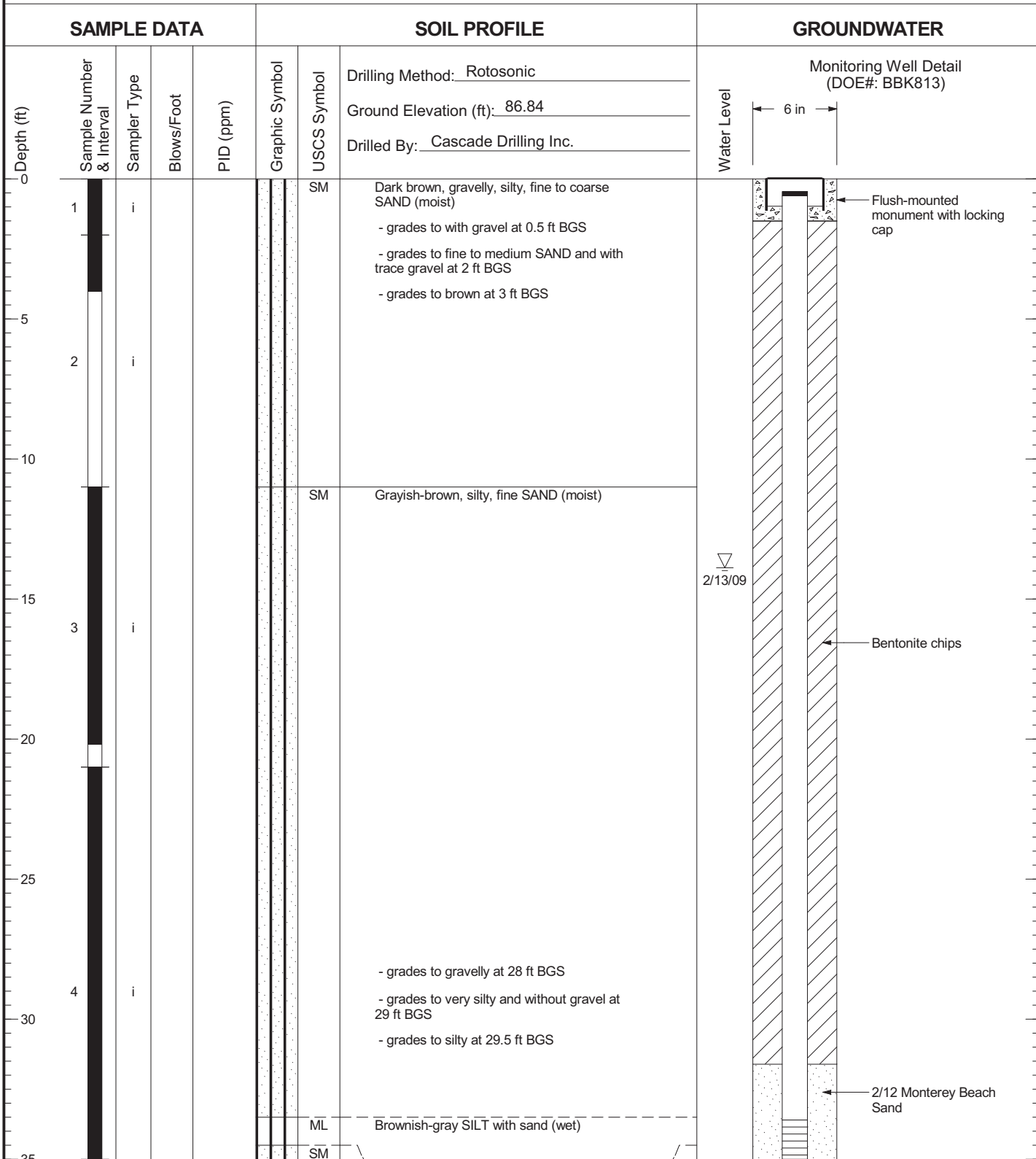


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BBK814

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW141



- 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. DOE Unique Well Number: **BBK813**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

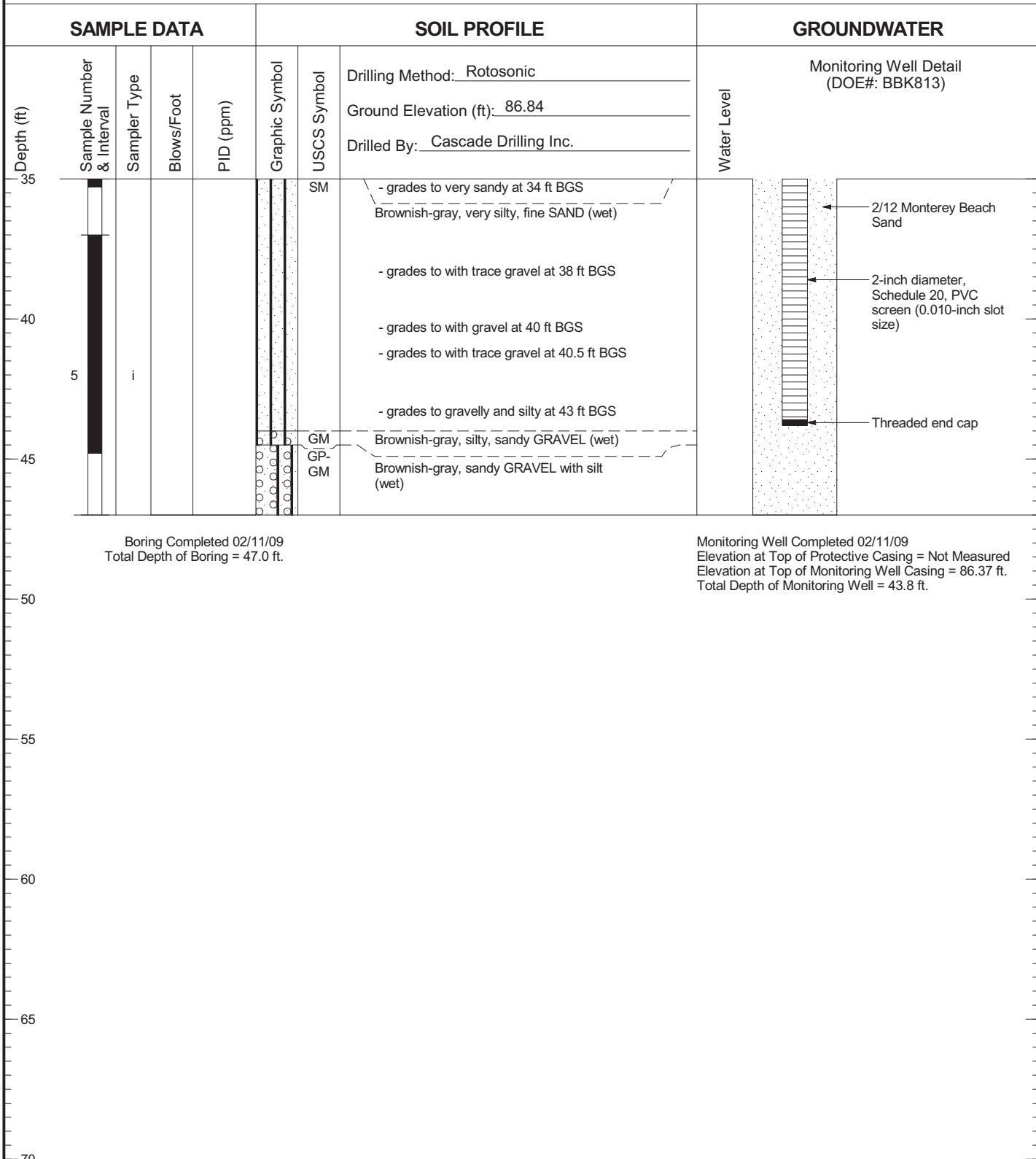


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW141

Figure  
C-110  
(1 of 2)

# AGW141



Boring Completed 02/11/09  
Total Depth of Boring = 47.0 ft.

Monitoring Well Completed 02/11/09  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.37 ft.  
Total Depth of Monitoring Well = 43.8 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. DOE Unique Well Number: BBK813

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

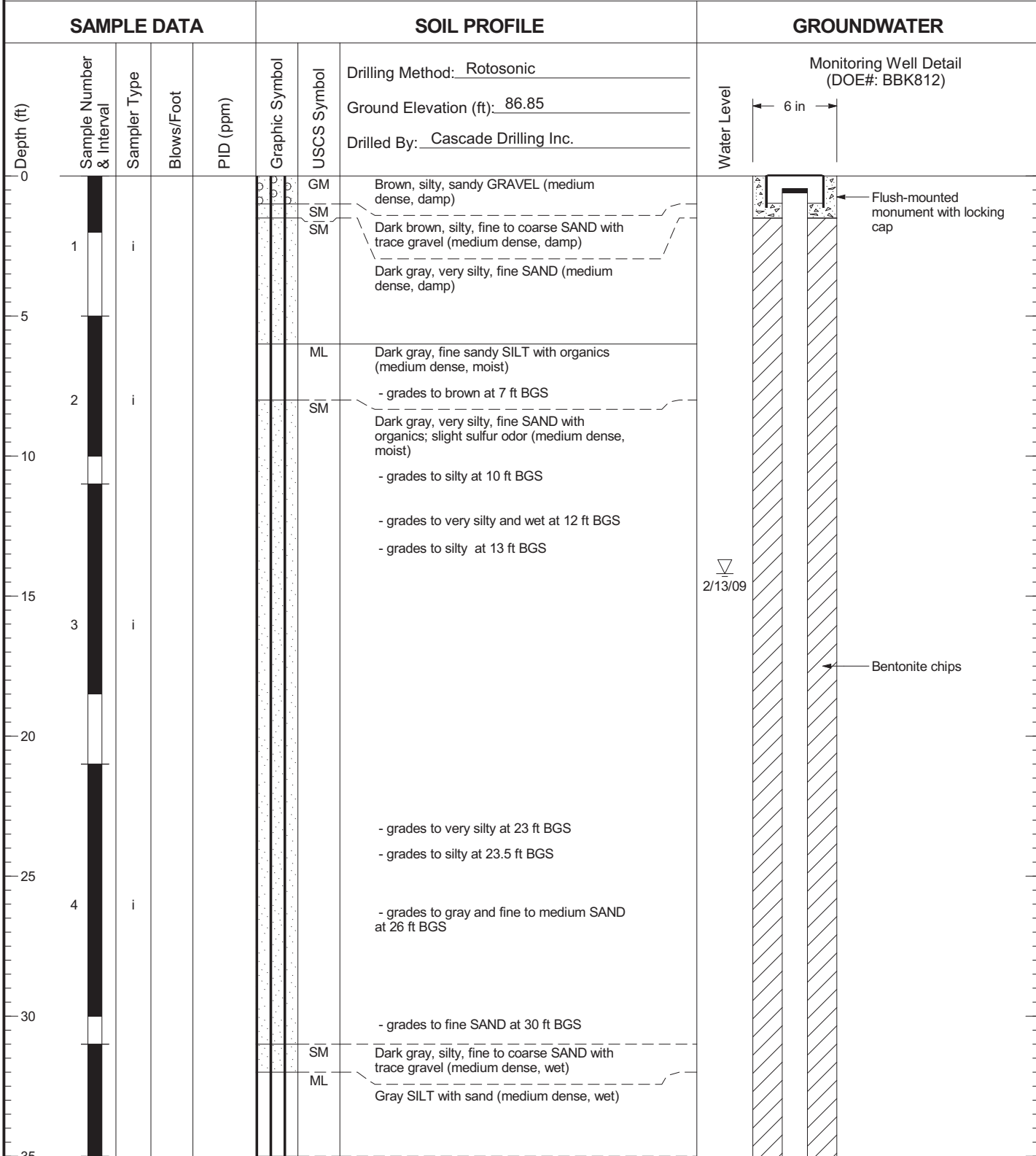


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW141

Figure  
C-110  
(2 of 2)

# AGW142



- 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. DOE Unique Well Number: BBK812

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

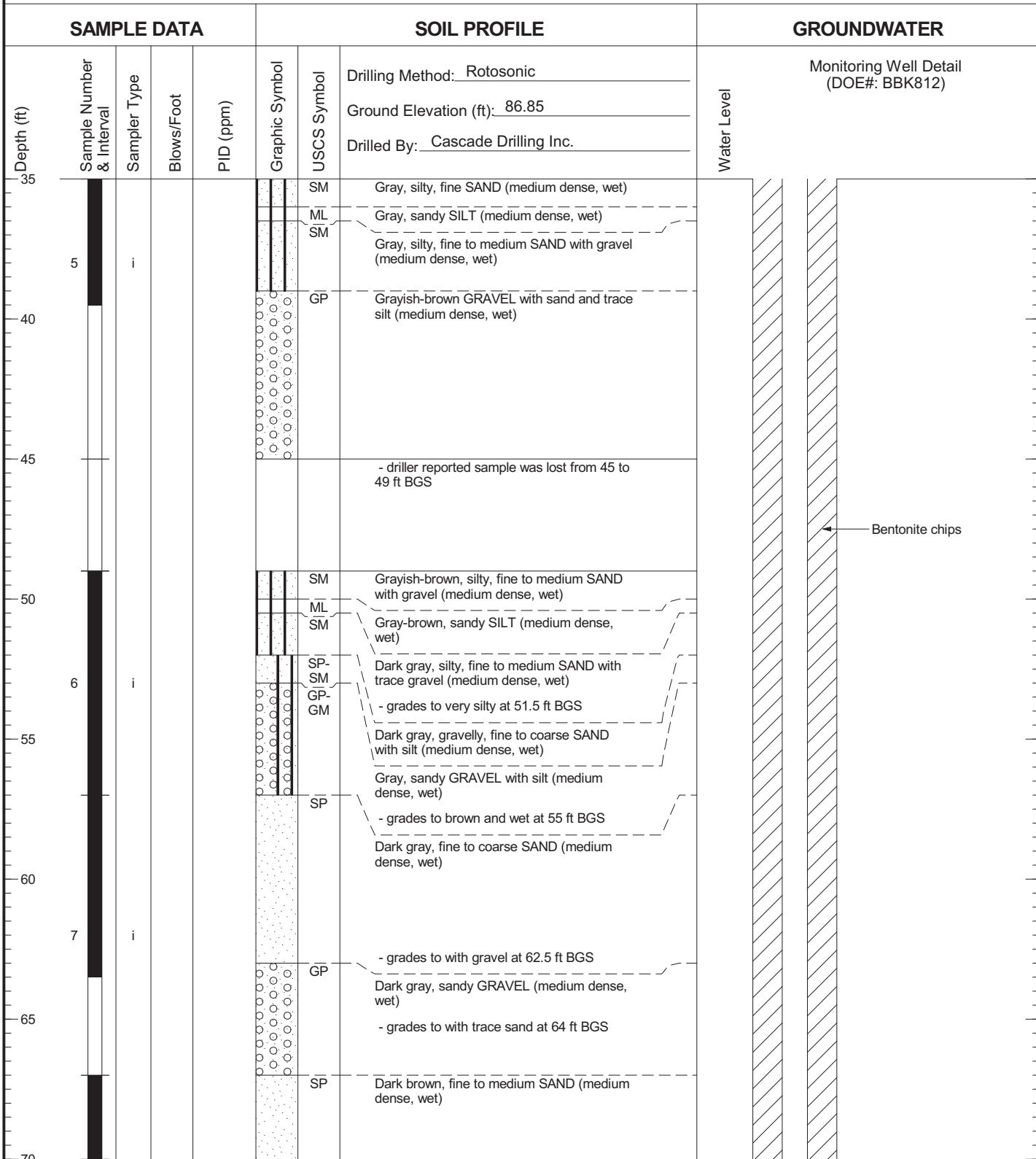


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW142

Figure  
C-111  
(1 of 3)

# AGW142

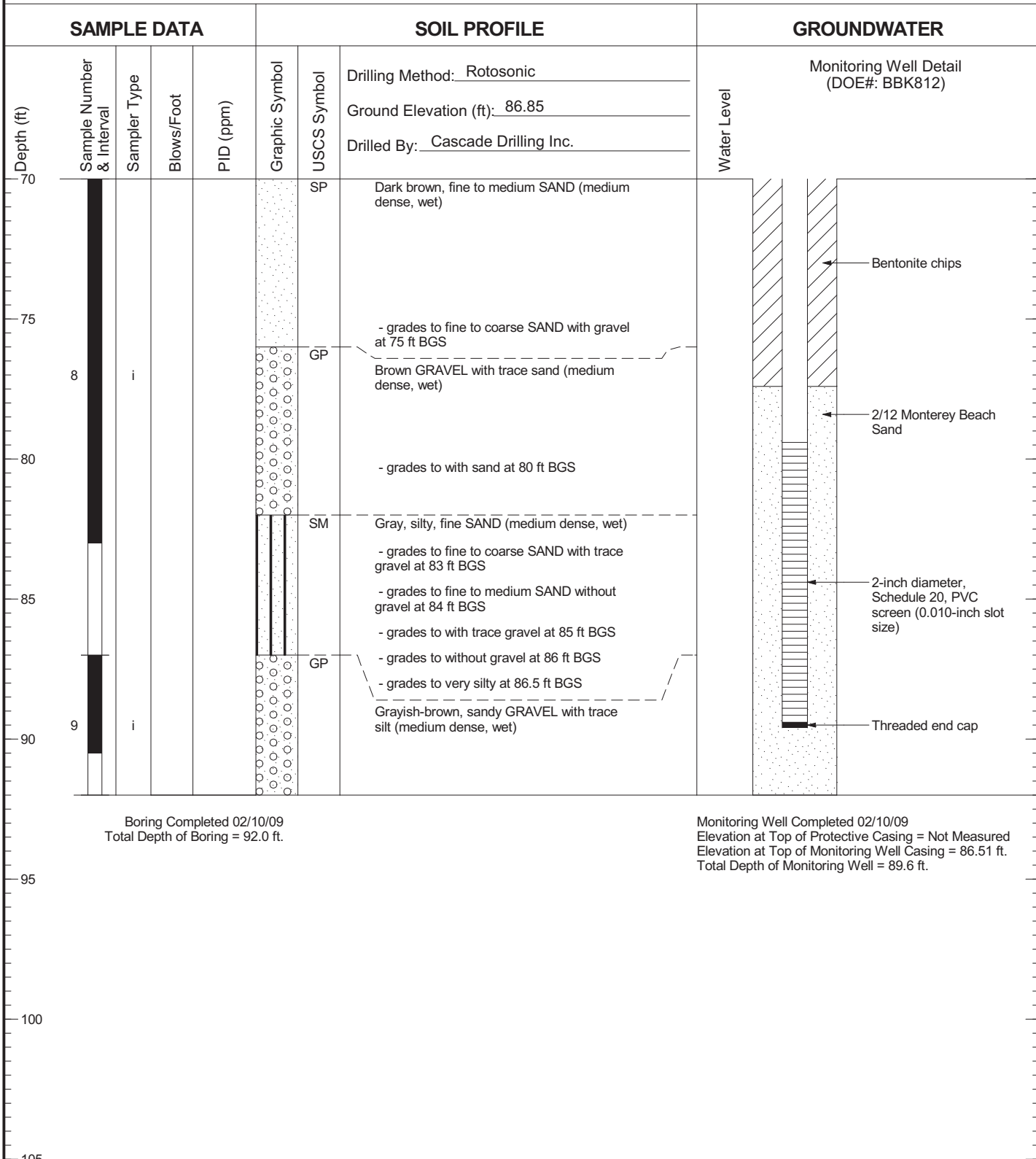


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BBK812

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW142



Boring Completed 02/10/09  
Total Depth of Boring = 92.0 ft.

Monitoring Well Completed 02/10/09  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.51 ft.  
Total Depth of Monitoring Well = 89.6 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. DOE Unique Well Number: BBK812

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



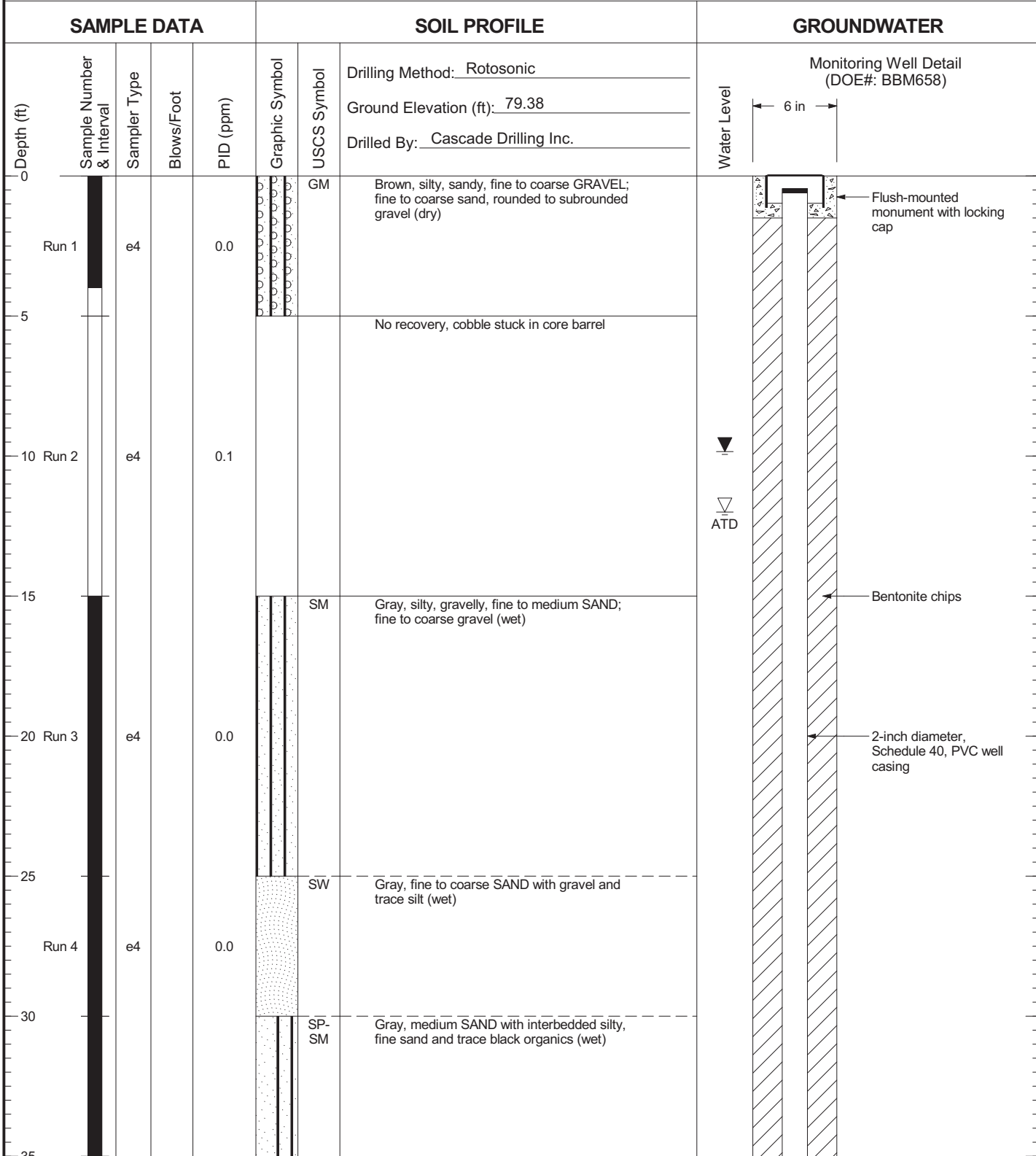
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW142

Figure  
C-111  
(3 of 3)



# AGW143



- 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. DOE Unique Well Number: **BBM658**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW143

Figure  
C-112  
(1 of 3)

# AGW143

SAMPLE DATA				SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Monitoring Well Detail (DOE#: <b>BBM658</b> )	
							Ground Elevation (ft): <u>79.38</u>		
							Drilled By: <u>Cascade Drilling Inc.</u>		
	35	Run 5	e4		0.0	SP-SM	Gray, medium SAND with interbedded silty, fine sand and trace black organics (wet)		Water Level
	40	Run 6	e4		0.0		- 6" SILT with clay lens; low toughness  - 8" clayey SILT lens; medium toughness		
	45	Run 7	e4		0.0		No Recovery		
	50					SP	Gray, fine to medium SAND with trace silt; stratified with 8"-12" layers of clayey SILT with trace peat (wet)		
	55	Run 8	e4		0.0	GP	Gray, sandy, fine to coarse GRAVEL with trace silt; fine to coarse sand (wet)  5 feet of heave		← 2-inch diameter, Schedule 40, PVC well casing  ← Bentonite chips
	60					SP	Gray, fine to medium SAND with trace silt (wet)		
	65	Run 9	e4		0.0	SM	Gray, silty, fine SAND with trace organics (wet)		
70					SP	Gray, fine to medium SAND with trace silt (wet)			

- 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. DOE Unique Well Number: **BBM658**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW143

Figure  
C-112  
(2 of 3)

# AGW143

SAMPLE DATA				SOIL PROFILE			GROUNDWATER					
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BBM658)			
										Ground Elevation (ft): <u>79.38</u>		
										Drilled By: <u>Cascade Drilling Inc.</u>		
	70					SP						
						SM						
	75	Run 10	e4		0.0	SW						
						ML						
	80					SP						
	85	Run 11	e4		0.0	SM						
						ML						
	90	Run 12	e4		0.0	SM						
	95	Run 13	e4		0.0	CH						

Boring Completed 10/06/09  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/06/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.98 ft.  
Total Depth of Monitoring Well = 88.9 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. DOE Unique Well Number: **BBM658**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

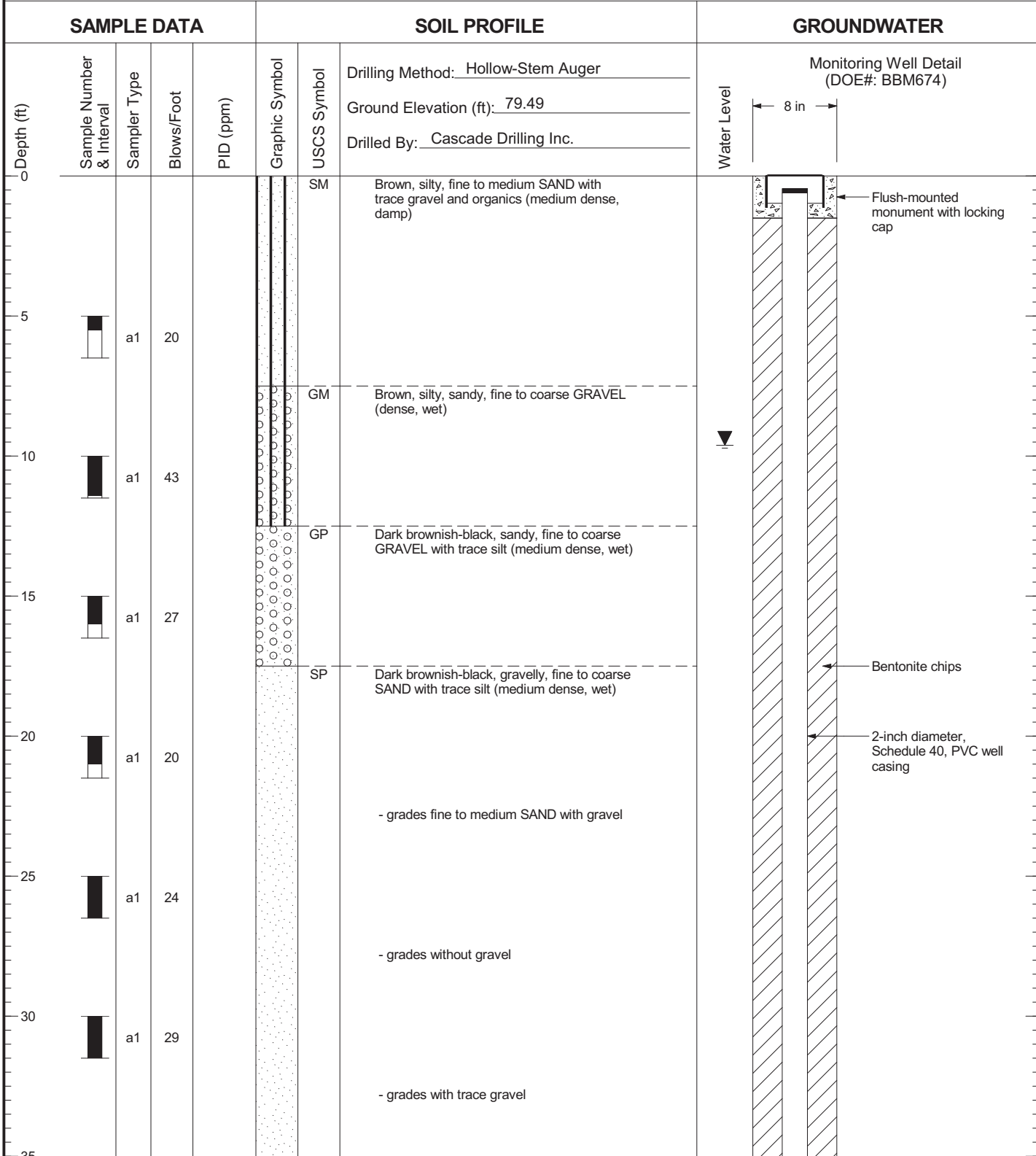


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW143

Figure  
C-112  
(3 of 3)

# AGW144

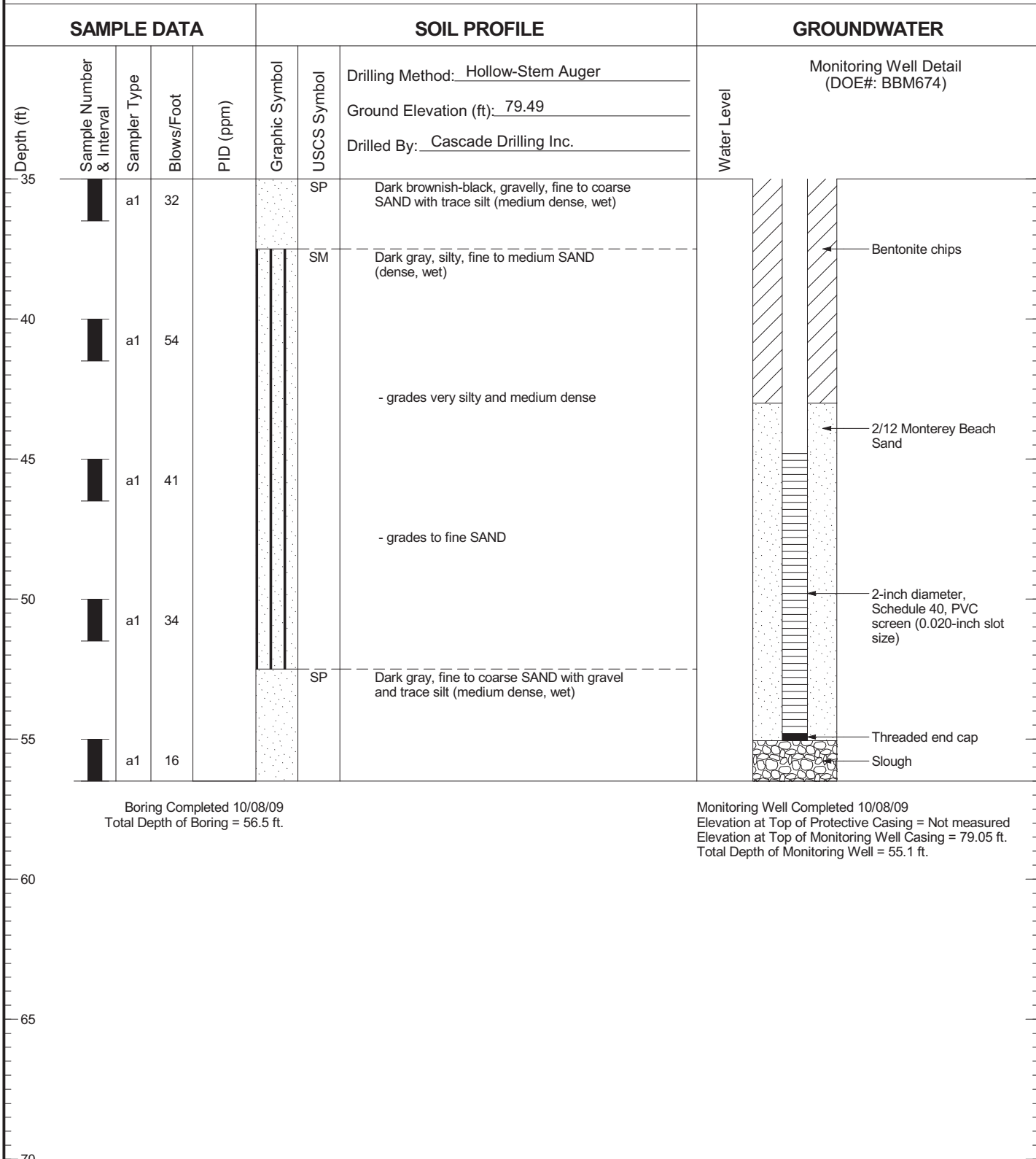


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: **BBM674**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW144



025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: **BBM674**



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Investigation  
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Log of Monitoring Well AGW144

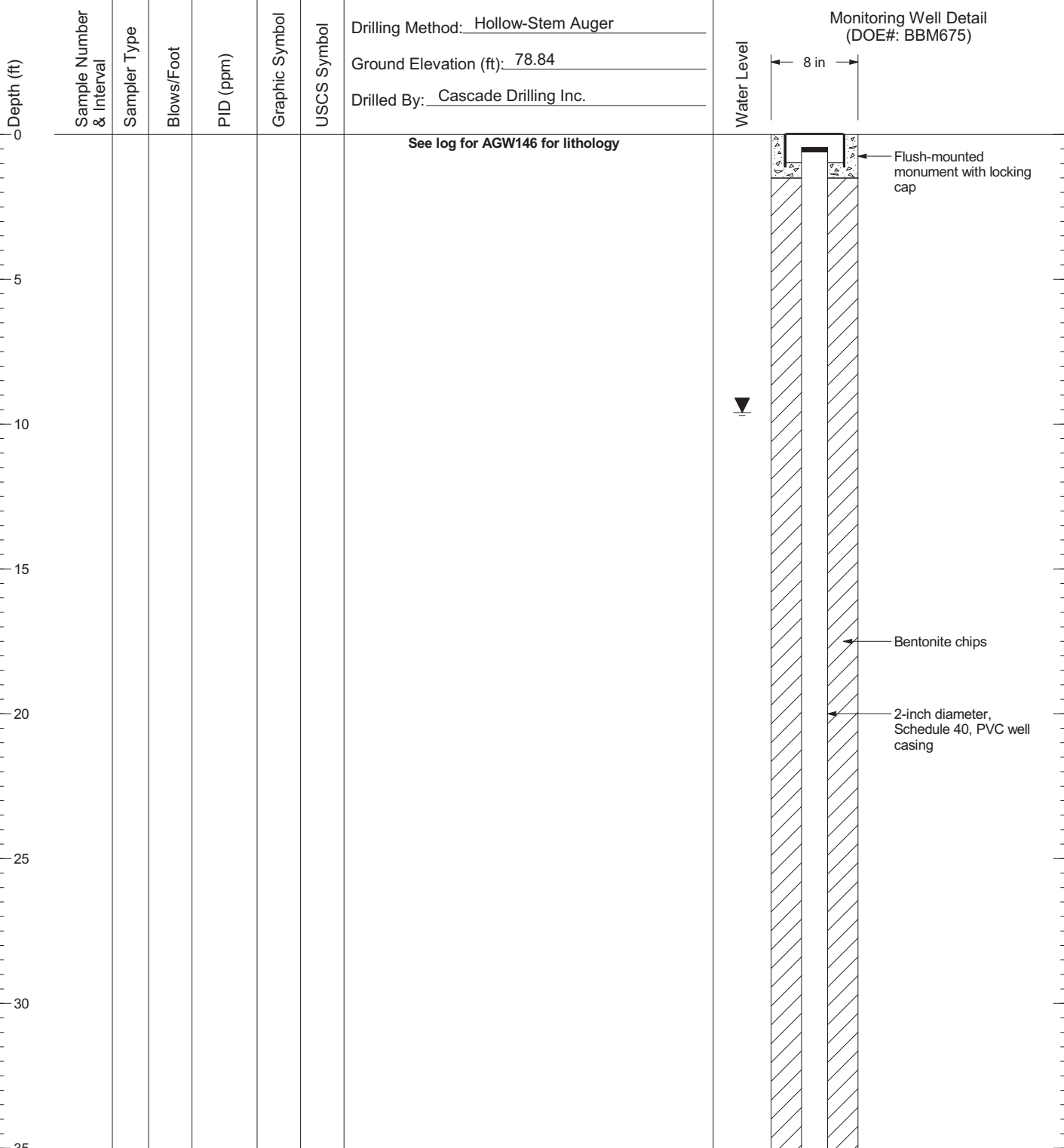
Figure  
C-113  
(2 of 2)

# AGW145

## 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. DOE Unique Well Number: **BBM675**

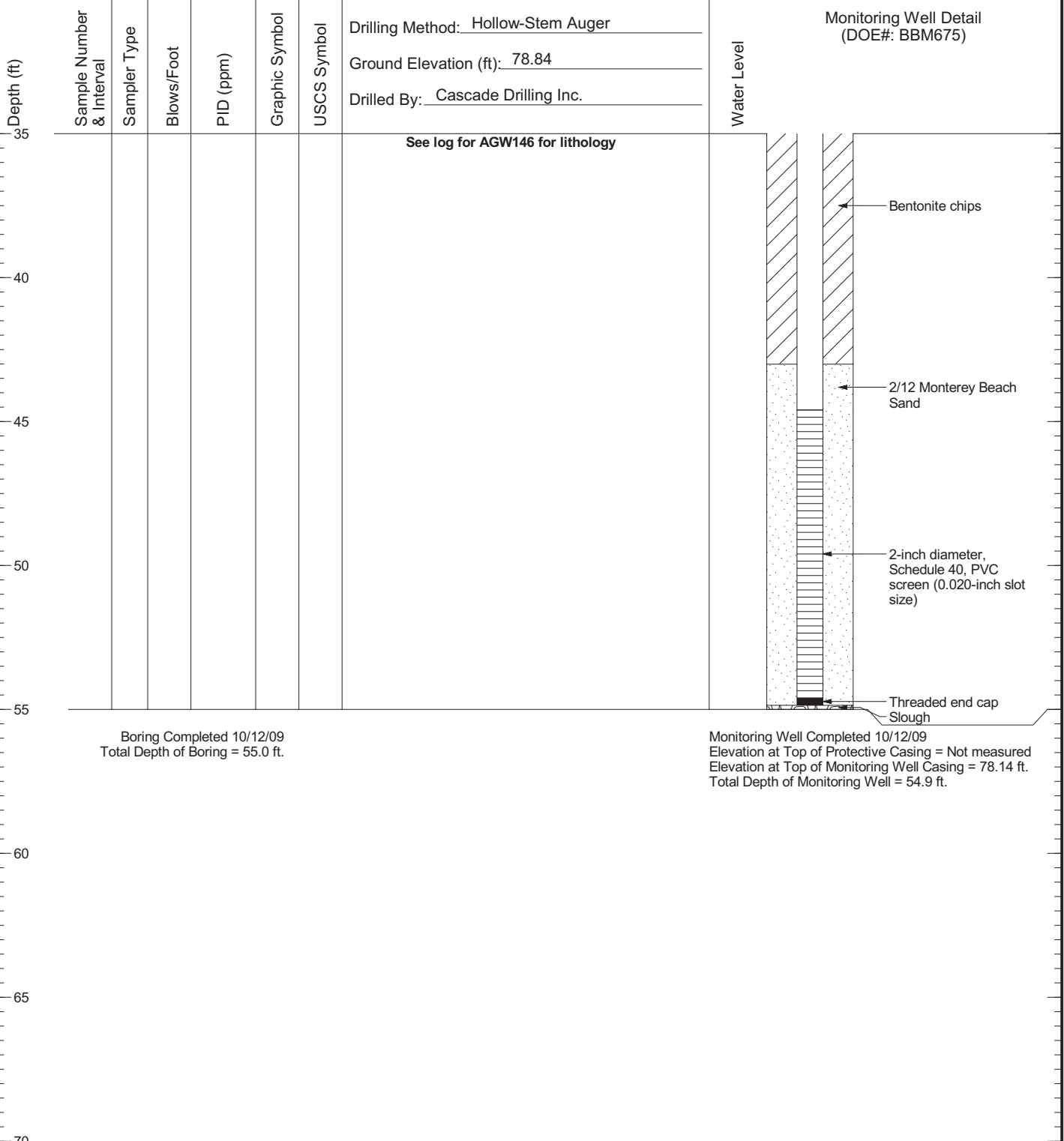
025164\_ 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

# AGW145

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 10/12/09  
Total Depth of Boring = 55.0 ft.

Monitoring Well Completed 10/12/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.14 ft.  
Total Depth of Monitoring Well = 54.9 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. DOE Unique Well Number: **BBM675**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

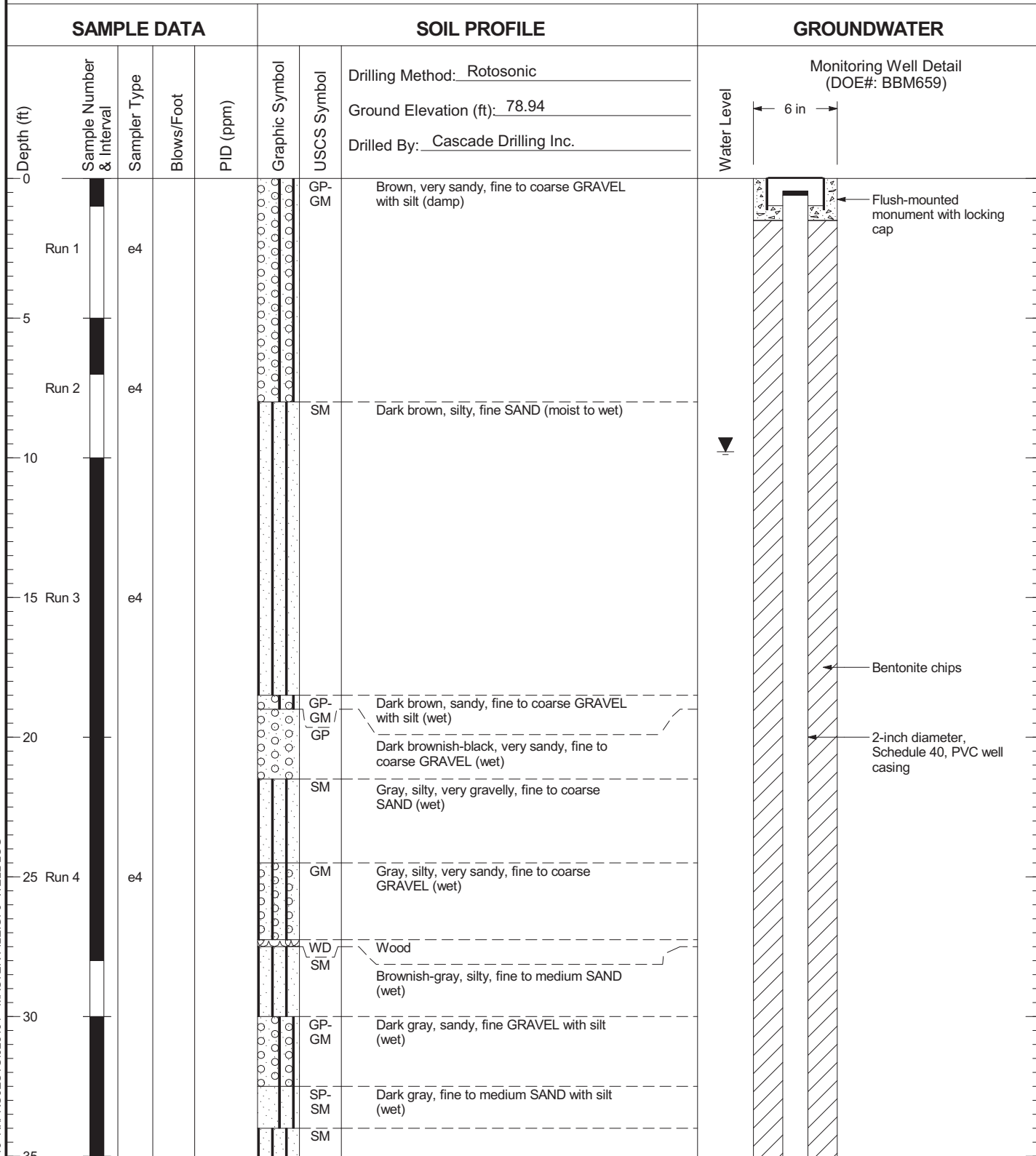


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Auburn, Washington

### Log of Monitoring Well AGW145

Figure  
**C-114**  
(2 of 2)

# AGW146



- 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. DOE Unique Well Number: **BBM659**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW146

Figure  
C-115  
(1 of 3)



# AGW146

SAMPLE DATA		SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	
	Ground Elevation (ft): <u>78.94</u> Drilled By: <u>Cascade Drilling Inc.</u>							
35	Run 5	e4			SM	SM	Monitoring Well Detail (DOE#: BBM659)	
40						Dark gray, silty, fine SAND (wet) - grades very silty	Water Level	
45	Run 6	e4			GP	GP	Bentonite chips	
50					WD	WD		2-inch diameter, Schedule 40, PVC well casing
55					GP	GP		
60	Run 7	e4			SM	SM		
65					GP	GP		
70					SP	SM		

- 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. DOE Unique Well Number: **BBM659**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW146

Figure  
C-115  
(2 of 3)

# AGW146

SAMPLE DATA				SOIL PROFILE			GROUNDWATER					
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Rotosonic	Water Level	Monitoring Well Detail (DOE#: BBM659)			
										Ground Elevation (ft): 78.94		
										Drilled By: Cascade Drilling Inc.		
	70					SM						
						WD				- grades very silty Dark gray, silty, fine to medium SAND (wet)		
						SM				Wood Dark gray, silty, fine to medium SAND (wet)		
	75	Run 8	e4							- grades brown and with trace gravel		
						GP-GM				Gray, sandy, fine GRAVEL with silt (wet)		
						GP				Brown, fine to coarse GRAVEL with sand (wet)		
						SP				Brown, medium to coarse SAND with trace gravel (wet)		
	80											
		Run 9	e4			GP				Brown, sandy, fine GRAVEL (wet) - grades fine to coarse GRAVEL		
						SM				Gray, very silty, fine SAND with fine gravel and medium to coarse sand (wet)		
	85					SM				Gray, very silty, fine SAND (wet)		
		Run 10	e4			ML				Gray, very sandy SILT (wet)		
					ML/CL		<b>(OCEOLA MUD FLOW)</b> Gray, clayey SILT with sand (wet)					
					SM		- grades sandy Gray, very silty, fine SAND (wet)					
90												
	Run 11	e4					- grades with gravel - grades gravelly					
95												

Boring Completed 10/07/09  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/07/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.69 ft.  
Total Depth of Monitoring Well = 89.6 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. DOE Unique Well Number: **BBM659**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

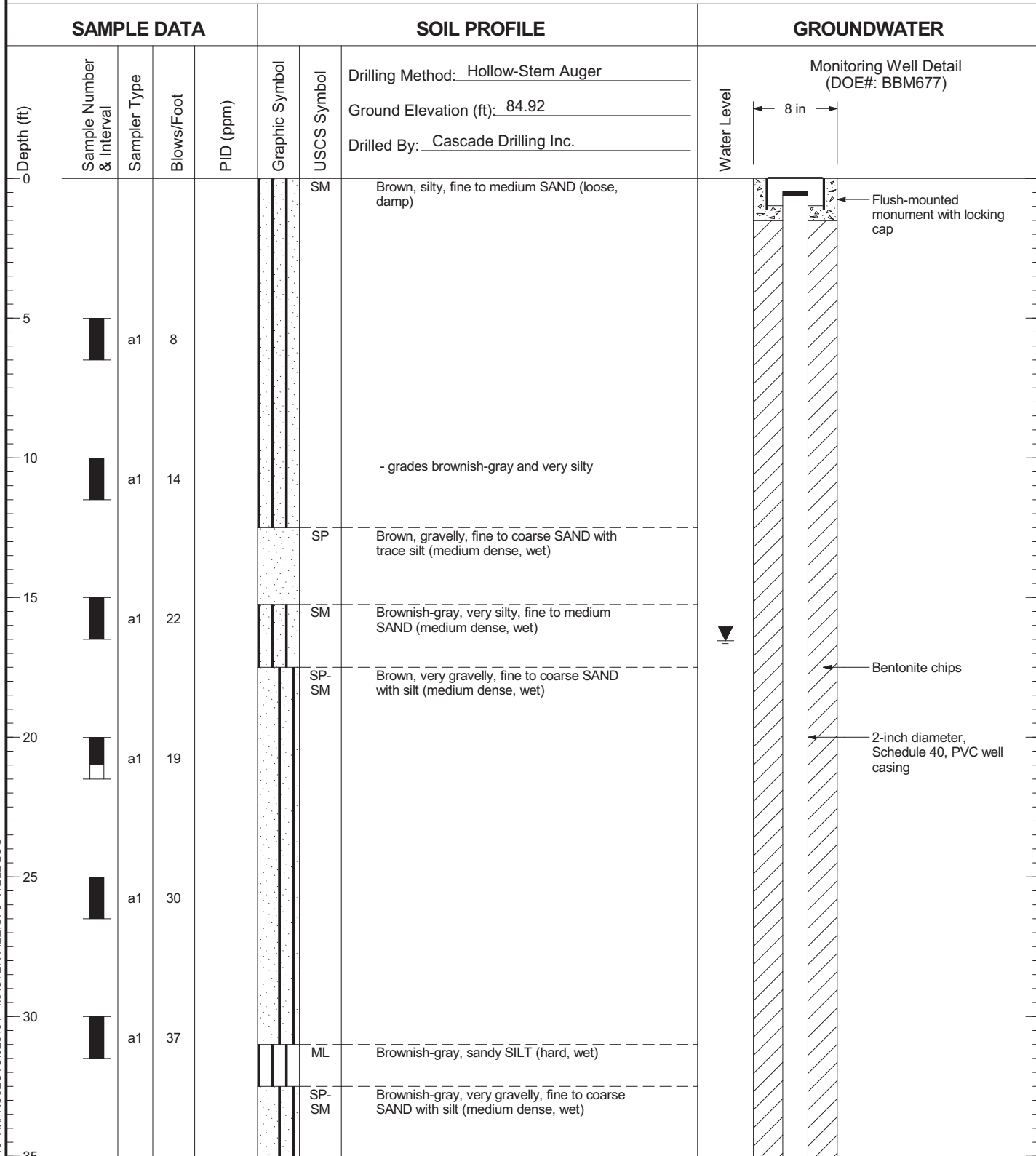


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW146

Figure  
C-115  
(3 of 3)

# AGW147



- 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. DOE Unique Well Number: **BBM677**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

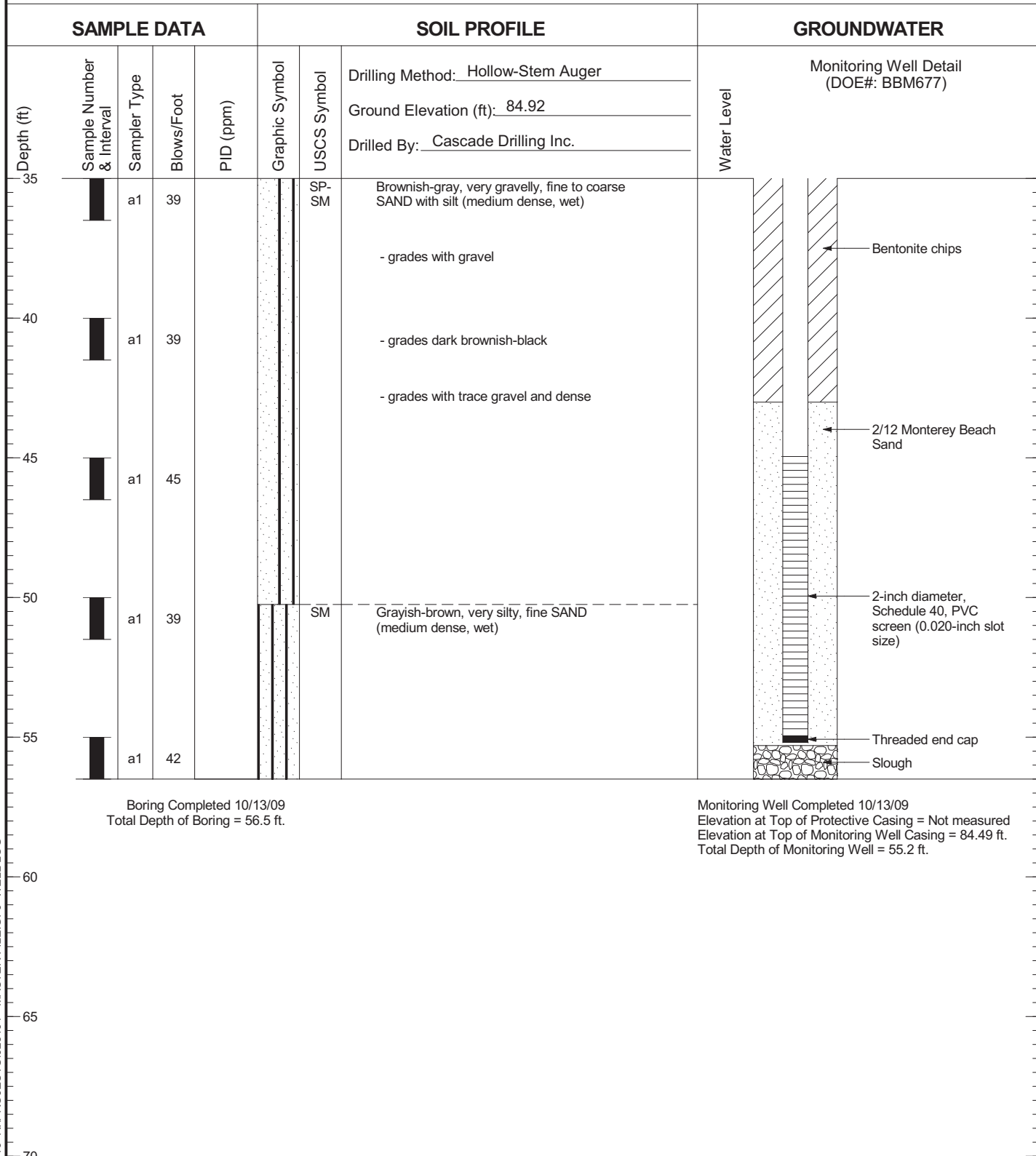


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Auburn, Washington

Log of Monitoring Well AGW147

Figure  
C-116  
(1 of 2)

# AGW147



025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: **BBM677**

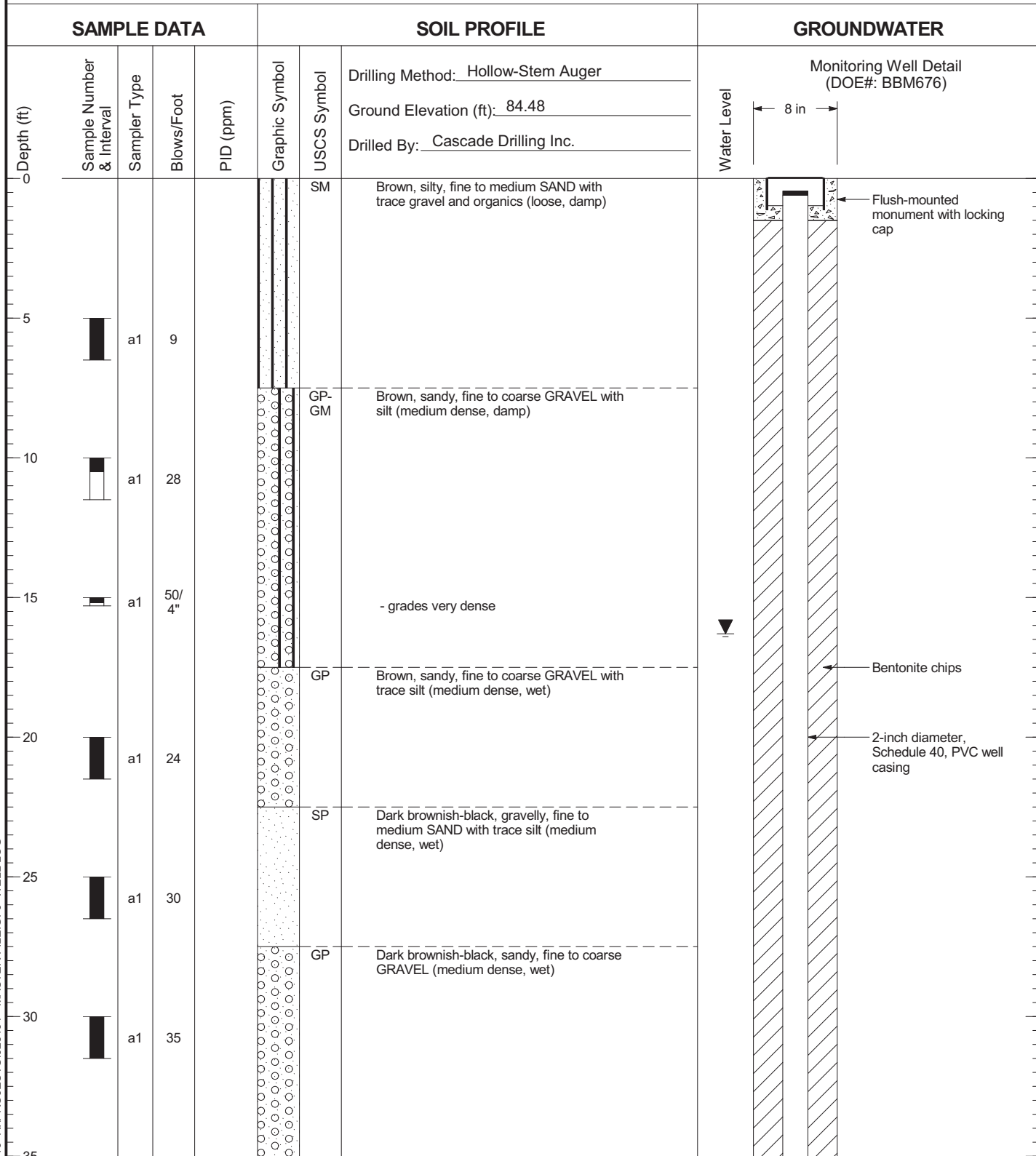


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW147

Figure  
C-116  
(2 of 2)

# AGW148



- 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. DOE Unique Well Number: **BBM676**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPJ WELL LOG



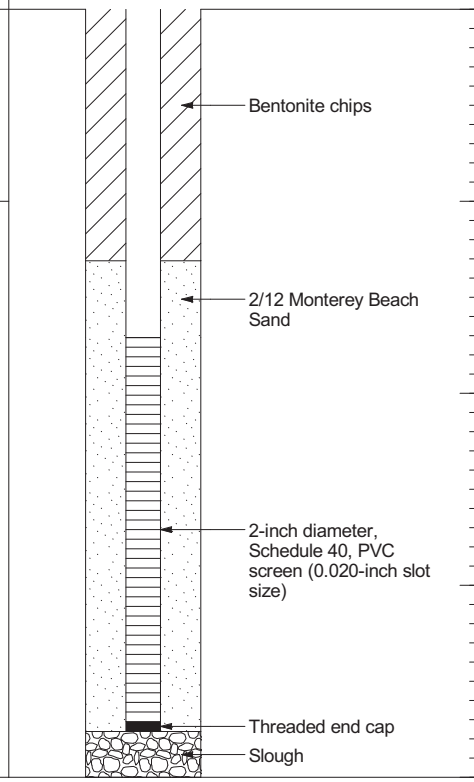
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW148

Figure  
C-117  
(1 of 2)

# AGW148

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>	Water Level
	Ground Elevation (ft): <u>84.48</u>					Drilled By: <u>Cascade Drilling Inc.</u>	Monitoring Well Detail (DOE#: <u>BBM676</u> )	
35	a1	35			GP	Dark brownish-black, sandy, fine to coarse GRAVEL (medium dense, wet)		
40	a1	39				- grades very sandy		
45						Sampler lost in boring and drillers were unable to retrieve it. No further samples were collected.		
50								
55								



Boring Completed 10/12/09  
Total Depth of Boring = 55.0 ft.

Monitoring Well Completed 10/12/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 83.80 ft.  
Total Depth of Monitoring Well = 53.8 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. DOE Unique Well Number: **BBM676**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

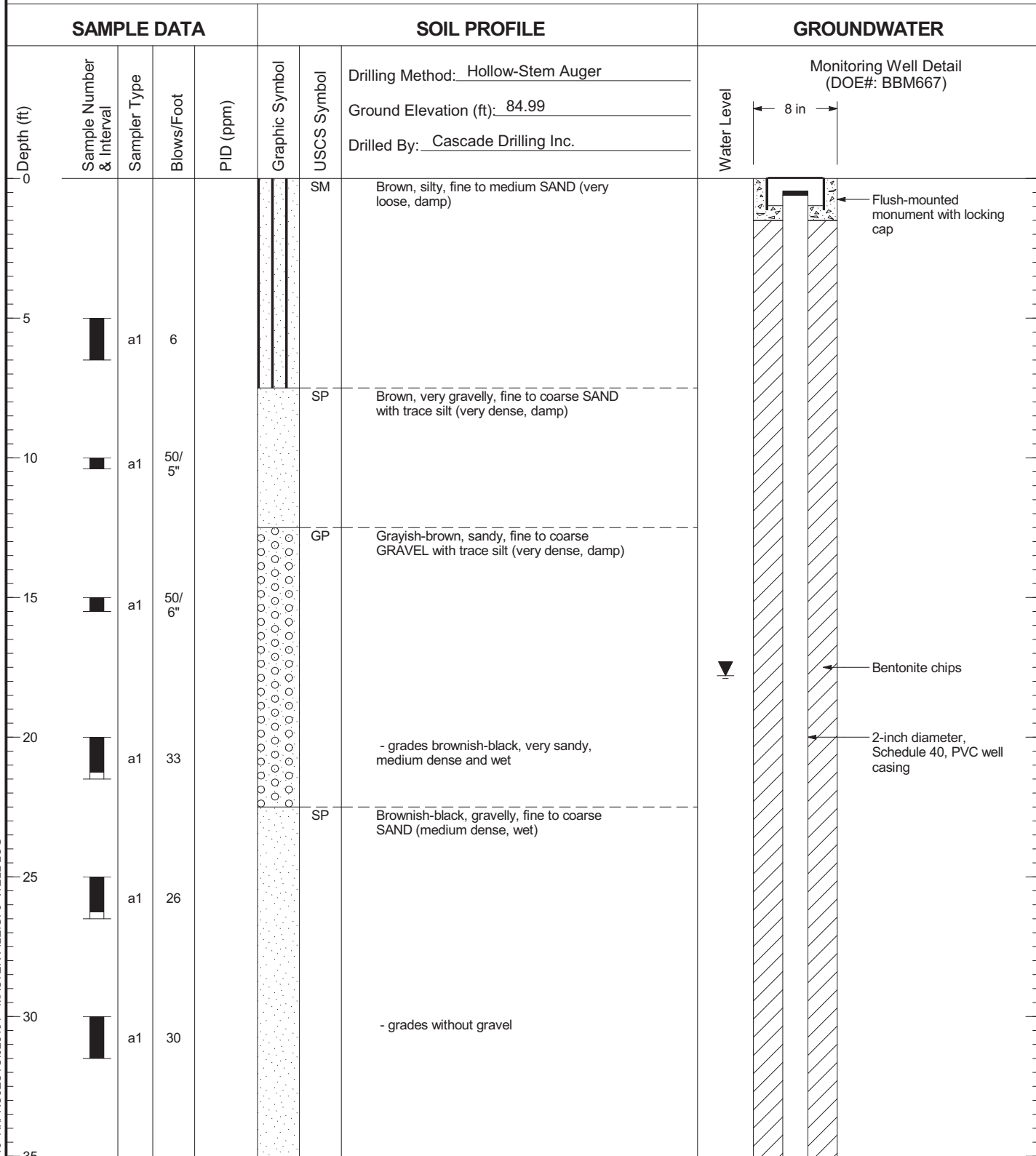


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW148

Figure  
C-117  
(2 of 2)

# AGW149



- 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. DOE Unique Well Number: **BBM667**

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

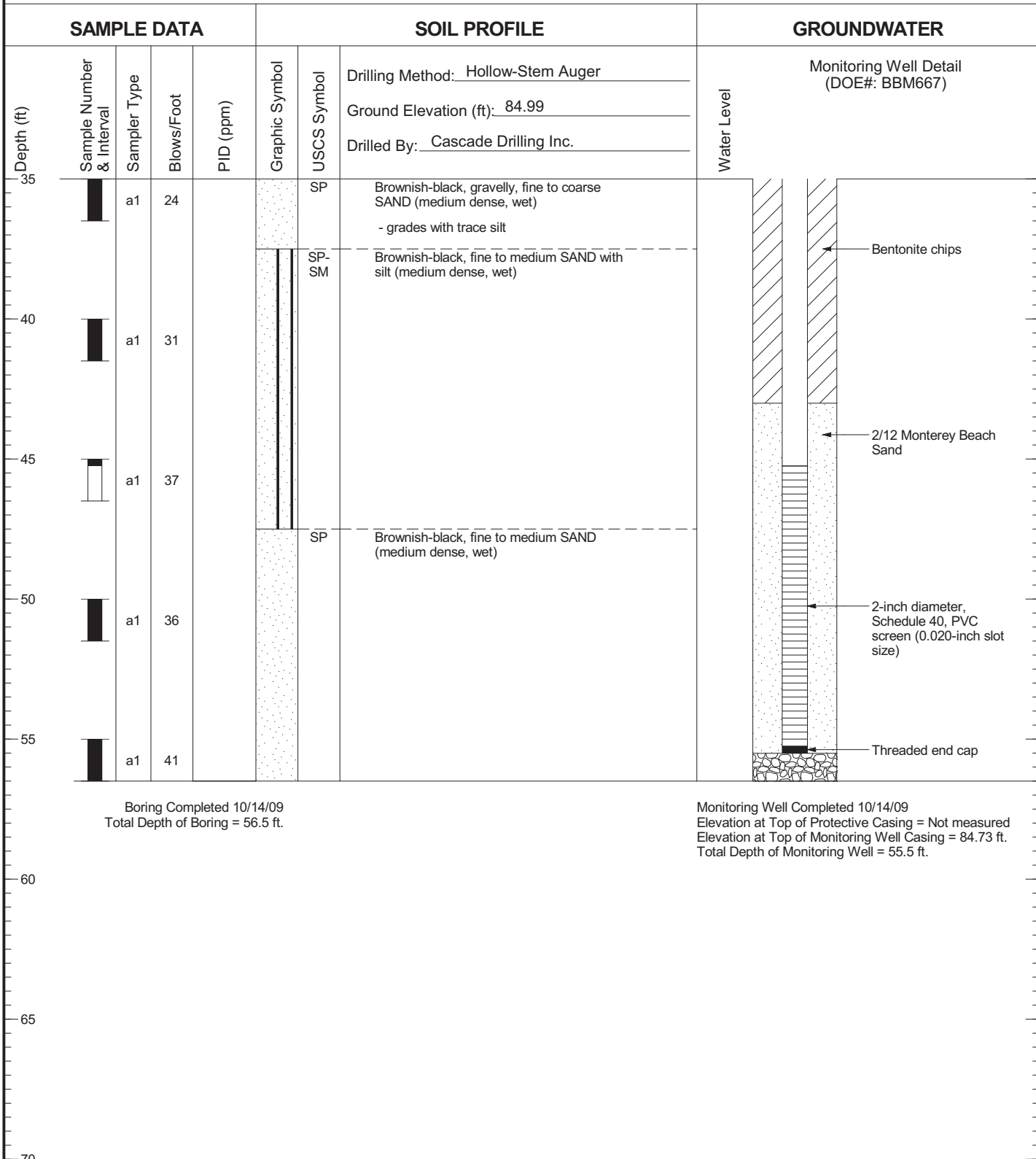


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW149

Figure  
C-118  
(1 of 2)

# AGW149



Boring Completed 10/14/09  
Total Depth of Boring = 56.5 ft.

Monitoring Well Completed 10/14/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 84.73 ft.  
Total Depth of Monitoring Well = 55.5 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.
  4. DOE Unique Well Number: **BBM667**

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



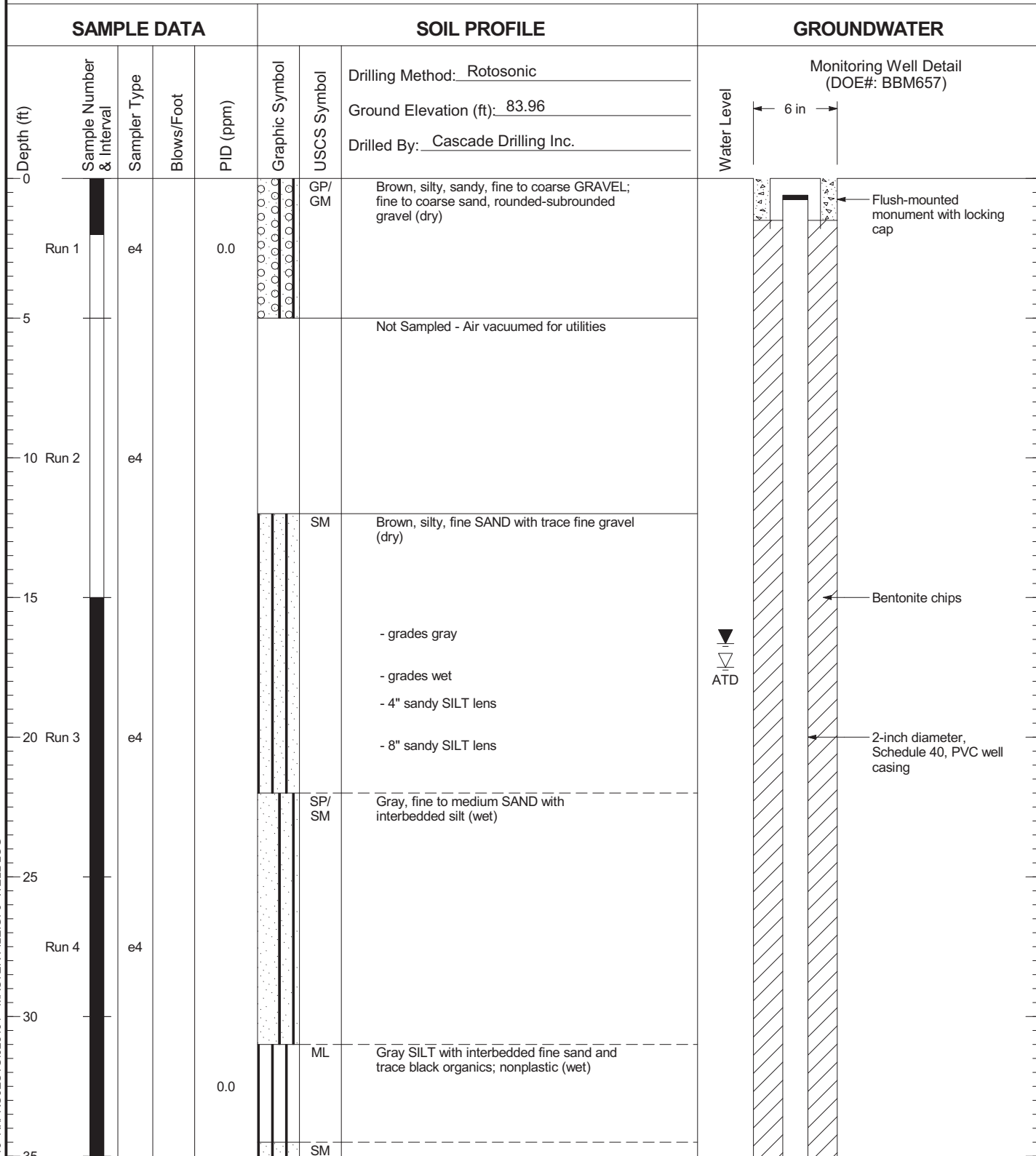
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW149

Figure  
C-118  
(2 of 2)



# AGW150



- 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. DOE Unique Well Number: **BBM657**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

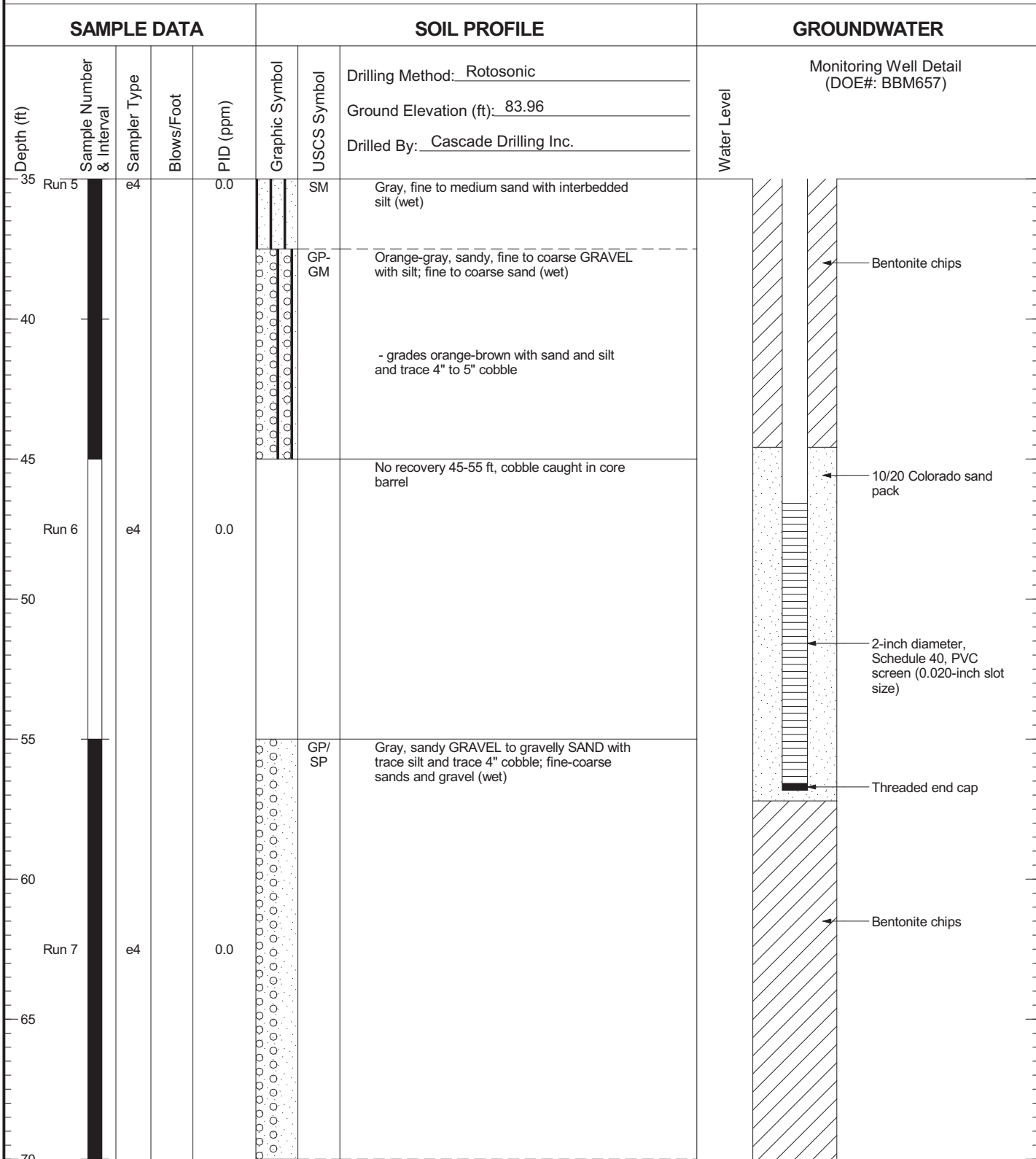


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW150

Figure  
C-119  
(1 of 3)

# AGW150



- 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. DOE Unique Well Number: **BBM657**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW150

Figure  
C-119  
(2 of 3)

# AGW150

SAMPLE DATA				SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BBM657)
	70						Ground Elevation (ft): <u>83.96</u>		
	Run 8	e4		0.0	SP	Gray, gravelly, fine to coarse SAND with trace silt; fine gravel (wet)	Drilled By: <u>Cascade Drilling Inc.</u>		
	75								
80									
Run 9	e4		0.0	SP/SM	Gray, medium SAND with interbedded silty fine sand (wet)				Bentonite chips
85									
90									
Run 10	e4		0.0	SP	Brownish-gray, gravelly, medium to coarse SAND with trace silt; fine to coarse gravel (wet)				
95									

Boring Completed 10/05/09  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/05/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 83.54 ft.  
Total Depth of Monitoring Well = 56.8 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. DOE Unique Well Number: **BBM657**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW150

Figure  
C-119  
(3 of 3)

# AGW151

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>Hollow-Stem Auger</u>	Monitoring Well Detail (DOE#: BBM679)  Water Level  8 in  Flush-mounted monument with locking cap  Bentonite chips  2-inch diameter, Schedule 40, PVC well casing
							Ground Elevation (ft): <u>86.62</u>	
							Drilled By: <u>Cascade Drilling Inc.</u>	
	a1	a1	5		SP-SM		Brown iron oxide mottled, fine to medium SAND with silt (very loose, damp)	
	a1	a1	23		SM		Brown iron oxide mottled, very silty, fine to medium SAND (very loose, damp)	
	a1	a1	22		SP-SM		Brown, fine to medium SAND with silt and trace gravel (medium dense, damp)	
	a1	a1	26		SM		Dark gray, silty, fine to medium SAND (medium dense, damp)	
	a1	a1	20		SM		Brownish-gray, silty, fine to coarse SAND (medium dense, moist)	
							Dark brownish-black, silty, fine to medium SAND (medium dense, moist)	
							Dark brownish-black, fine to coarse SAND with silt and trace gravel (medium dense, wet)	
							Dark gray, silty, fine to medium SAND (medium dense, wet)	

- 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. DOE Unique Well Number: **BBM679**

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

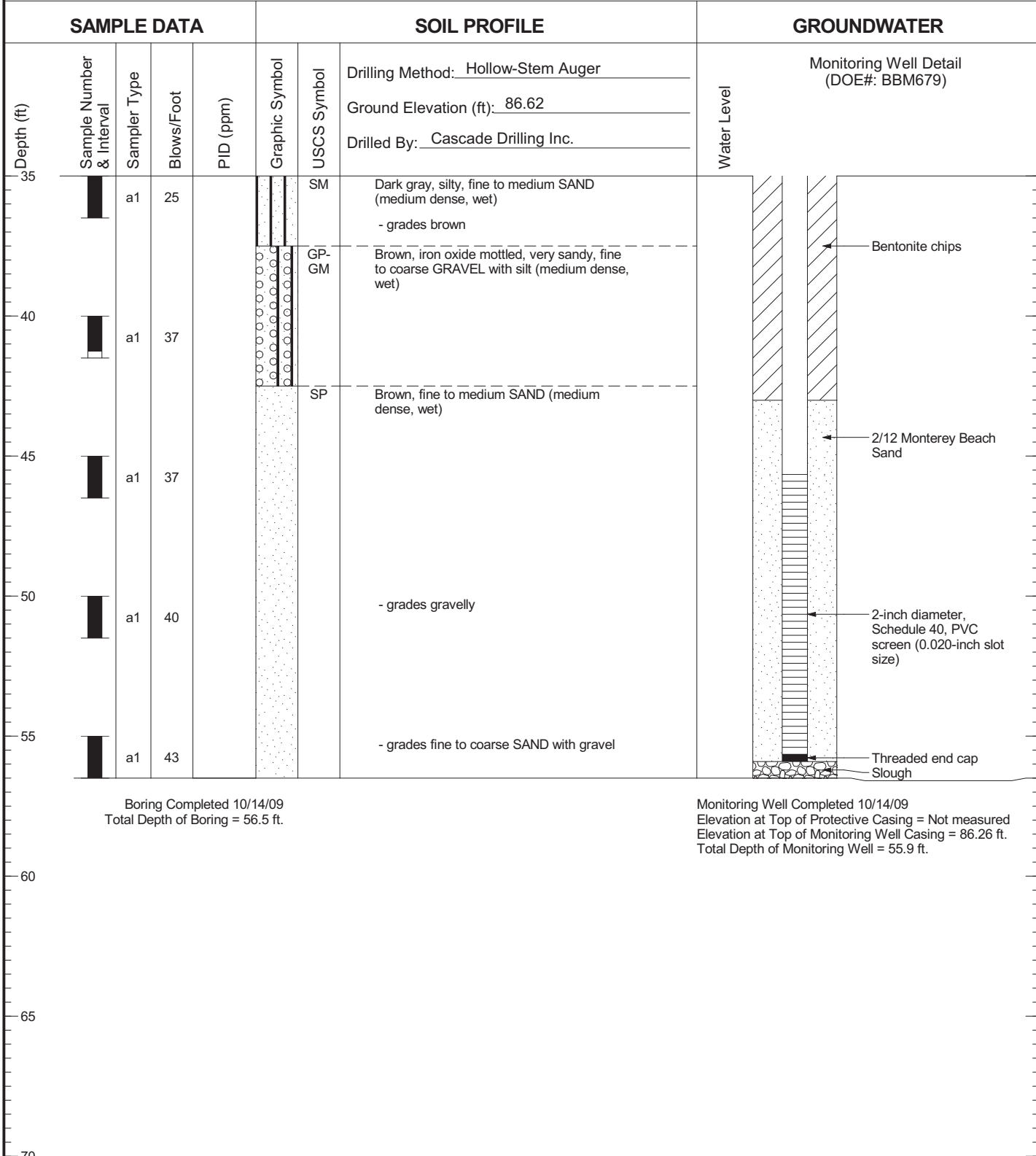


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW151

Figure  
C-120  
(1 of 2)

# AGW151



Boring Completed 10/14/09  
Total Depth of Boring = 56.5 ft.

Monitoring Well Completed 10/14/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.26 ft.  
Total Depth of Monitoring Well = 55.9 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. DOE Unique Well Number: **BBM679**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

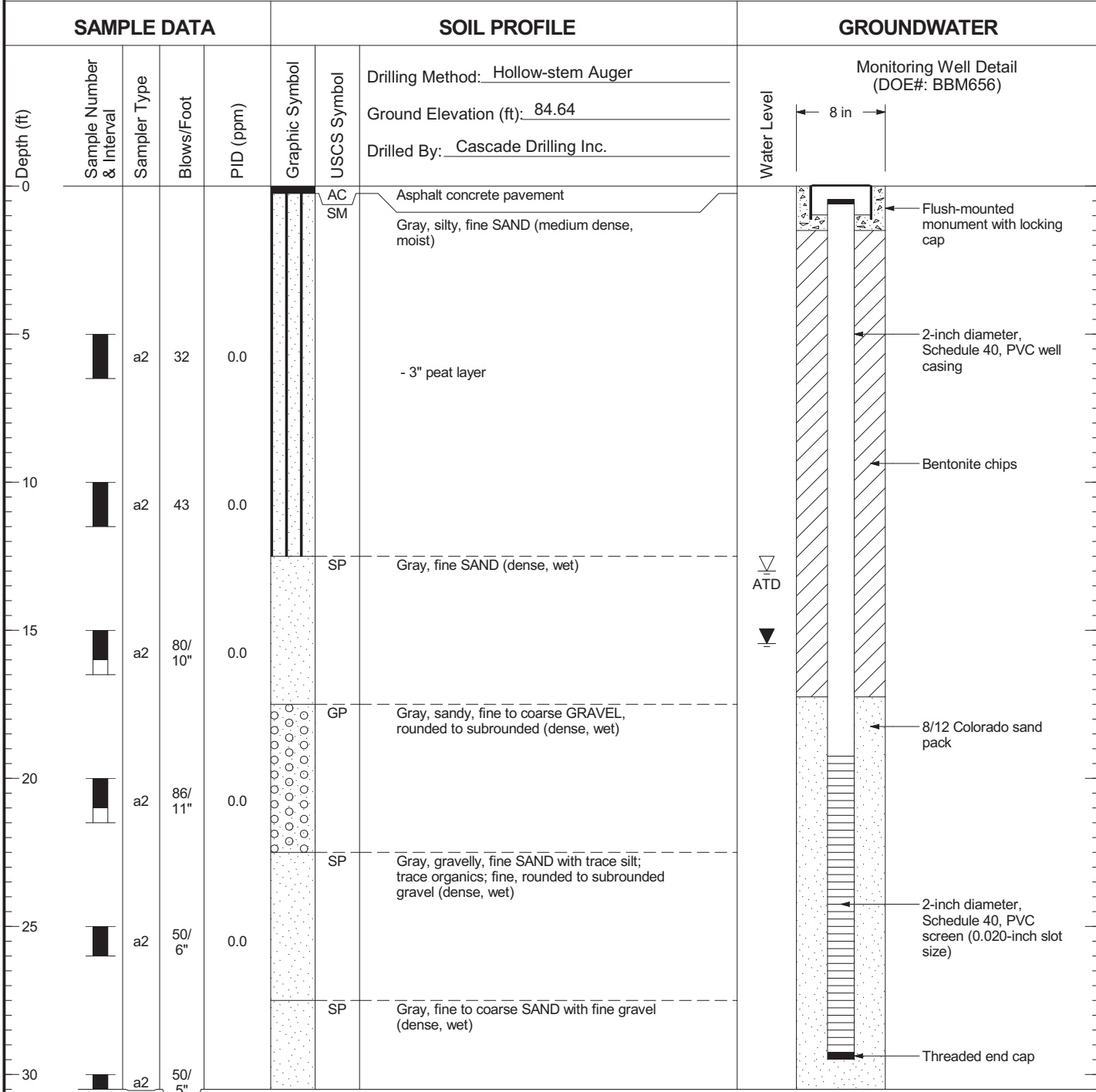


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW151

Figure  
C-120  
(2 of 2)

# AGW152



Boring Completed 09/30/09  
Total Depth of Boring = 30.5 ft.

Monitoring Well Completed 09/30/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 84.39 ft.  
Total Depth of Monitoring Well = 29.5 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.
  4. DOE Unique Well Number: **BBM656**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

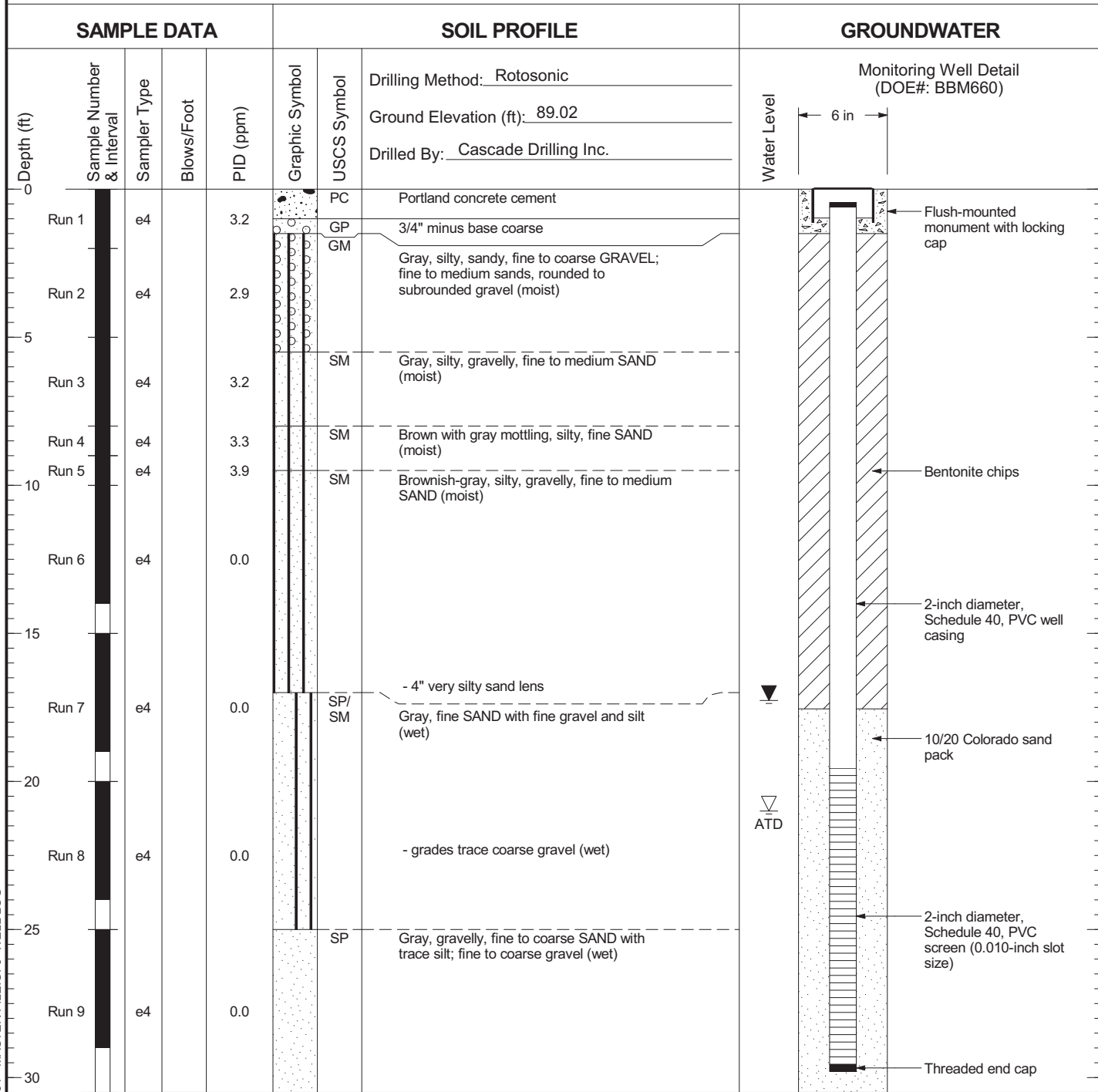


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Auburn, Washington

Log of Monitoring Well AGW152

Figure  
C-121

# AGW153



Boring Completed 10/02/09  
Total Depth of Boring = 30.5 ft.

Monitoring Well Completed 10/05/09  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 88.52 ft.  
Total Depth of Monitoring Well = 29.8 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. DOE Unique Well Number: **BBM660**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

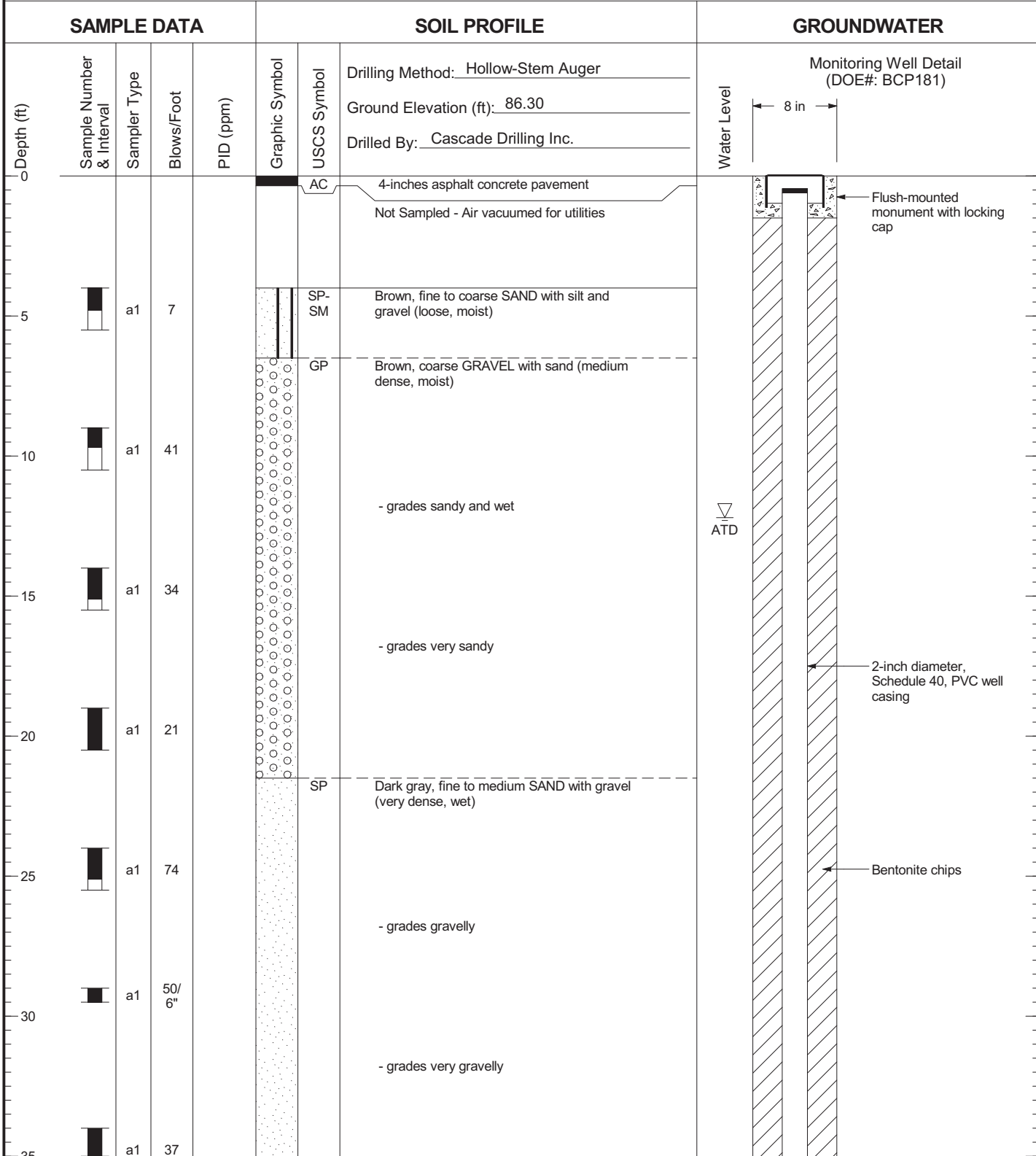


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW153

Figure  
C-122

# AGW154



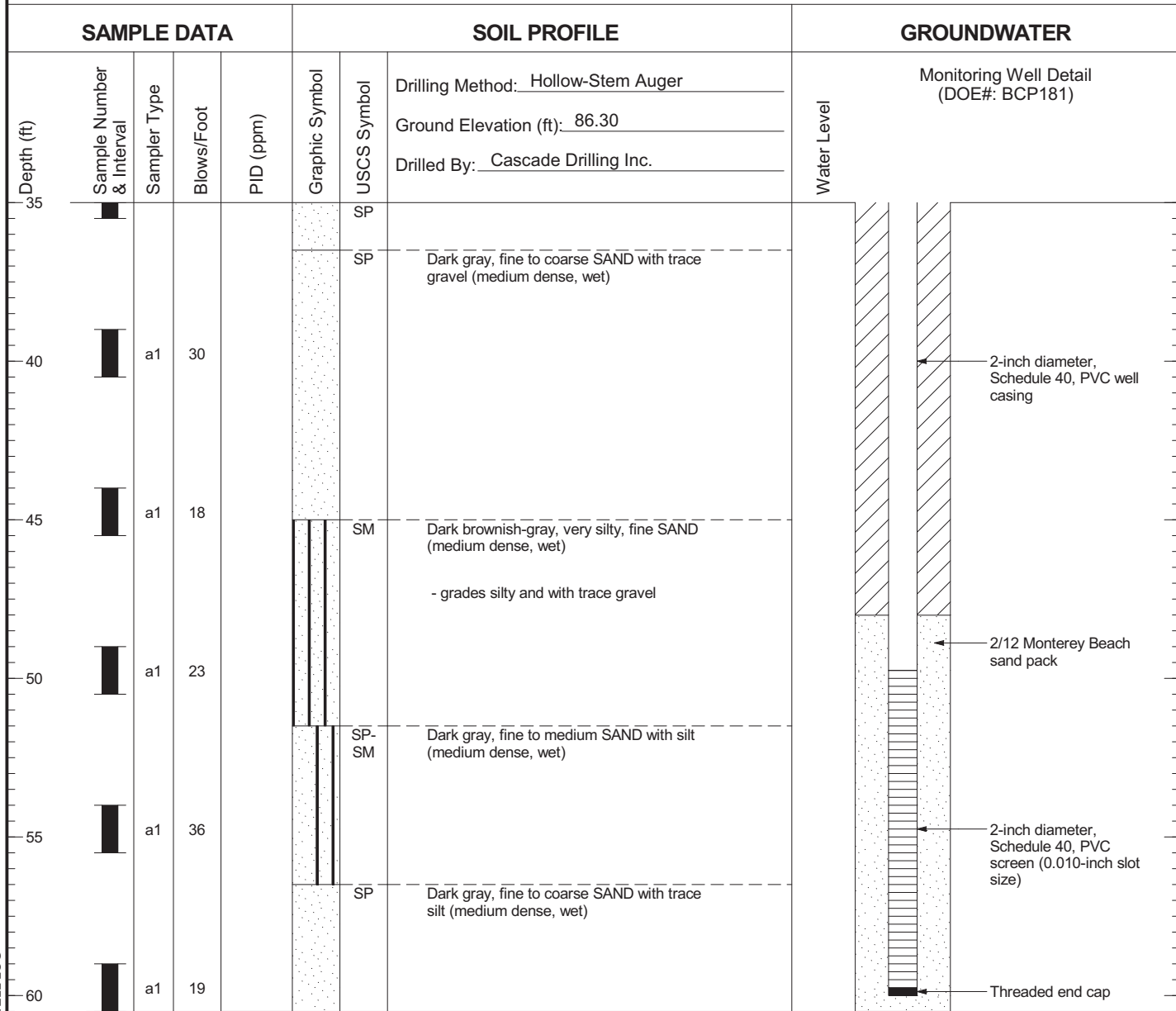
- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCP181

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG





# AGW154



Boring Completed 02/23/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 02/23/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.06 ft.  
Total Depth of Monitoring Well = 60.0 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. DOE Unique Well Number: BCP181

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

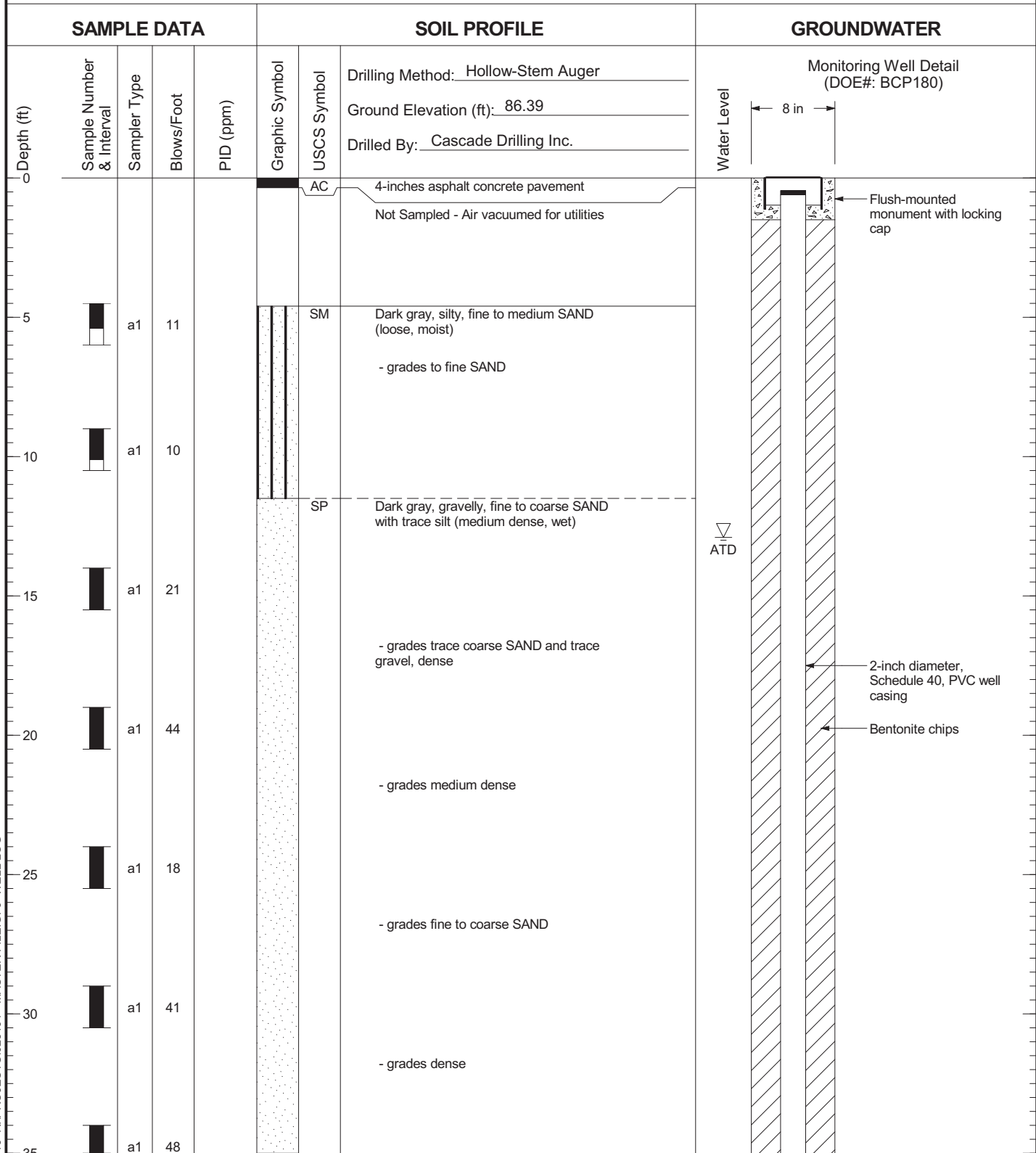


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW154

Figure  
C-123  
(2 of 2)

# AGW155



- 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. DOE Unique Well Number: BCP180

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

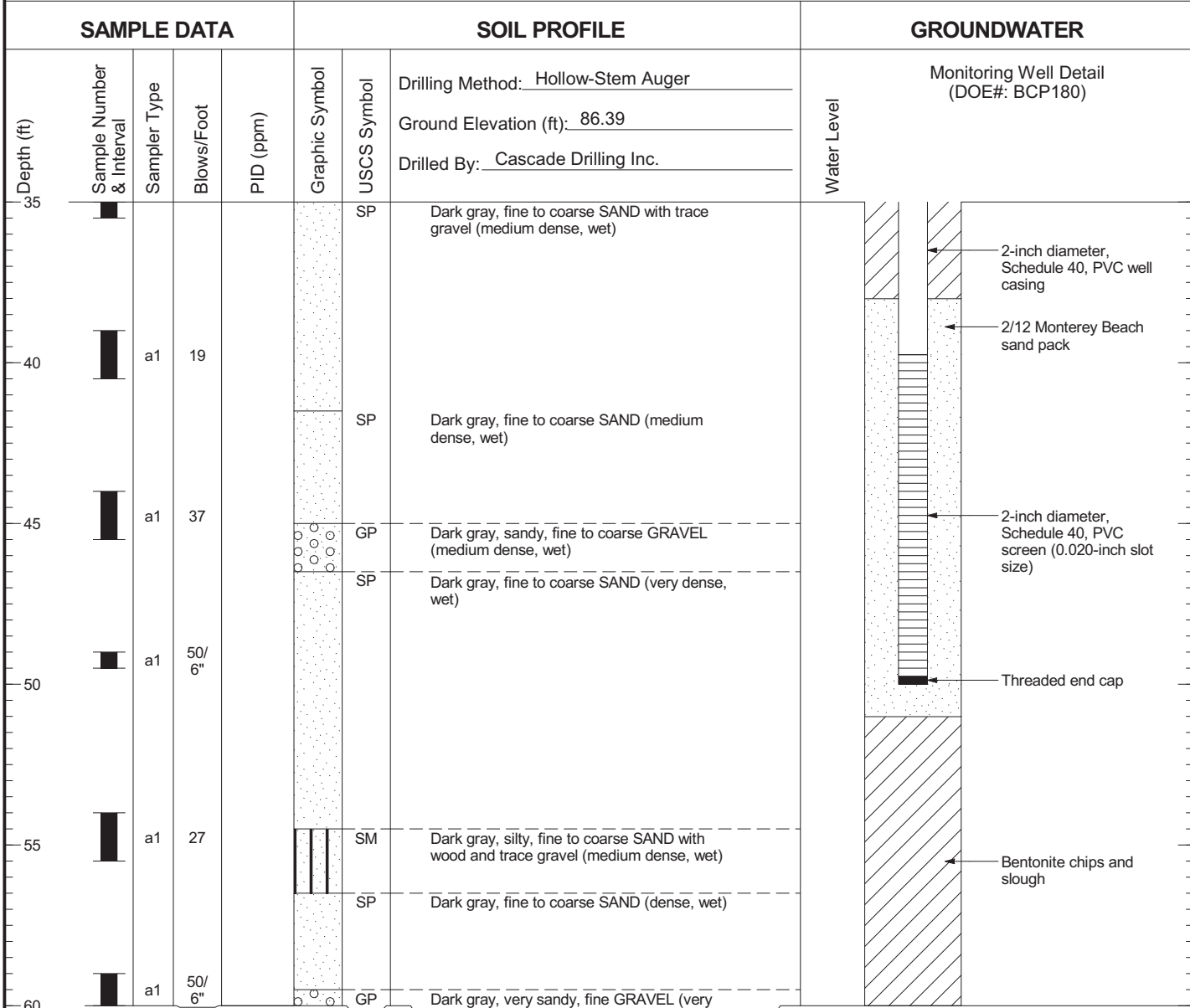


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Auburn, Washington

Log of Monitoring Well AGW155

Figure  
C-124  
(1 of 2)

# AGW155



Boring Completed 02/23/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 02/23/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.12 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: BCP180

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

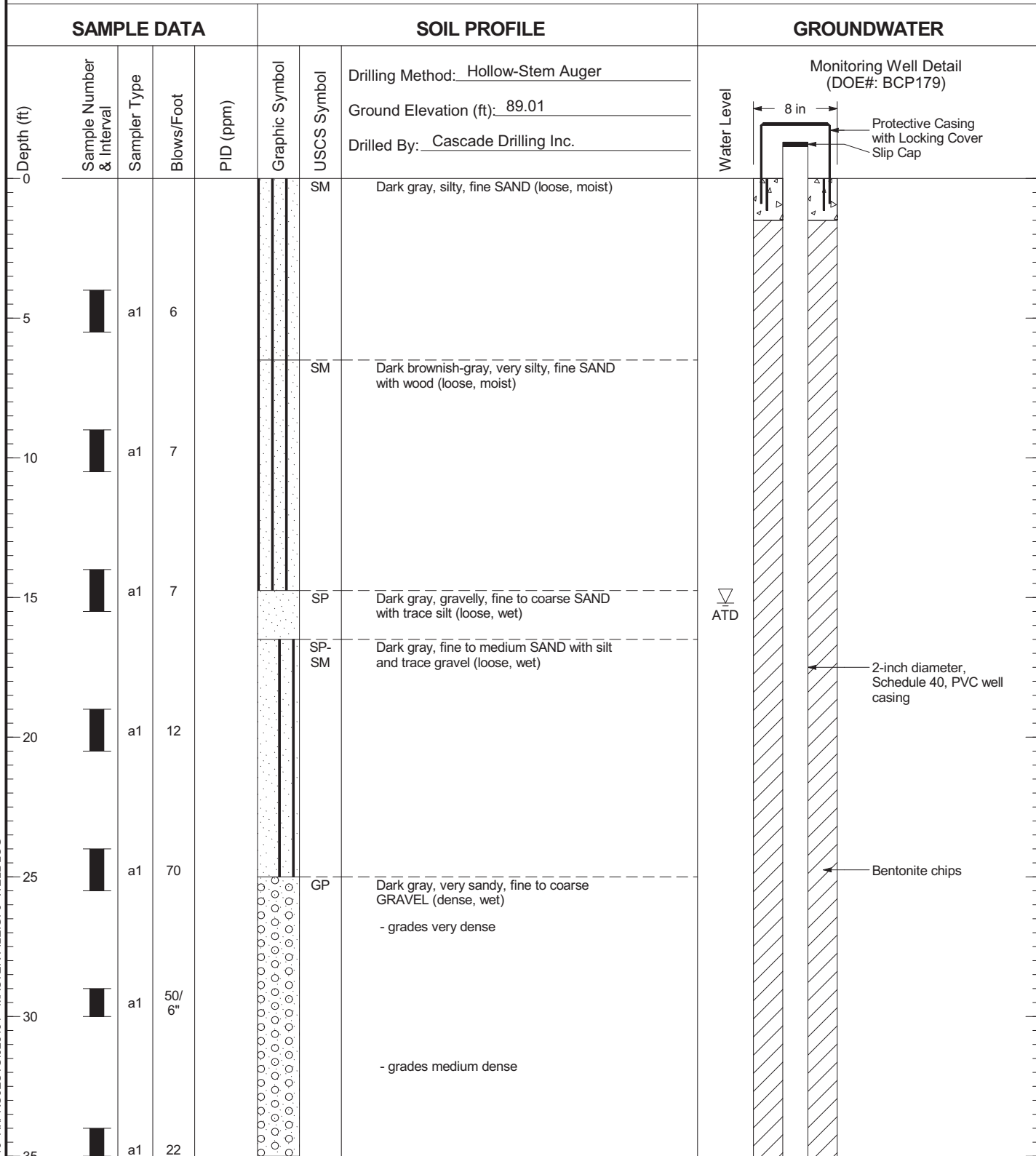


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW155

Figure  
C-124  
(2 of 2)

# AGW156



- 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. DOE Unique Well Number: BCP179

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

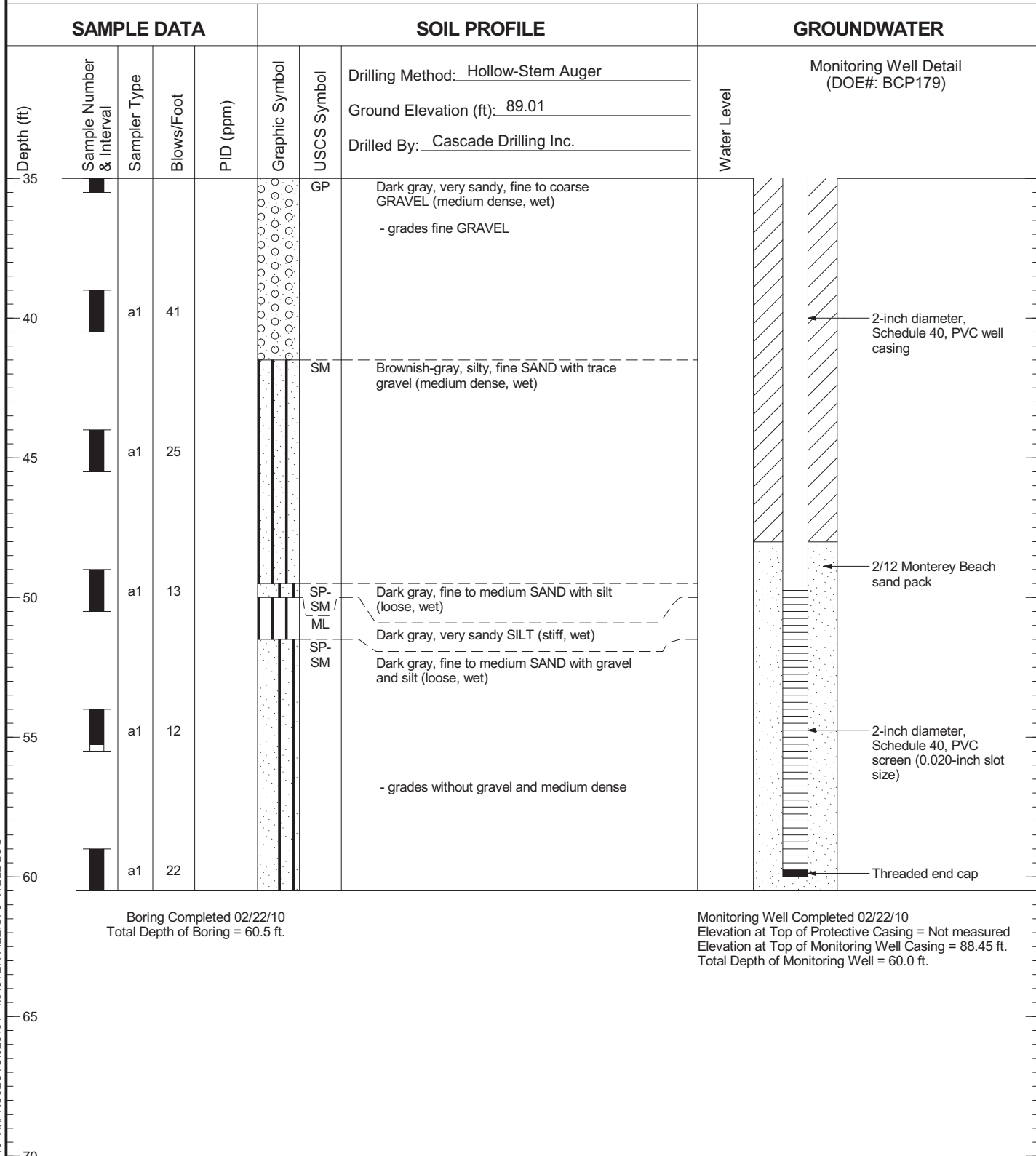


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW156

Figure  
C-125  
(1 of 2)

# AGW156



Boring Completed 02/22/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 02/22/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 88.45 ft.  
Total Depth of Monitoring Well = 60.0 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. DOE Unique Well Number: BCP179

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

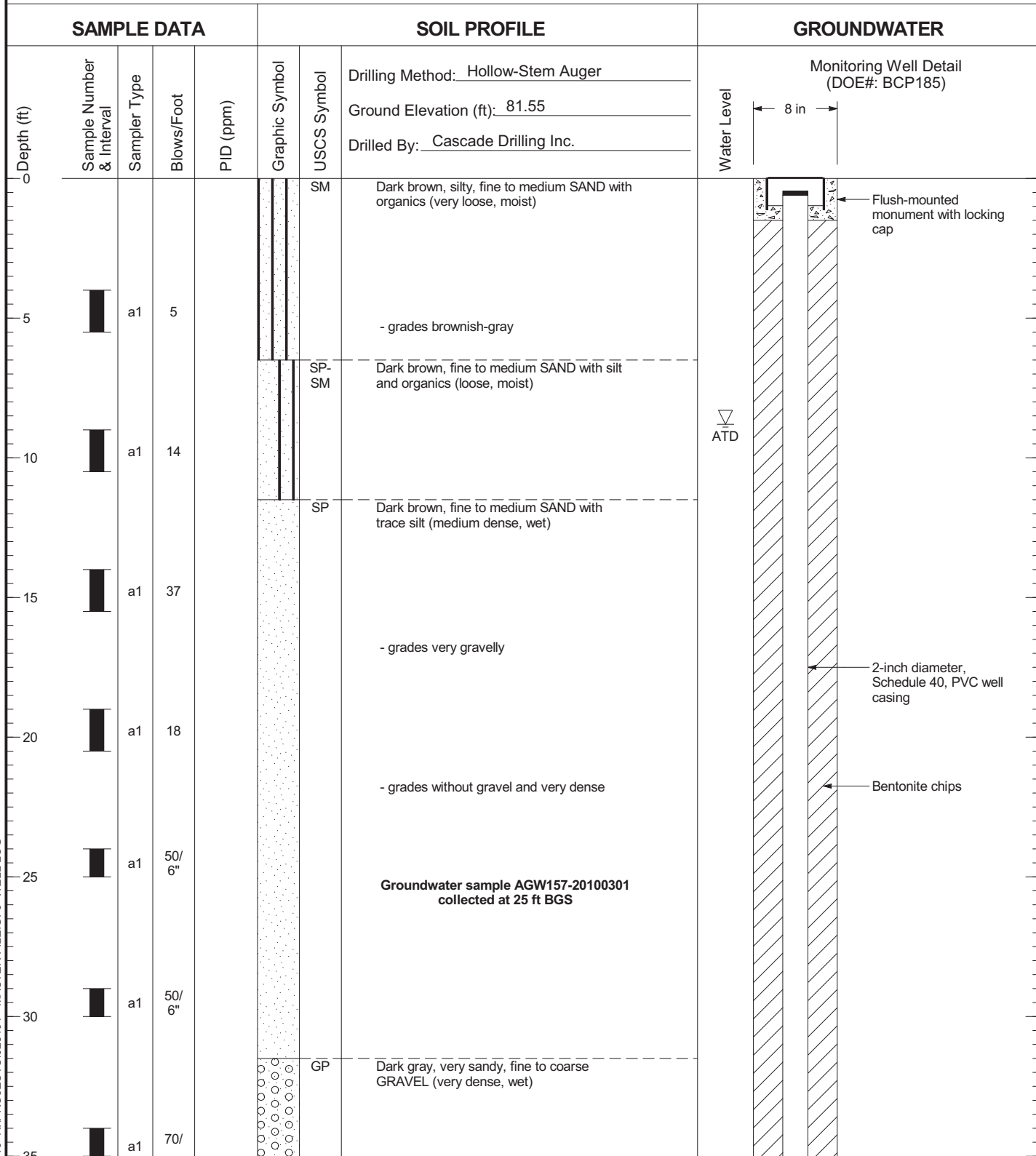


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW156

Figure  
C-125  
(2 of 2)

# AGW157



- 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. DOE Unique Well Number: BCP185

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

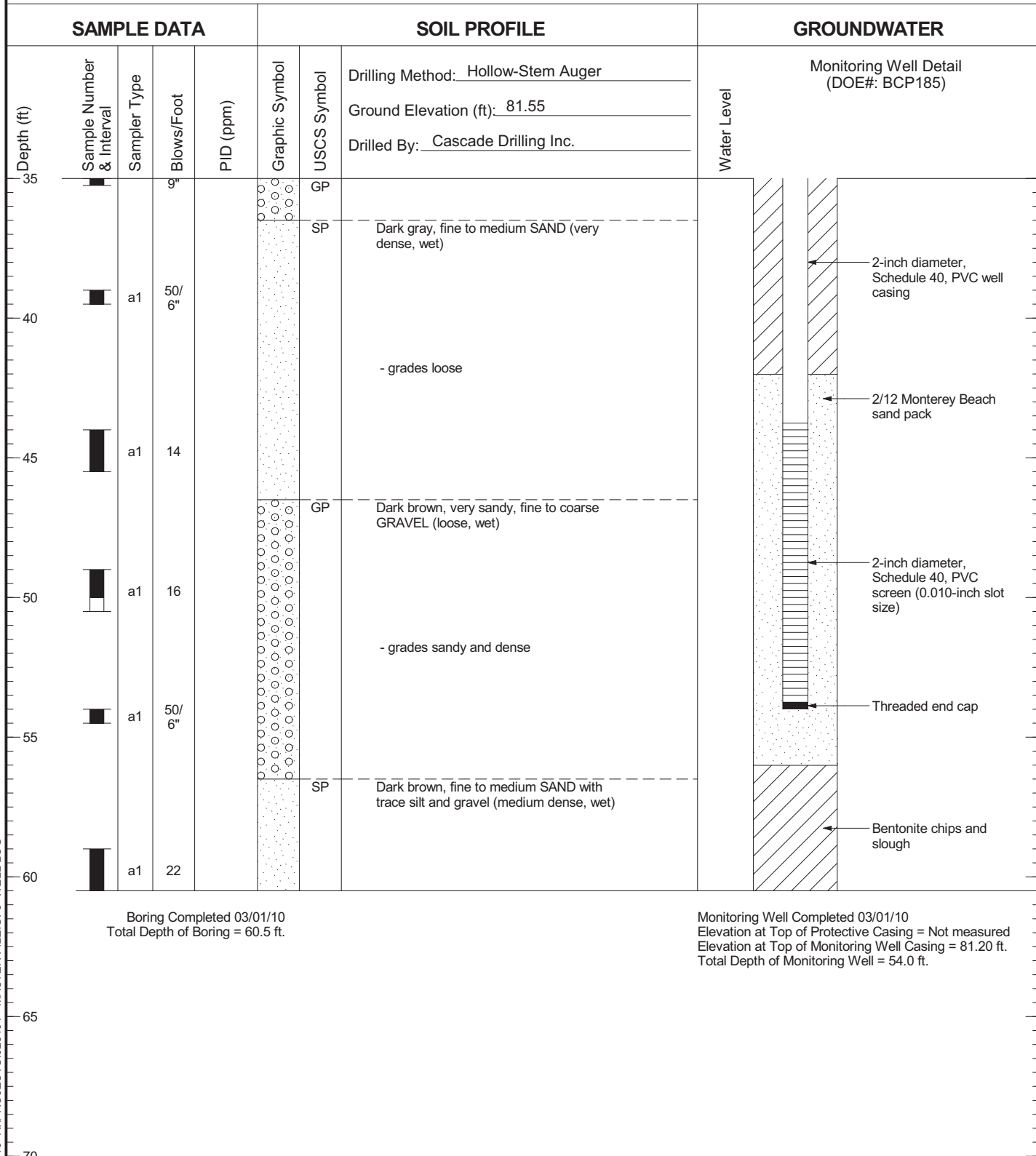


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Auburn, Washington

Log of Monitoring Well AGW157

Figure  
C-126  
(1 of 2)

# AGW157



Boring Completed 03/01/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 03/01/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 81.20 ft.  
Total Depth of Monitoring Well = 54.0 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. DOE Unique Well Number: BCP185

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

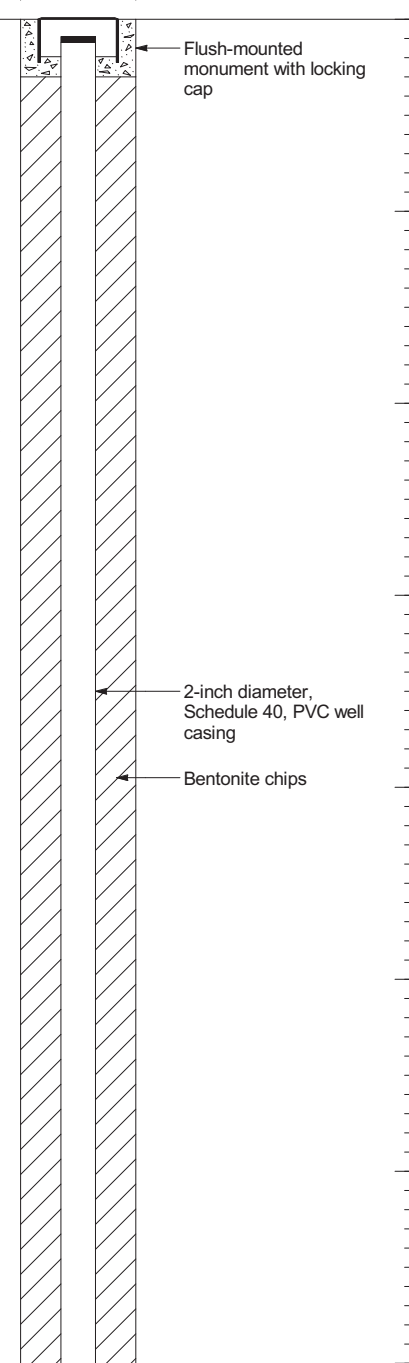



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW157

Figure  
C-126  
(2 of 2)

# AGW158

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>	Water Level
							Ground Elevation (ft): <u>82.55</u>	
0							Drilled By: <u>Cascade Drilling Inc.</u>	8 in
5							Not Sampled - See AGW159 for lithology	
10								
15								
20								2-inch diameter, Schedule 40, PVC well casing Bentonite chips
25							Groundwater sample AGW158-20100224 collected at 25 ft BGS	
30								
35								

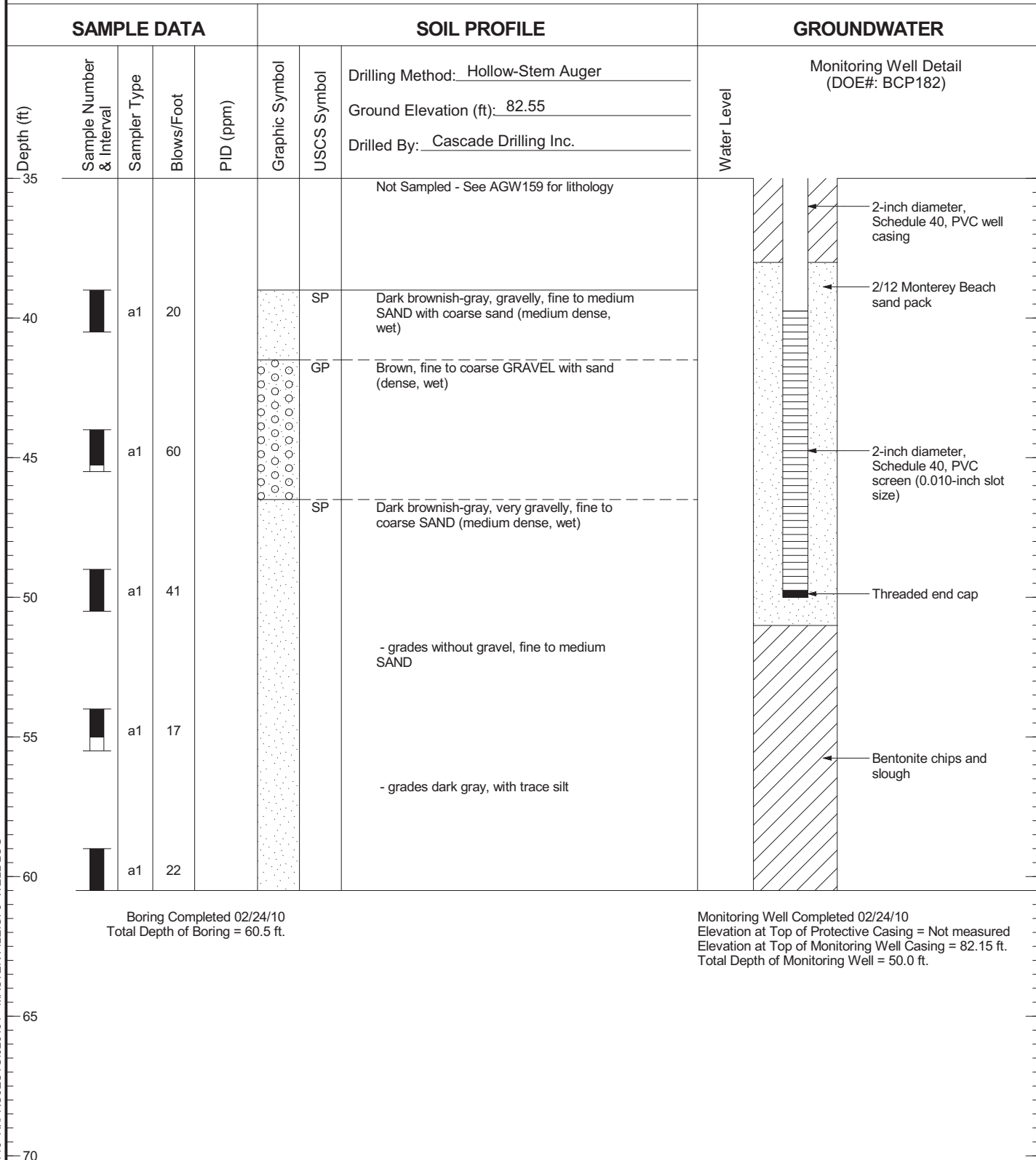
- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCP182

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG





# AGW158



Boring Completed 02/24/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 02/24/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 82.15 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: BCP182

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

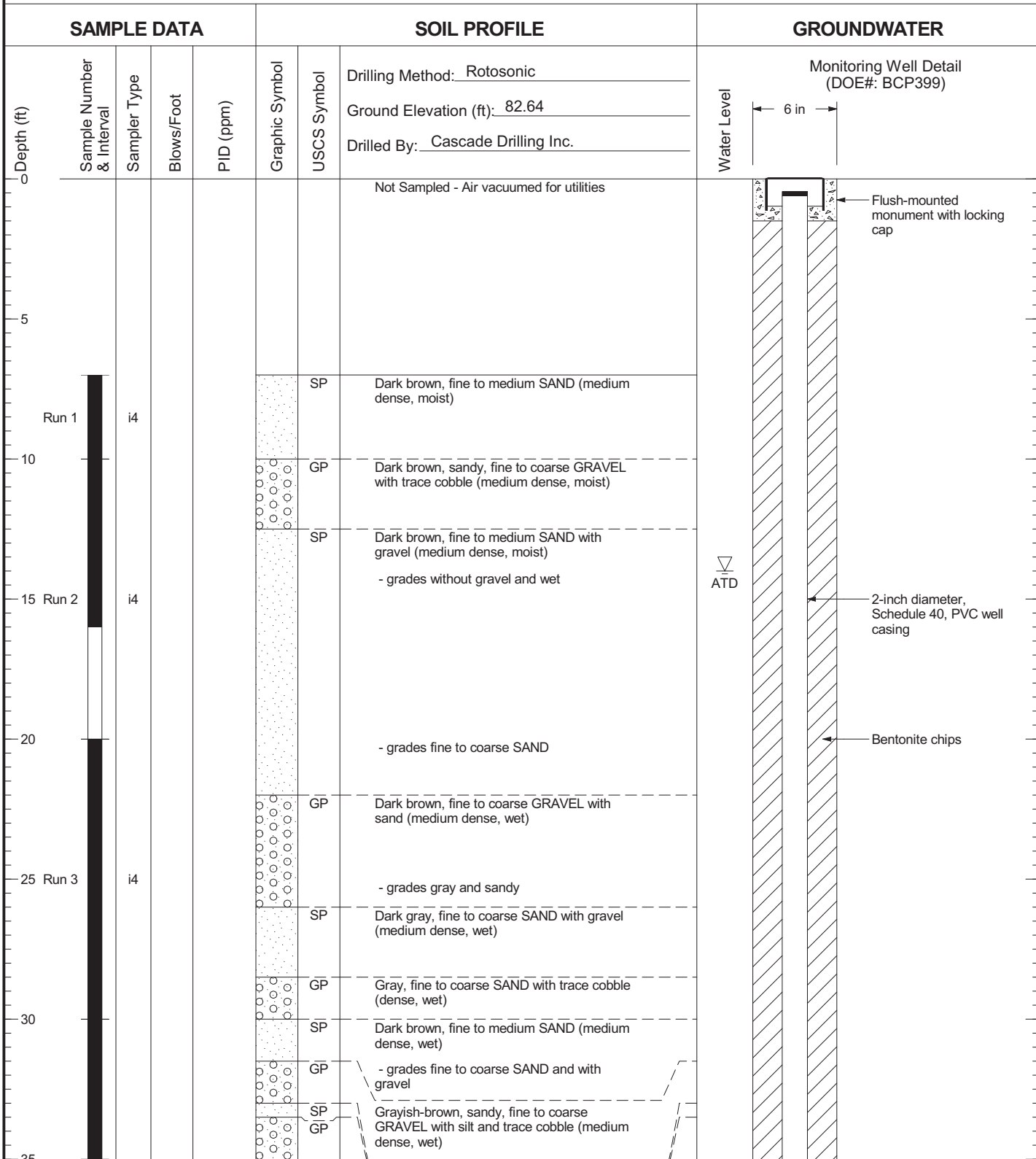


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW158

Figure  
C-127  
(2 of 2)

# AGW159



- 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. DOE Unique Well Number: BCP399

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW159

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>Rotosonic</u> Ground Elevation (ft): <u>82.64</u> Drilled By: <u>Cascade Drilling Inc.</u>						Monitoring Well Detail (DOE#: BCP399)
35	Run 4	i4				GP	
40						SP	
45	Run 5	i4				GP	
50						SP	
55	Run 6	i4				GP	
60						OL SM	
65	Run 7	i4				GP-GM	
70						GP	

- 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. DOE Unique Well Number: BCP399

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

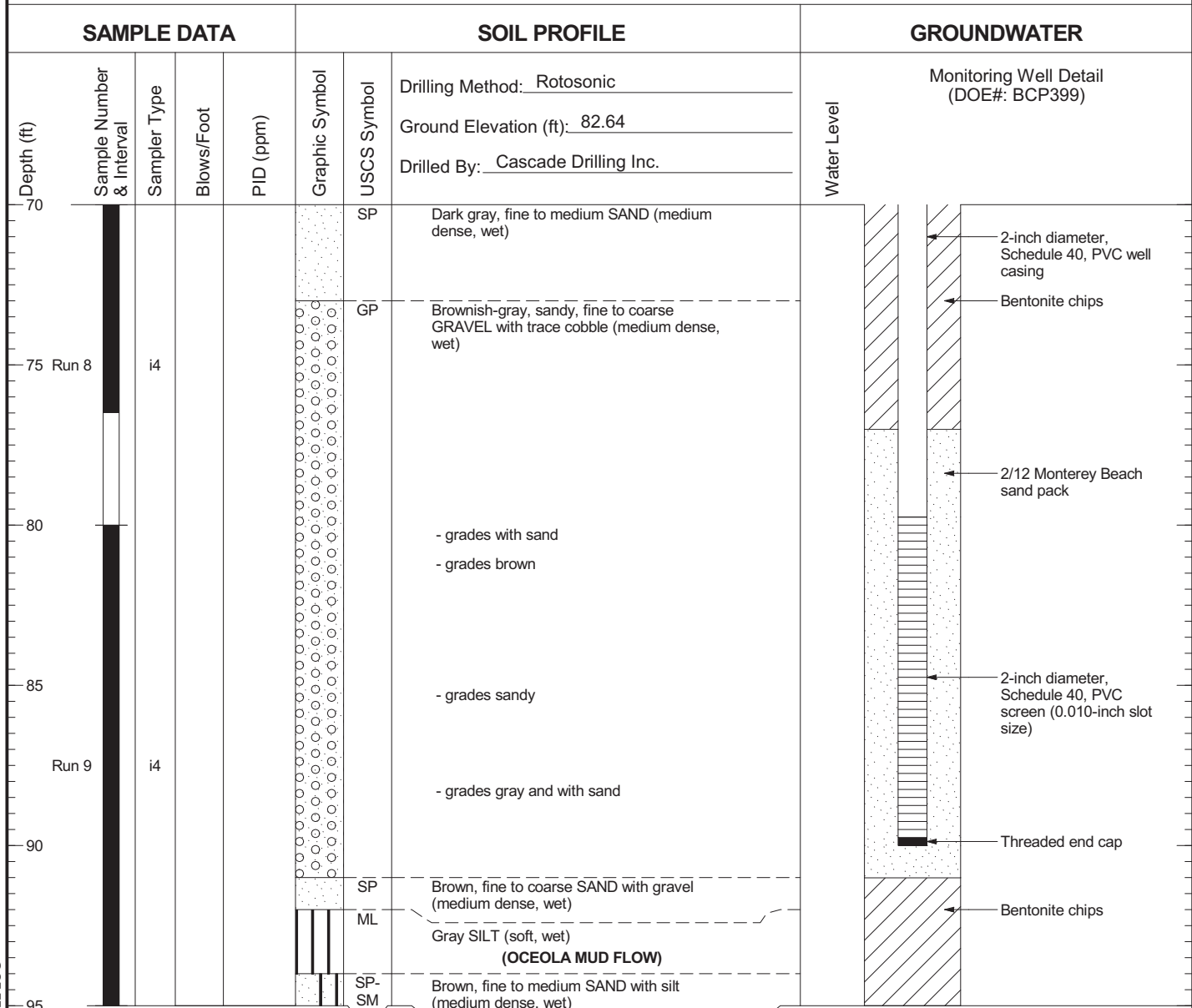


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW159

Figure  
C-128  
(2 of 3)

# AGW159



Boring Completed 03/23/10  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 03/23/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 82.03 ft.  
Total Depth of Monitoring Well = 90.0 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. DOE Unique Well Number: BCP399

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

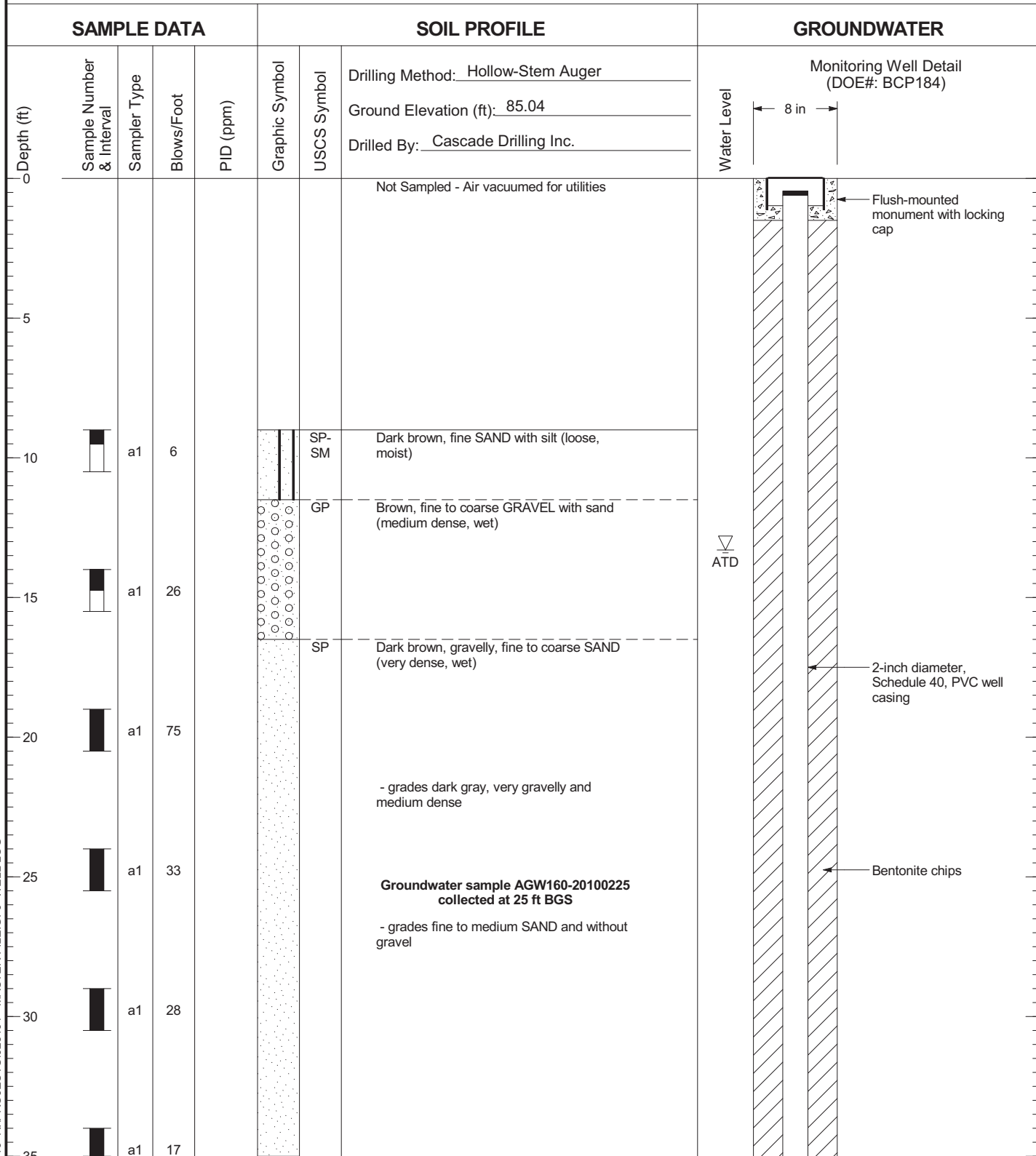


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW159

Figure  
C-128  
(3 of 3)

# AGW160



- 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. DOE Unique Well Number: BCP184

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW160

Figure  
C-129  
(1 of 2)

# AGW160

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>	Water Level	Monitoring Well Detail (DOE#: BCP184)
							Ground Elevation (ft): <u>85.04</u>		
							Drilled By: <u>Cascade Drilling Inc.</u>		
	35					SP	Dark gray, fine to medium SAND (medium dense, wet)		
	40	a1	19		SP-SM	Dark gray, fine SAND with silt (medium dense, wet)			
	45	a1	51		SP	Dark gray, fine to medium SAND (dense, wet)			
	50	a1	25		SM GP	Brown and gray mottled, silty, fine SAND (dense, wet)			
55	a1	50/4"		SP	Brown, fine to coarse GRAVEL with sand (dense, wet)				
60	a1	7			SP	Brown, very gravelly, fine to coarse SAND (medium dense, wet)			
						- grades with trace gravel and loose			2-inch diameter, Schedule 40, PVC well casing
									2/12 Monterey Beach sand pack
									2-inch diameter, Schedule 40, PVC screen (0.010-inch slot size)
									Threaded end cap

Boring Completed 02/25/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 02/25/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 84.60 ft.  
Total Depth of Monitoring Well = 60.0 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. DOE Unique Well Number: BCP184

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW160

Figure  
C-129  
(2 of 2)

# AGW161

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>	Water Level
							Ground Elevation (ft): <u>82.06</u>	
0							Drilled By: <u>Cascade Drilling Inc.</u>	8 in
							Not Sampled - Air vacuumed for utilities	Flush-mounted monument with locking cap
5								
10	a2	a2	36		SM		Brownish-gray, silty, fine SAND (medium dense, wet)	ATD
							- grades dark gray and dense	
15	a2	a2	50/4"		SP-SM		Dark gray, fine SAND with silt (medium dense, wet)	2-inch diameter, Schedule 40, PVC well casing
							- grades with trace fine gravel	Bentonite chips
20	a2	a2	37		SP		Dark gray, fine to medium SAND with trace fine gravel (dense, wet)	
25	a2	a2	41		SP		<b>Groundwater sample AGW161-20100302 collected at 25 ft BGS</b>	
30	a2	a2	50/5"		SM		Gray, very silty, fine SAND with trace gravel (dense, wet)	
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. DOE Unique Well Number: BCP186

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

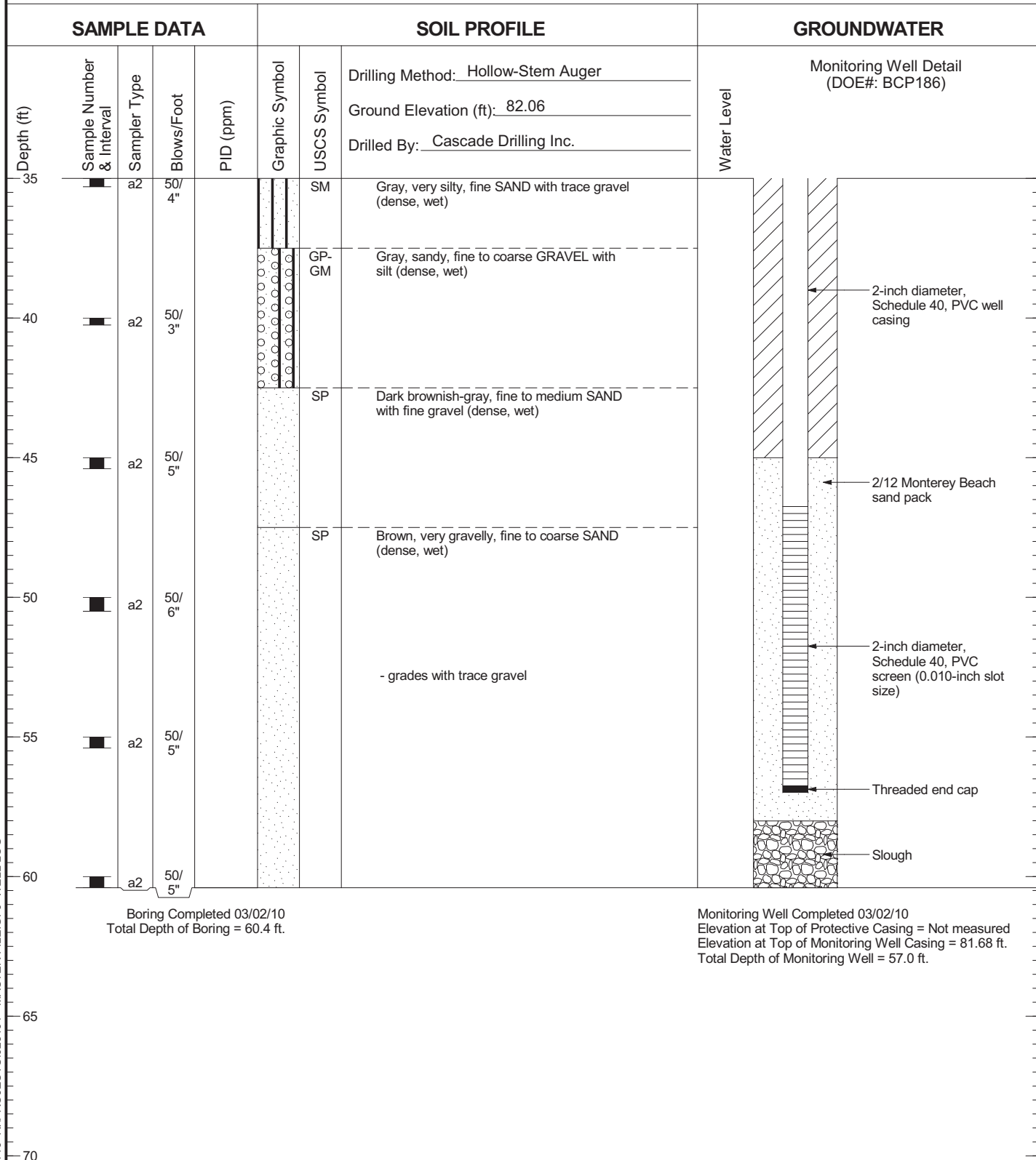


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW161

Figure  
C-130  
(1 of 2)

# AGW161



Boring Completed 03/02/10  
Total Depth of Boring = 60.4 ft.

Monitoring Well Completed 03/02/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 81.68 ft.  
Total Depth of Monitoring Well = 57.0 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. DOE Unique Well Number: BCP186

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



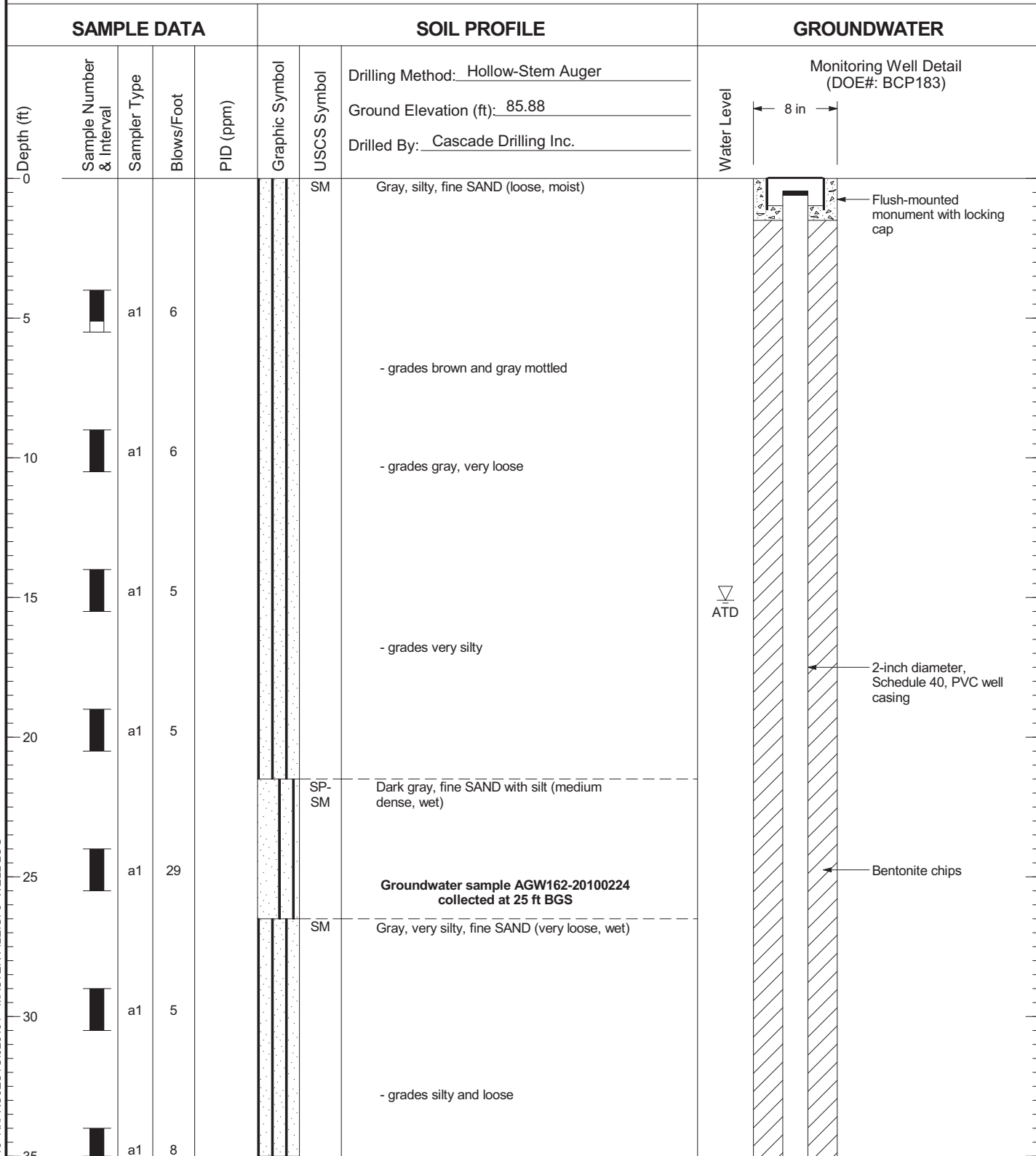
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW161

Figure  
C-130  
(2 of 2)



# AGW162



- 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. DOE Unique Well Number: BCP183

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

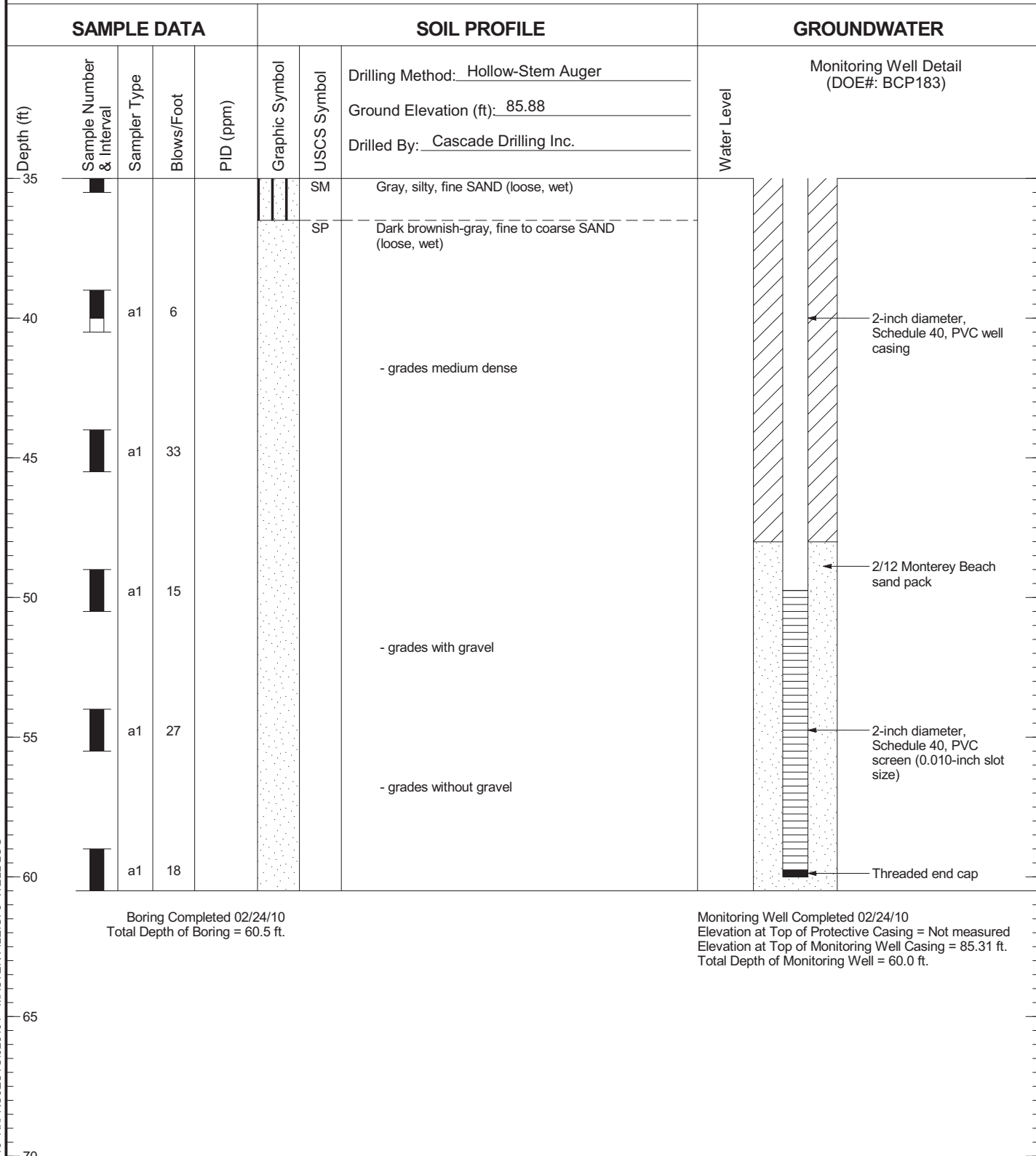


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Auburn, Washington

Log of Monitoring Well AGW162

Figure  
C-131  
(1 of 2)

# AGW162



Boring Completed 02/24/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 02/24/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 85.31 ft.  
Total Depth of Monitoring Well = 60.0 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. DOE Unique Well Number: BCP183

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

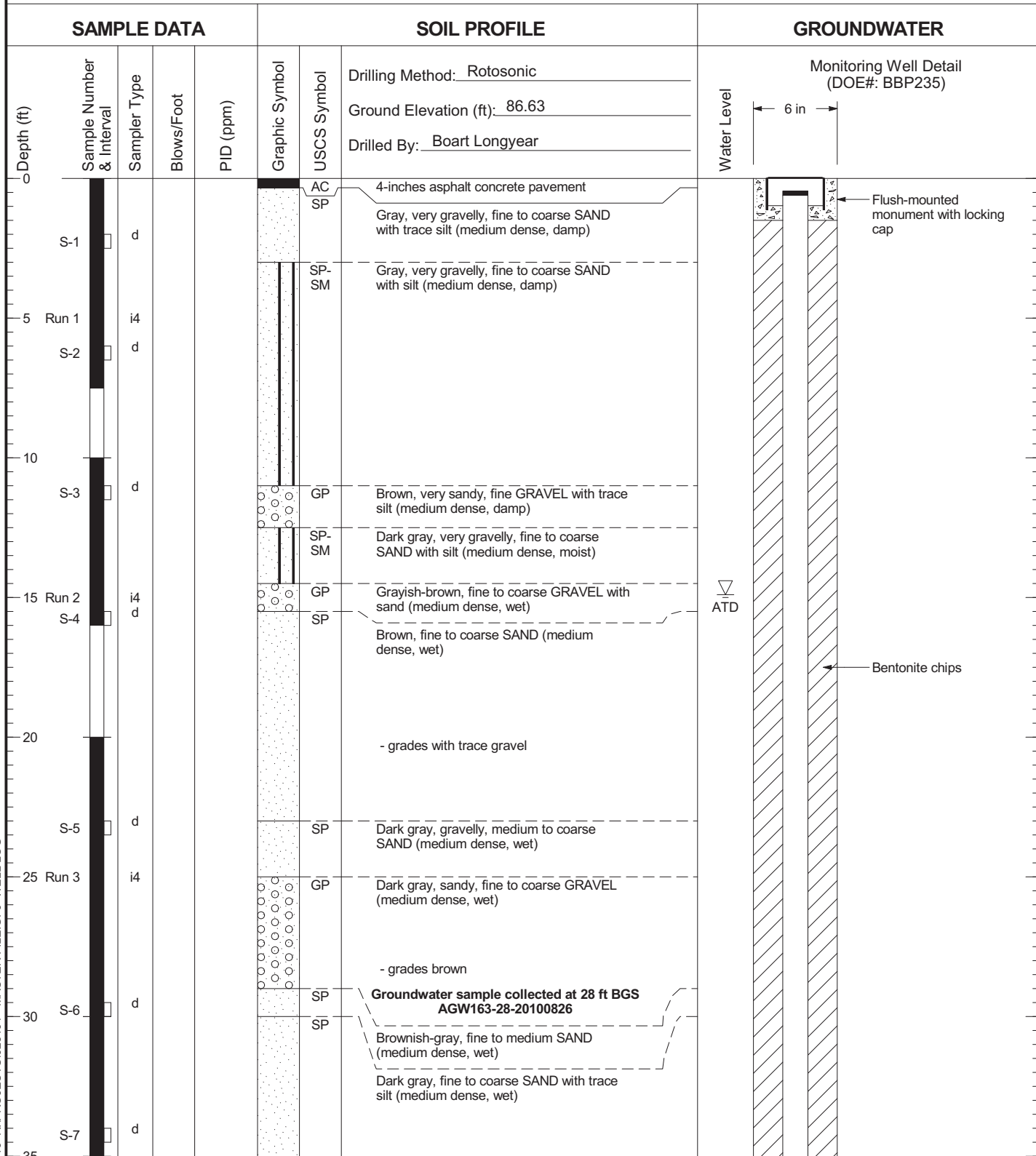


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW162

Figure  
C-131  
(2 of 2)

# AGW163



- 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. DOE Unique Well Number: BBP235

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW163

Figure  
C-132  
(1 of 2)

# AGW163

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BBP235)
							Ground Elevation (ft): <u>86.63</u>		
							Drilled By: <u>Boart Longyear</u>		
35					SP		- with trace gravel Dark gray, fine to coarse SAND with trace silt (medium dense, wet)		
S-8	d				GP		- grades gravelly		
40	Run 4	i4			SM		Brown, fine to coarse GRAVEL with trace sand (dense, wet)		
S-9	d				SP-SM		Gray, very silty, fine SAND (medium dense, wet)		Bentonite chips
45					SM		Gray, very silty, fine SAND (medium dense, wet)		10/20 Colorado sand pack
50					GM		Brownish-gray, silty, sandy, fine to coarse GRAVEL (dense, wet)		2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
S-10	d				GM		- grades with iron oxide staining		Threaded end cap
55	Run 5	i4			SP		Brown, fine to coarse SAND with gravel (dense, wet)		Slough at bottom of hole
S-11	d				SM		Brown, silty, gravelly, fine to coarse SAND (dense, wet)		
60									

Boring Completed 08/26/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 08/26/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.40 ft.  
Total Depth of Monitoring Well = 57.4 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. DOE Unique Well Number: BBP235

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

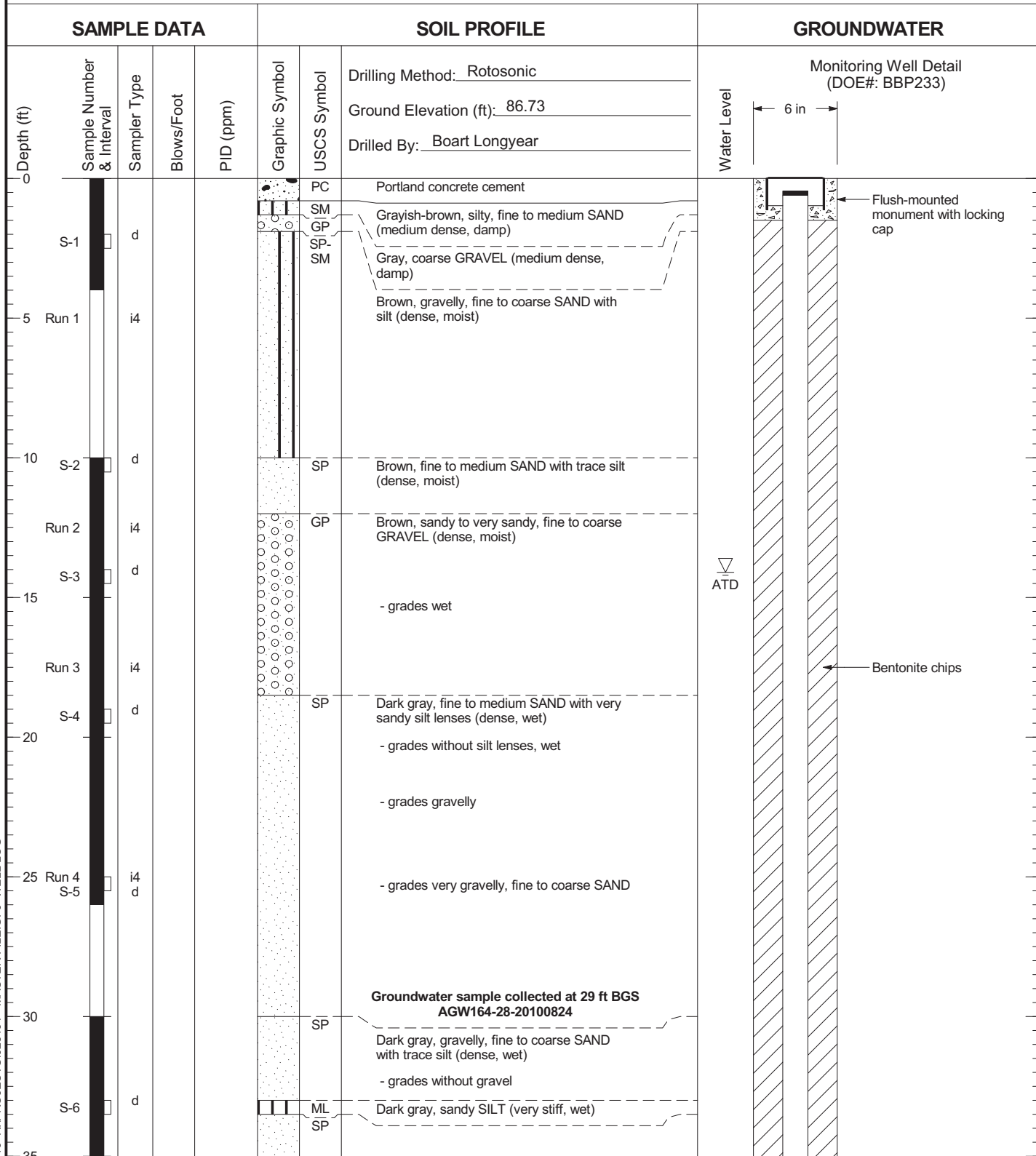


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW163

Figure  
C-132  
(2 of 2)

# AGW164



- 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. DOE Unique Well Number: BBP233

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

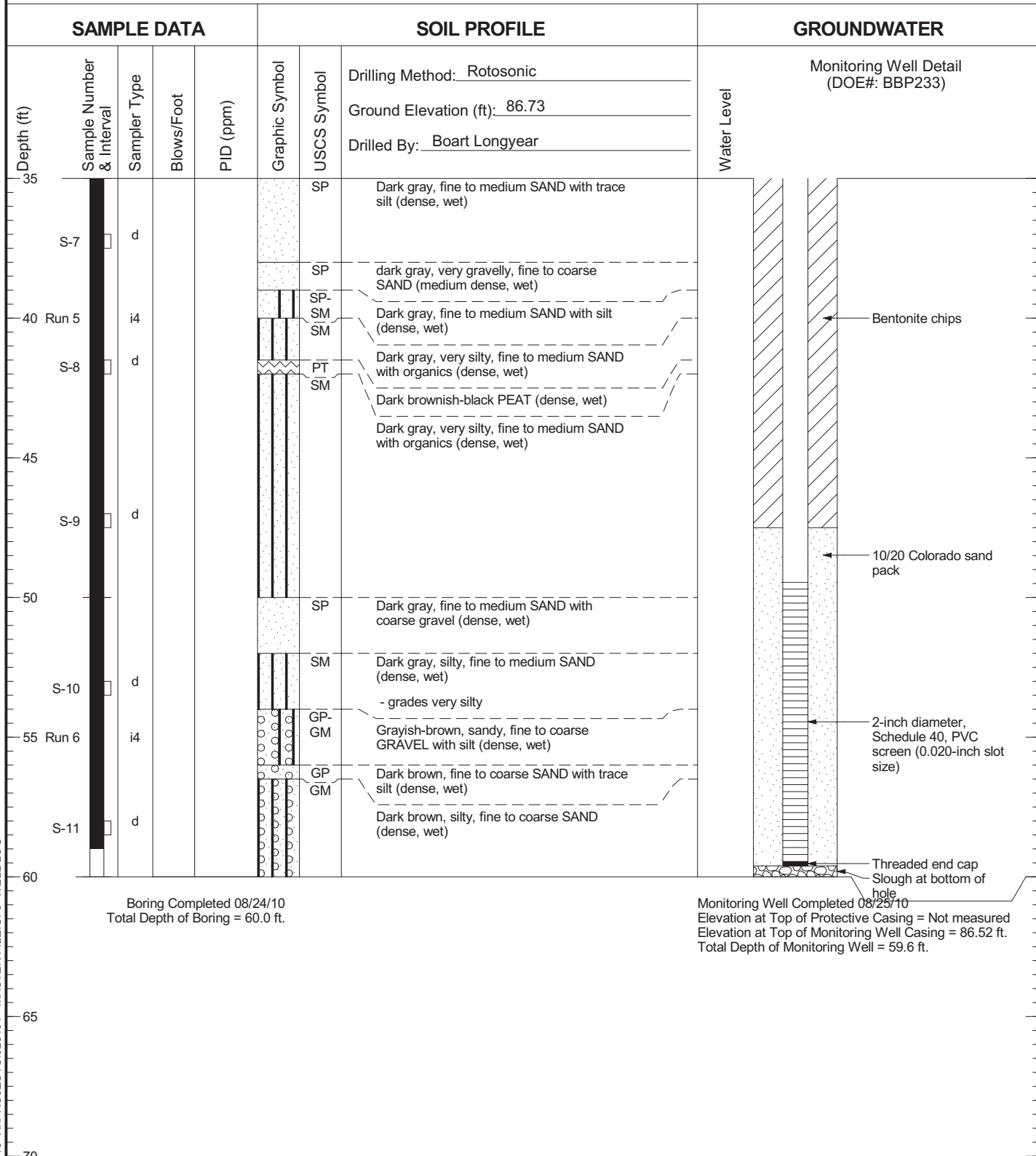


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW164

Figure  
C-133  
(1 of 2)

# AGW164



Boring Completed 08/24/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 08/25/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.52 ft.  
Total Depth of Monitoring Well = 59.6 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. DOE Unique Well Number: BBP233

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

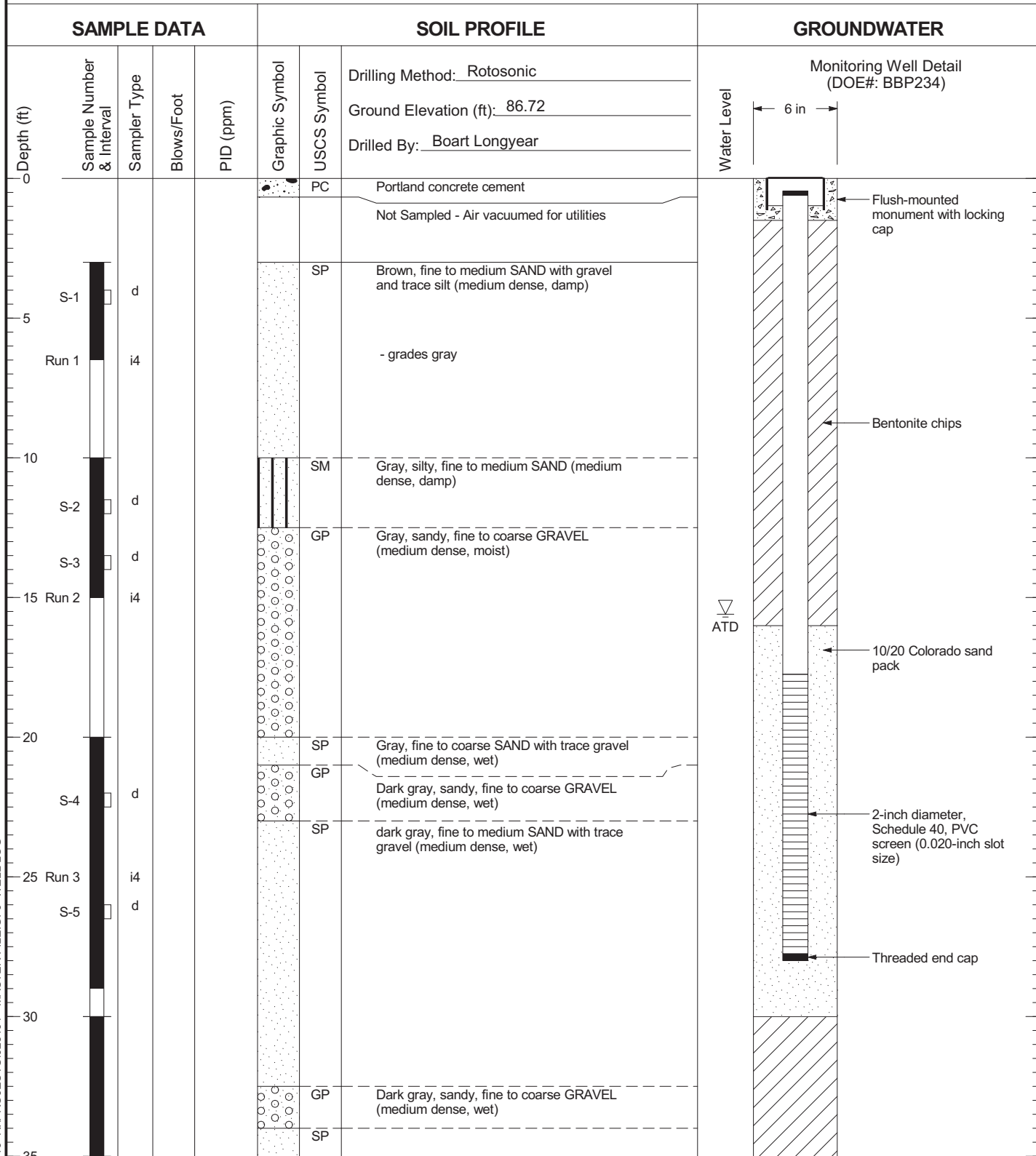


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW164

Figure  
C-133  
(2 of 2)

# AGW165



- 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. DOE Unique Well Number: BBP234

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

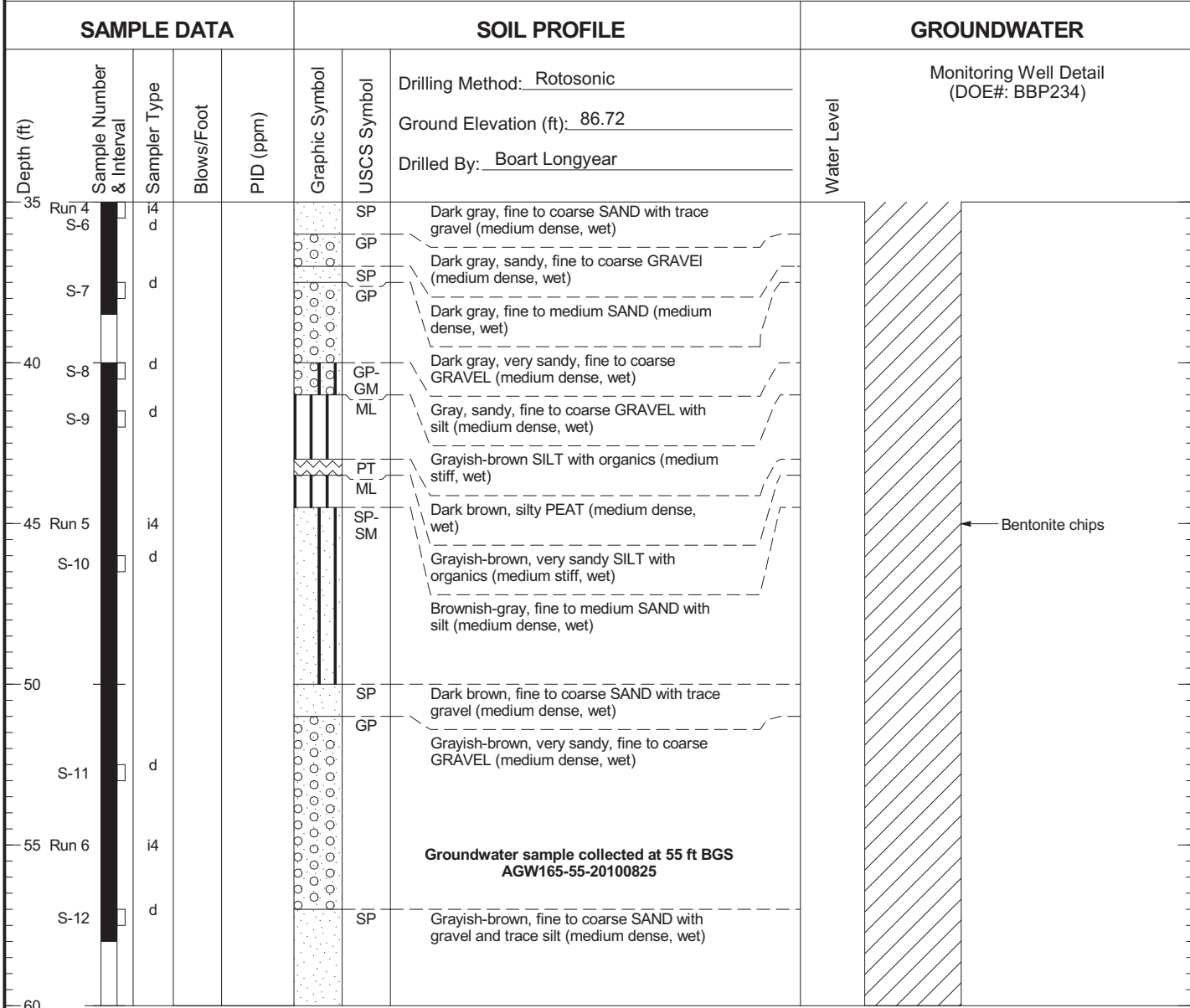


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW165

Figure  
C-134  
(1 of 2)

# AGW165



Boring Completed 08/25/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 08/25/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.50 ft.  
Total Depth of Monitoring Well = 28.0 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. DOE Unique Well Number: BBP234

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



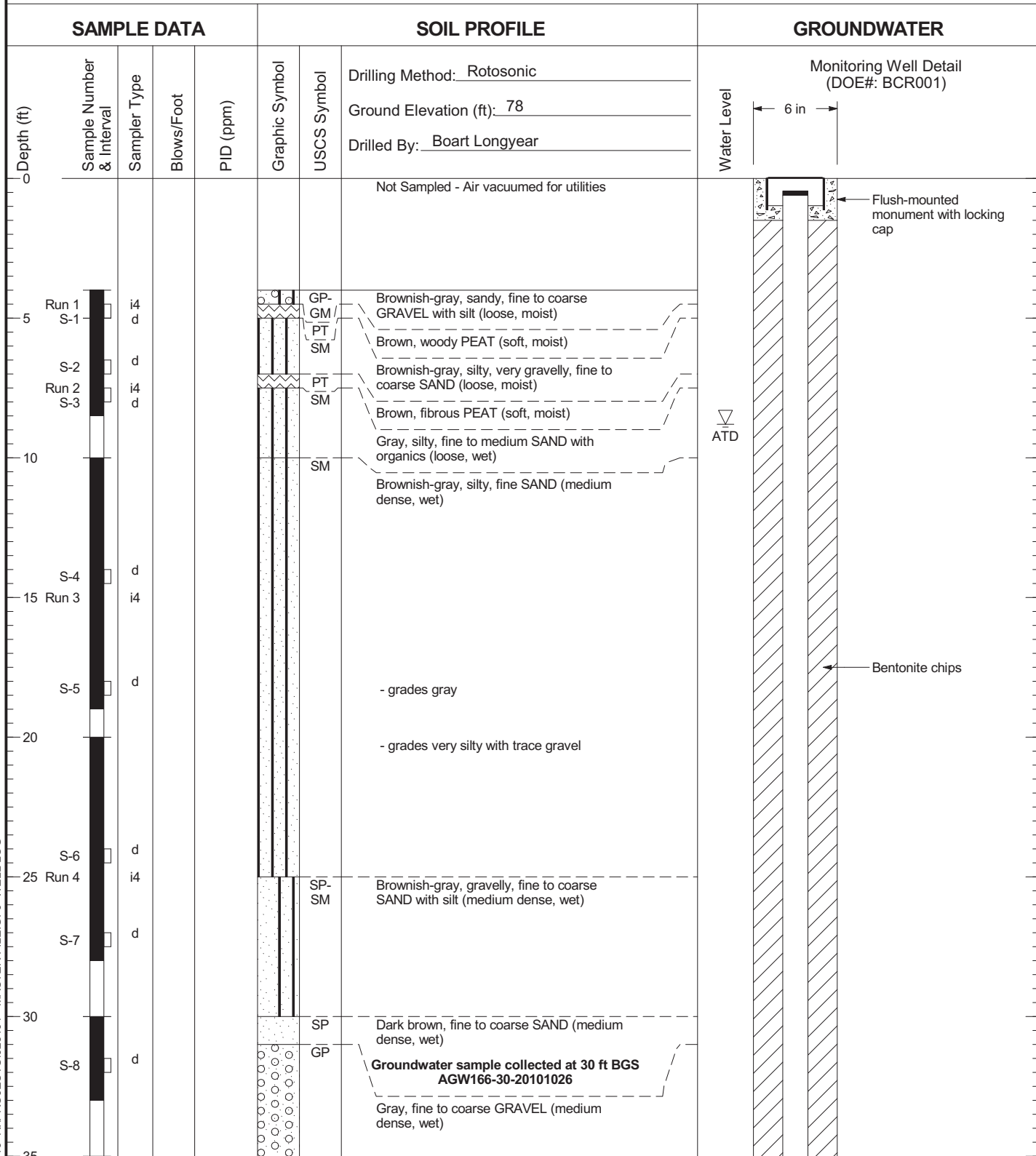
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW165

Figure  
C-134  
(2 of 2)



# AGW166



- 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. DOE Unique Well Number: BCR001

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

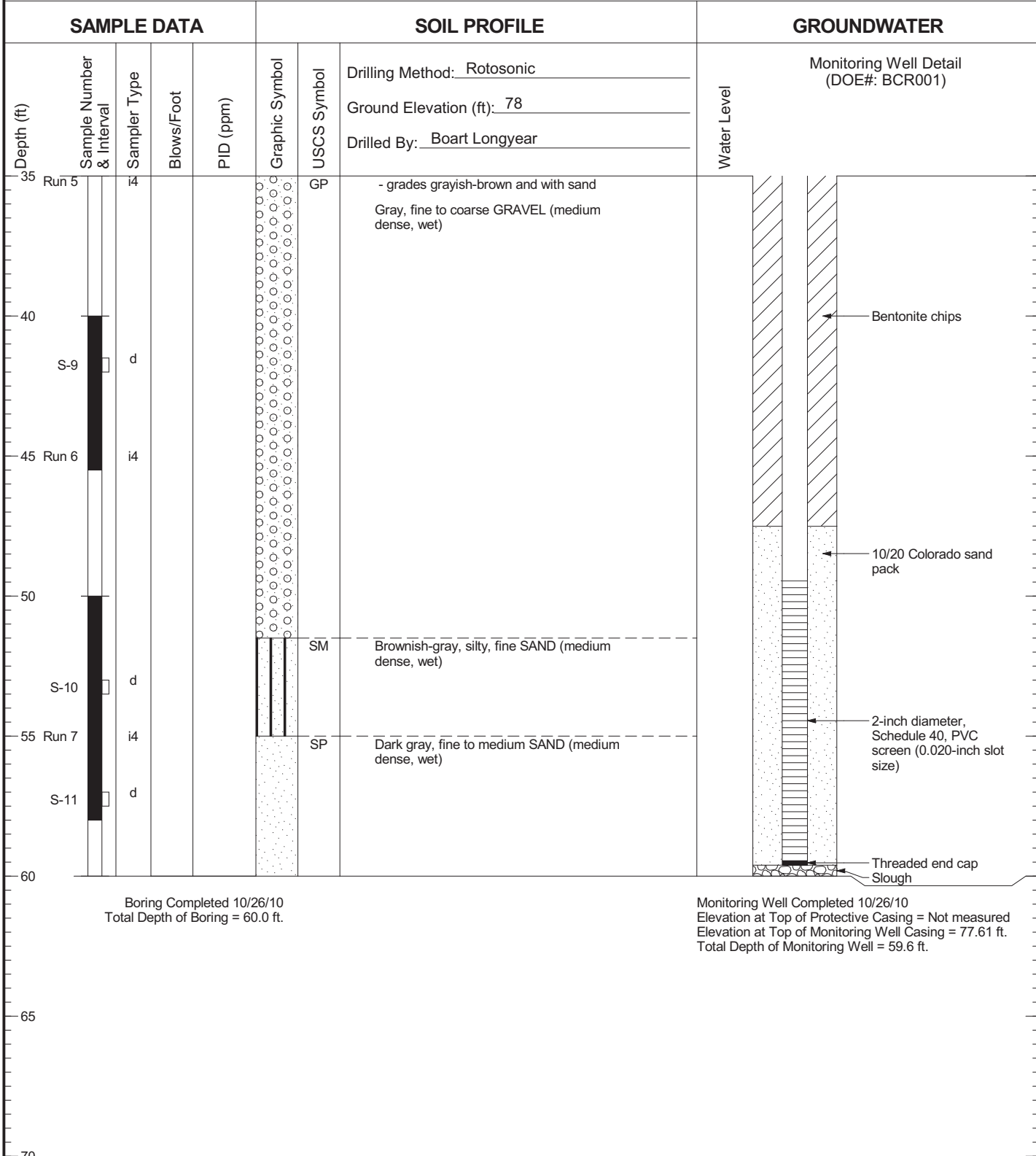


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Auburn, Washington

Log of Monitoring Well AGW166

Figure  
C-135  
(1 of 2)

# AGW166



Boring Completed 10/26/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 10/26/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.61 ft.  
Total Depth of Monitoring Well = 59.6 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. DOE Unique Well Number: BCR001

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

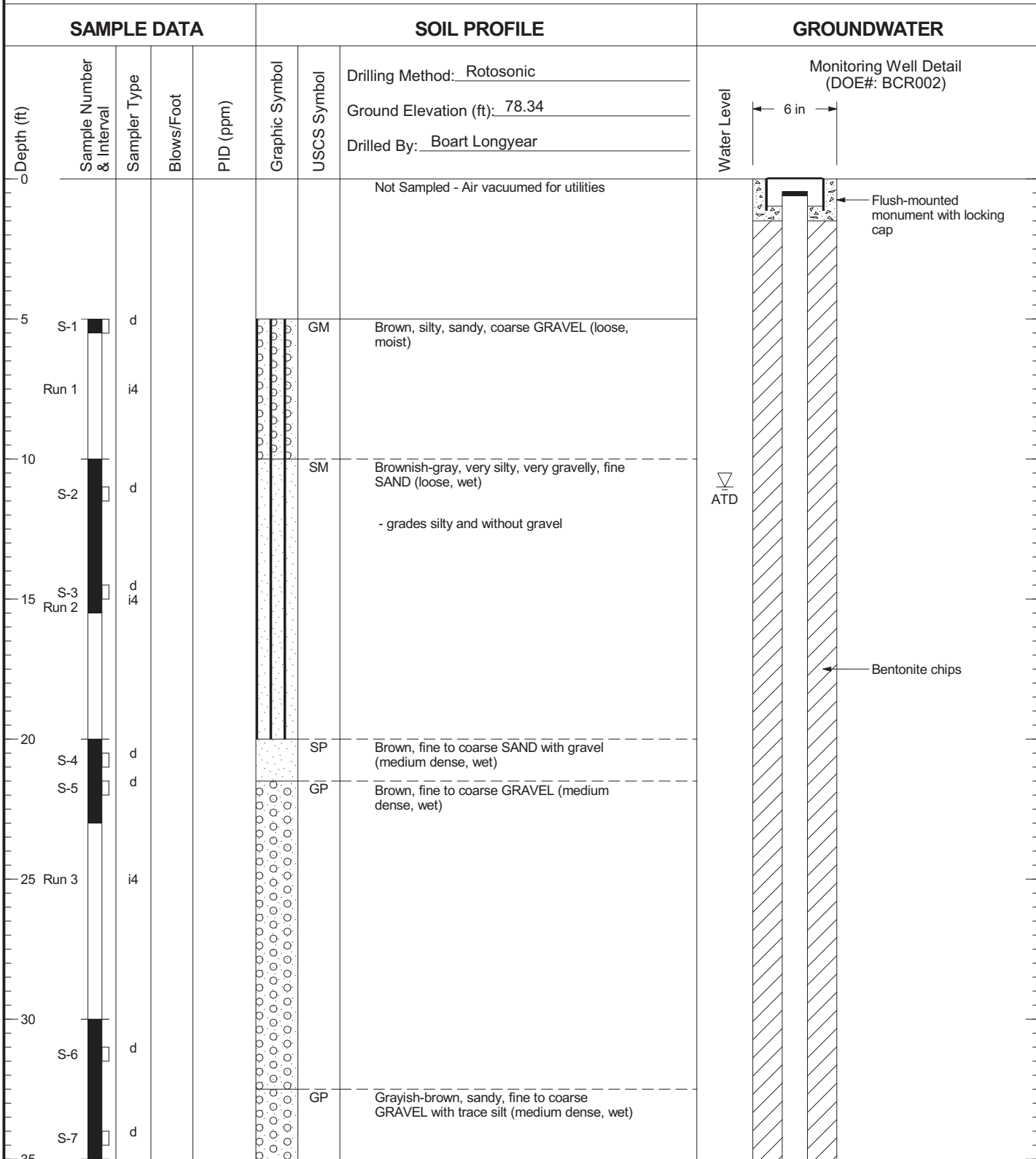


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW166

Figure  
C-135  
(2 of 2)

# AGW167



- 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. DOE Unique Well Number: BCR002

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

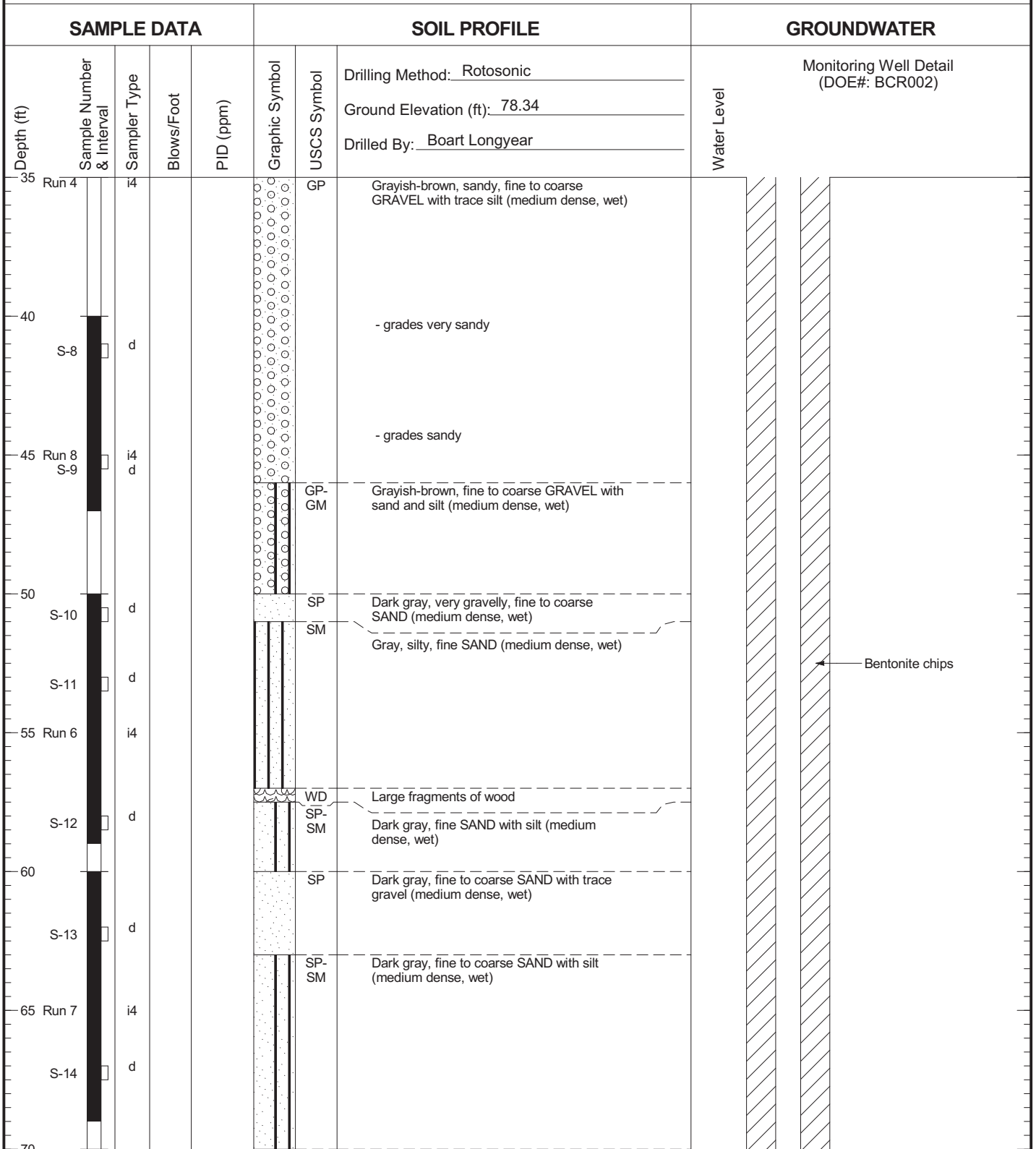


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW167

Figure  
C-136  
(1 of 3)

# AGW167



- 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. DOE Unique Well Number: BCR002

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

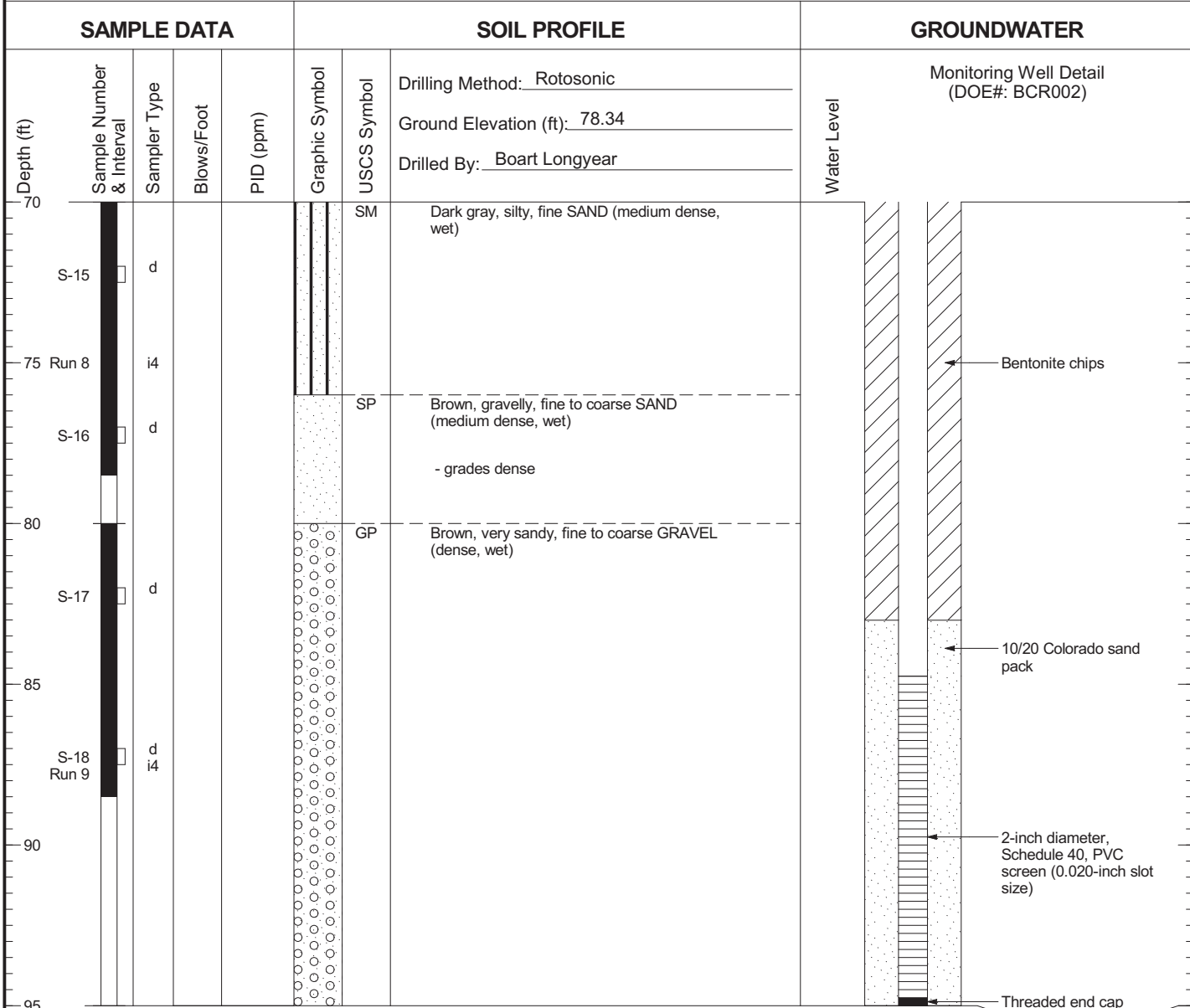


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW167

Figure  
C-136  
(2 of 3)

# AGW167



Boring Completed 10/27/10  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/27/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.11 ft.  
Total Depth of Monitoring Well = 95.0 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. DOE Unique Well Number: BCR002

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

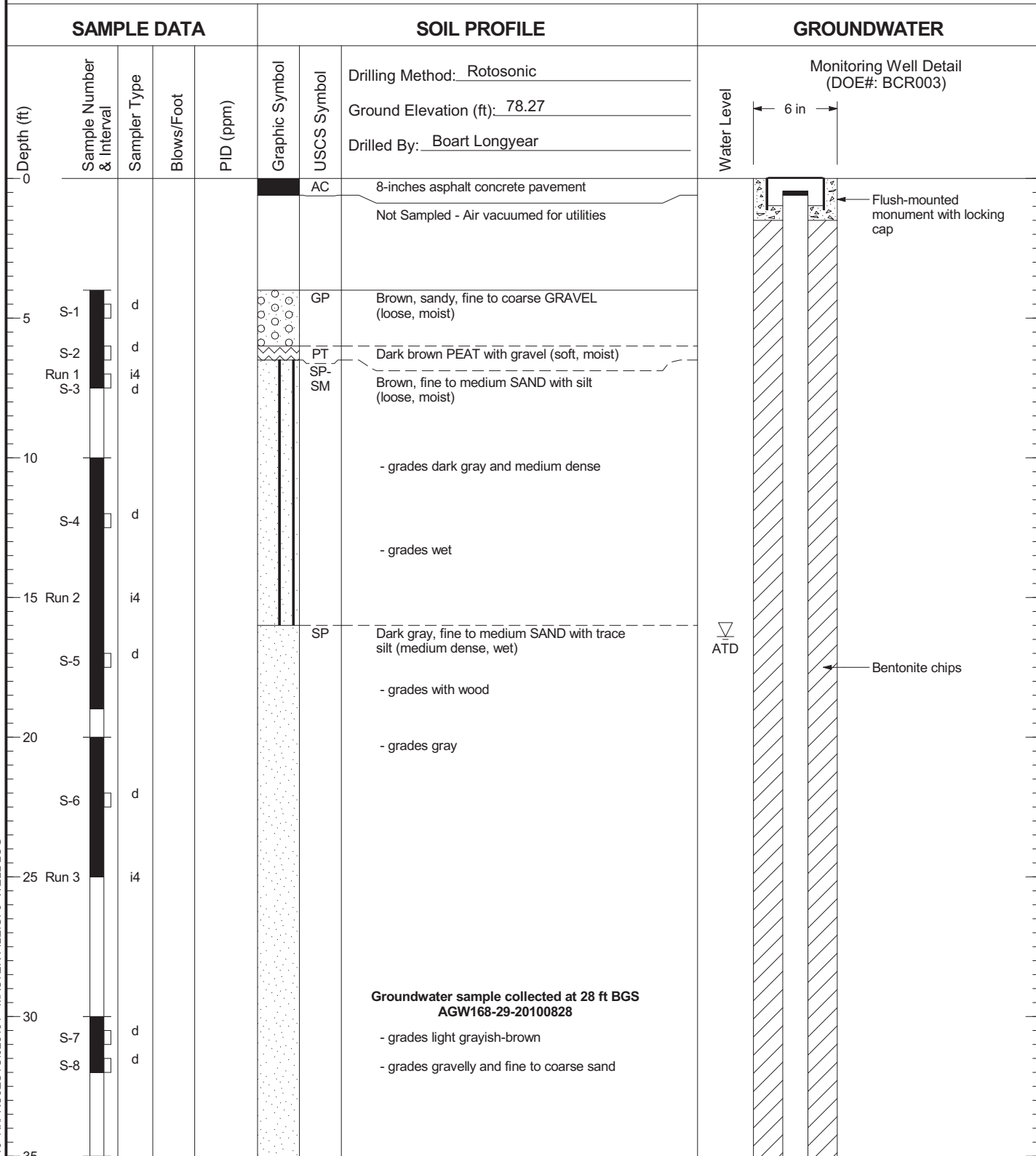


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW167

Figure  
C-136  
(3 of 3)

# AGW168



- 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. DOE Unique Well Number: BCR003

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

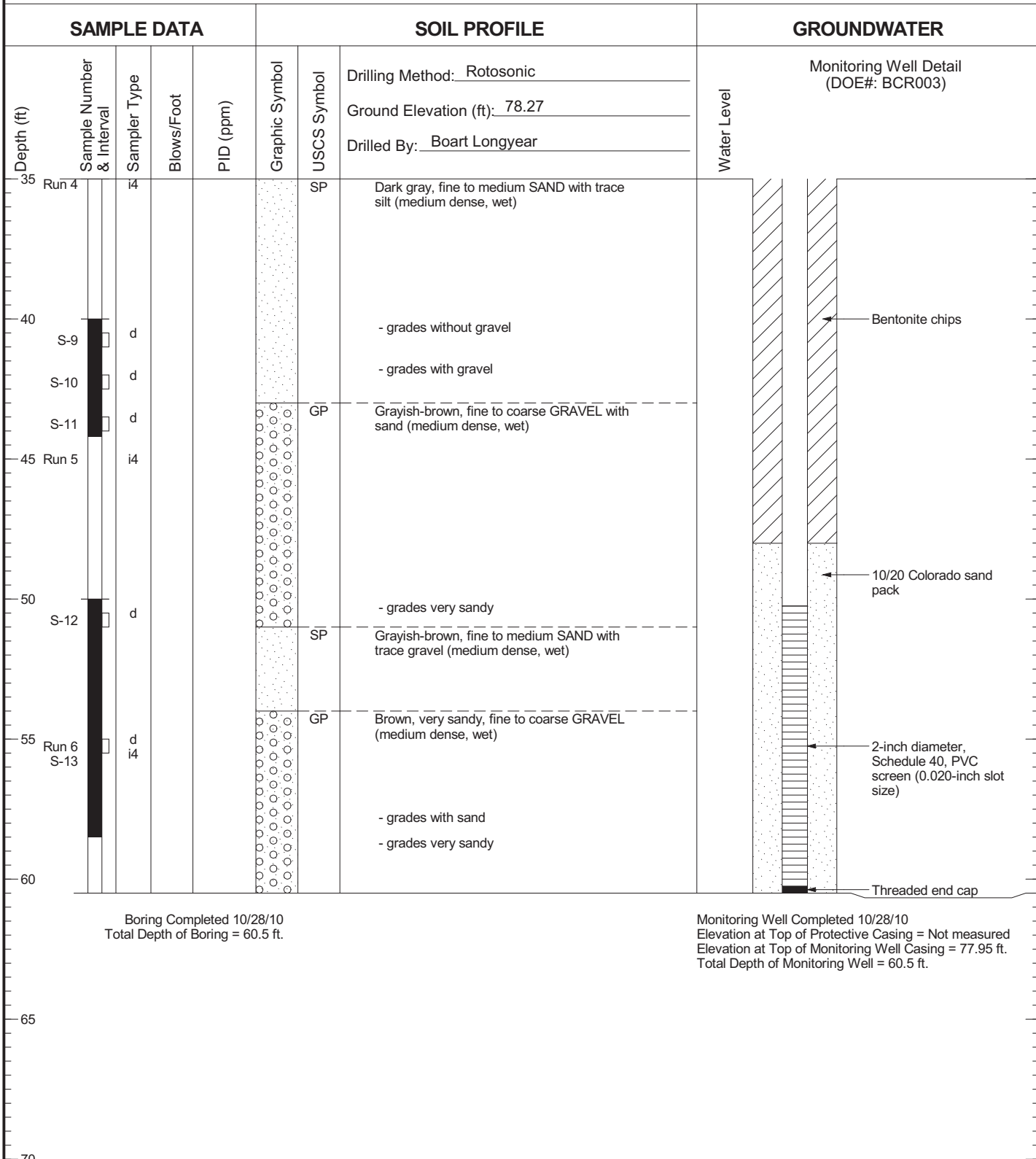


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Log of Monitoring Well AGW168

Figure  
C-137  
(1 of 2)

# AGW168



Boring Completed 10/28/10  
Total Depth of Boring = 60.5 ft.

Monitoring Well Completed 10/28/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.95 ft.  
Total Depth of Monitoring Well = 60.5 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.
  4. DOE Unique Well Number: BCR003

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

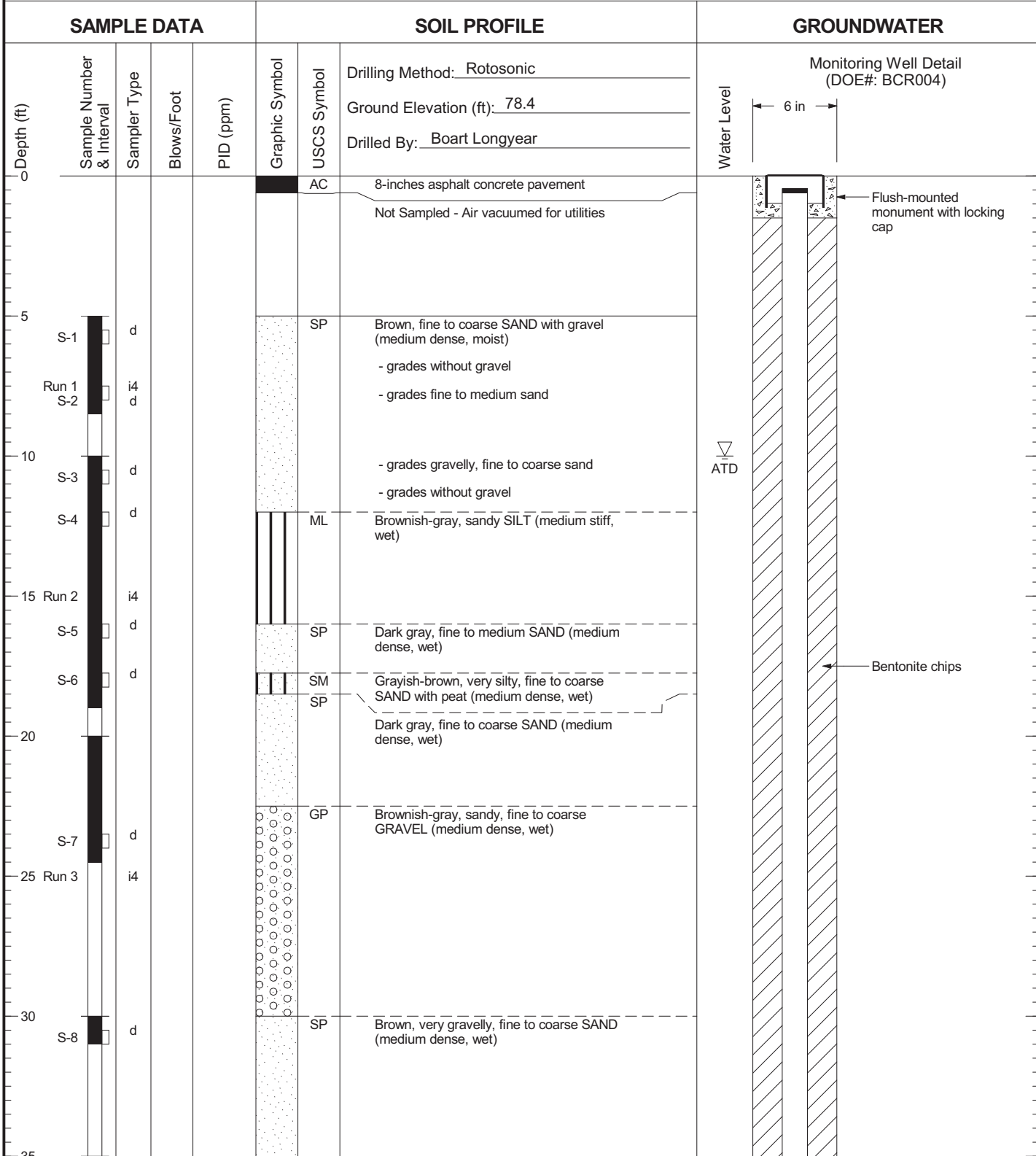


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW168

Figure  
C-137  
(2 of 2)

# AGW169



- 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. DOE Unique Well Number: BCR004

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Log of Monitoring Well AGW169

Figure  
C-138  
(1 of 3)



# AGW169

SAMPLE DATA			SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BCR004)
							Ground Elevation (ft): <u>78.4</u>		
							Drilled By: <u>Boart Longyear</u>		
35	Run 4	i4				SP	Brown, very gravelly, fine to coarse SAND (medium dense, wet)		
40	S-9	d					- grades medium to coarse sand and without gravel		
	S-10	d					- grades gravelly		
45	Run 5	i4							
50									
	S-11	d				SP	Gray, fine to medium SAND (medium dense, wet)		
55	Run 6	i4					- grades gravelly, fine to coarse sand		
	S-12	d							
	S-13	d				GP	Brown, fine to coarse GRAVEL with sand (medium dense, wet)		
60									
	S-14	d				SP	Brown, gravelly, fine to coarse SAND (medium dense, wet)		
65	Run 7	i4					- grades with gravel		
	S-15	d							
	S-16	d				SM	Gray, silty, fine SAND (medium dense, wet)		
	S-17	d				SP-SM	Gray, fine SAND with silt (medium dense, wet)		
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. DOE Unique Well Number: BCR004

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
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Auburn, Washington

Log of Monitoring Well AGW169

Figure  
C-138  
(2 of 3)

# AGW169

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>78.4</u> Drilled By: <u>Boart Longyear</u>	Water Level	Monitoring Well Detail (DOE#: BCR004)
70	S-18	d			[Symbol]	GP	Brown, fine to coarse GRAVEL with sand (medium dense, wet)		
	S-19	d			[Symbol]	SP	Brown, fine to medium SAND with gravel and trace silt (medium dense, wet)		
	S-20	d			[Symbol]	SP	- grades grayish-brown		
	S-21	d			[Symbol]	SP	Grayish-brown, gravelly, medium to coarse SAND (medium dense, wet)		
75	Run 8	i4			[Symbol]		Grayish-brown, fine to medium SAND with gravel (medium dense, wet)		
	S-22	d			[Symbol]		- grades gravelly		
	S-23	d			[Symbol]	GP	Grayish-brown, sandy, fine to coarse GRAVEL (medium dense, wet)		Bentonite chips
80					[Symbol]				
	Run 9	i4			[Symbol]		Grayish-brown, fine to coarse SAND with trace gravel (medium dense, wet)		10/20 Colorado sand pack
85					[Symbol]				
	S-24	d			[Symbol]	SP	Brown, fine to medium SAND with gravel (medium dense, wet)		2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
90					[Symbol]				
	S-25	d			[Symbol]	SP	Brown, fine to medium SAND with gravel (medium dense, wet)		Threaded end cap
95					[Symbol]				Slough

Boring Completed 10/29/10  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/29/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.12 ft.  
Total Depth of Monitoring Well = 93.8 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. DOE Unique Well Number: BCR004

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

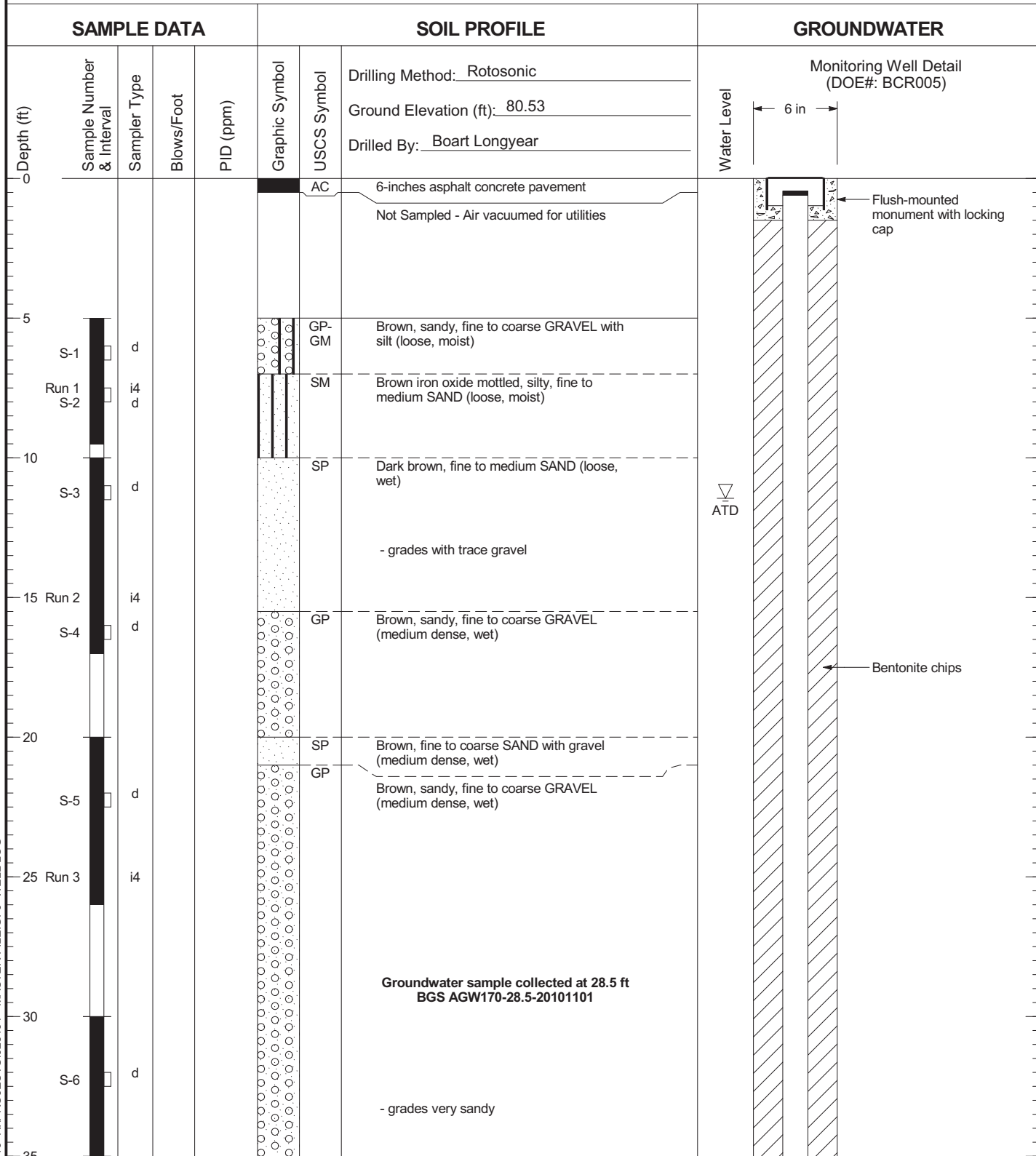


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW169

Figure  
C-138  
(3 of 3)

# AGW170



- 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. DOE Unique Well Number: BCR005

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW170

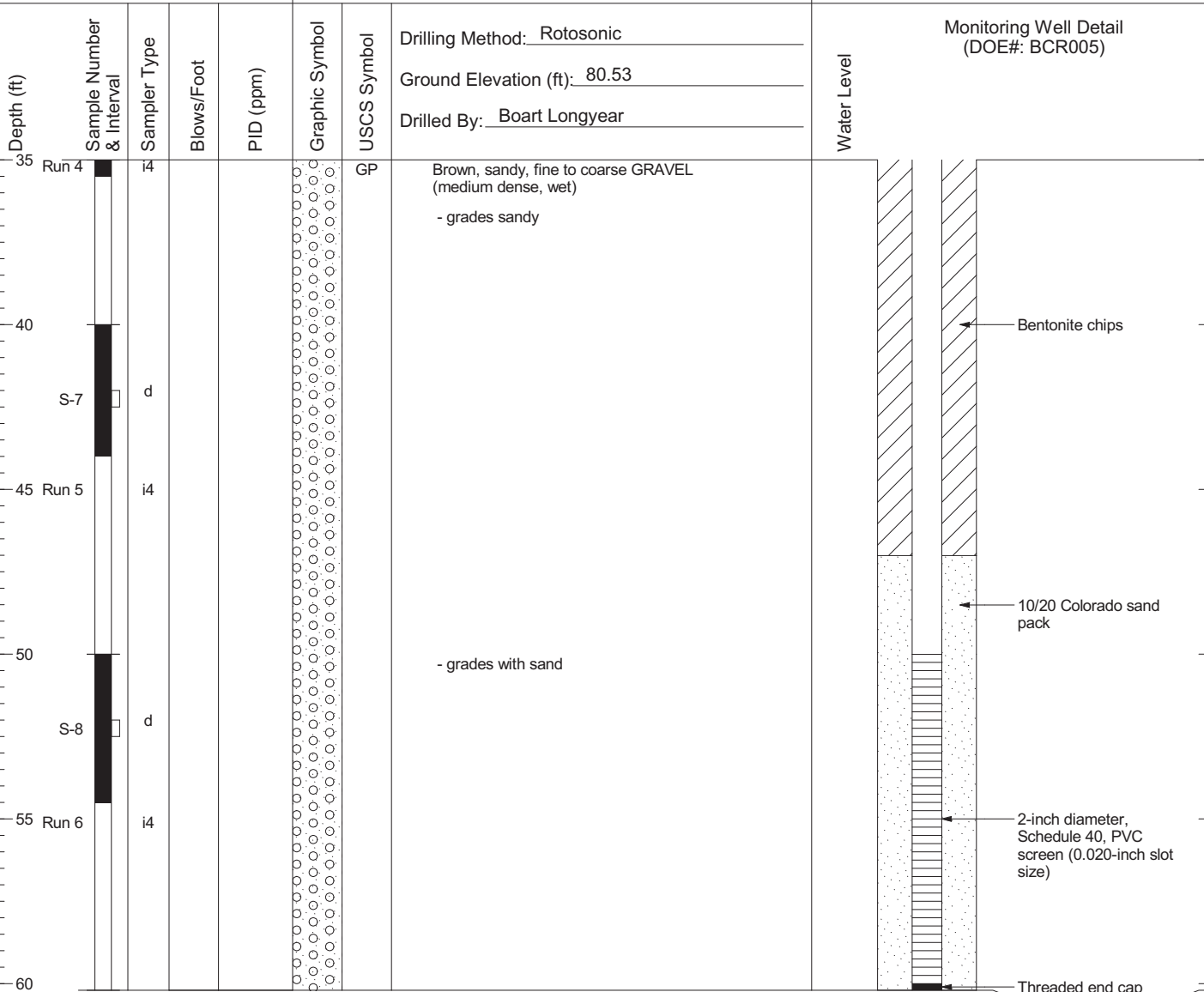
Figure  
C-139  
(1 of 2)

# AGW170

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 11/01/10  
Total Depth of Boring = 60.2 ft.

Monitoring Well Completed 11/01/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 80.21 ft.  
Total Depth of Monitoring Well = 60.2 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. DOE Unique Well Number: BCR005

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

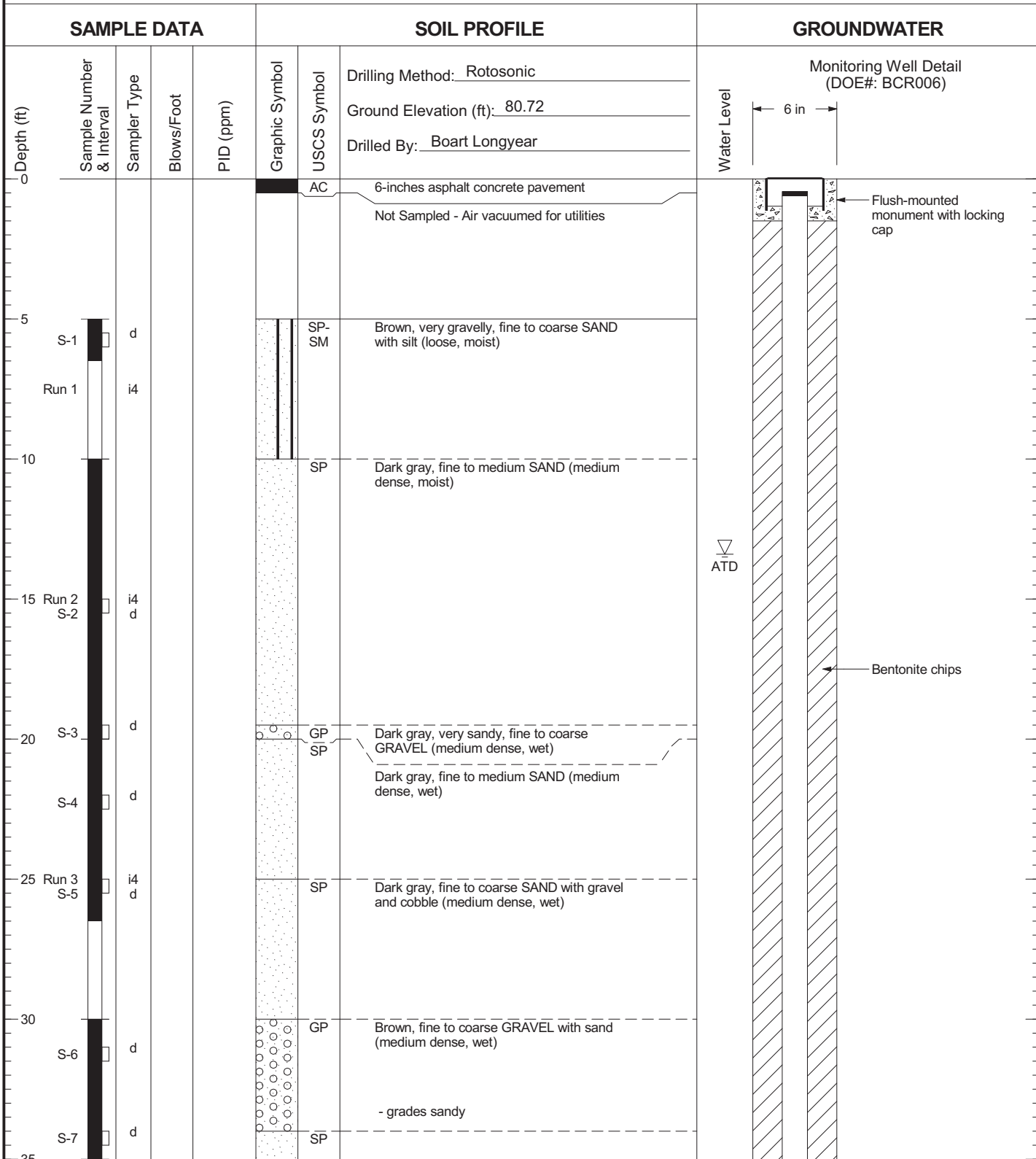


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW170

Figure  
C-139  
(2 of 2)

# AGW171


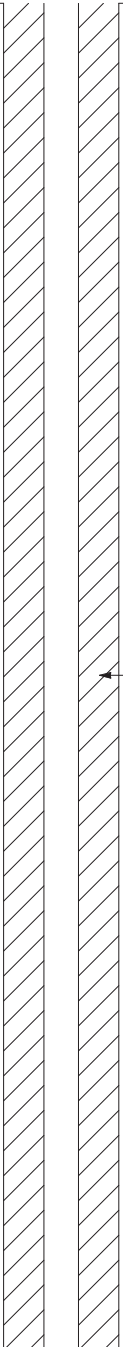





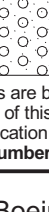


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCR006

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW171

SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Monitoring Well Detail (DOE#: BCR006)
							Ground Elevation (ft): <u>80.72</u>	
							Drilled By: <u>Boart Longyear</u>	Water Level
35	Run 4	i4				SP	Dark gray, very gravelly, fine to coarse SAND (medium dense, wet)	
40	S-8	d				GP	Grayish-brown, very sandy, fine to coarse GRAVEL (medium dense, wet)	
45	Run 5 S-9	i4 d					- grades brown and with sand	
50	S-10	d					- grades dark brown	
55	Run 6 S-11	i4 d					- grades very sandy	
60	S-12	d					- grades sandy	
65	Run 7 S-13	i4 d					- grades with trace sand	
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. DOE Unique Well Number: BCR006

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

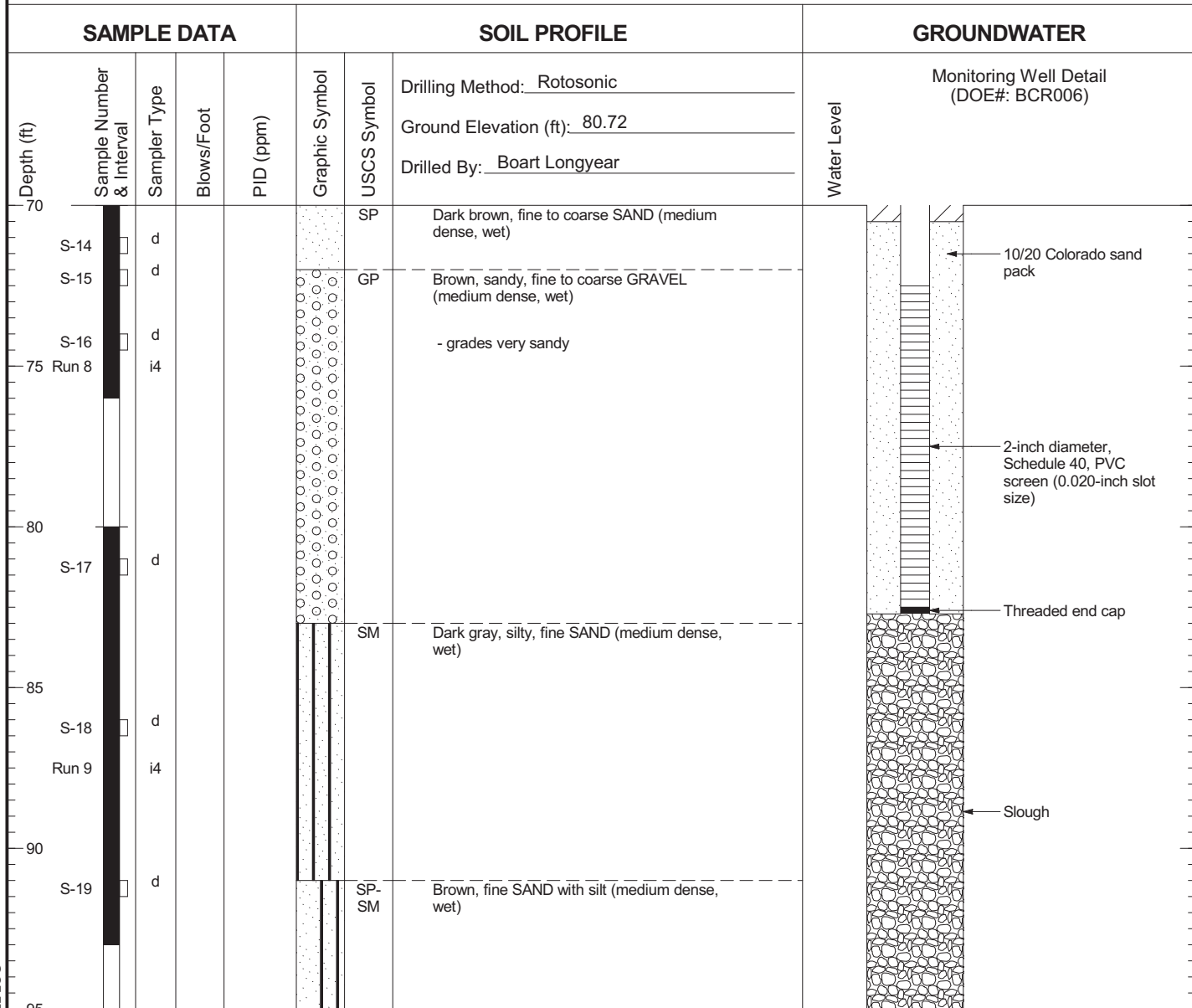


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW171

Figure  
C-140  
(2 of 3)

# AGW171



Boring Completed 11/02/10  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 11/02/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 80.20 ft.  
Total Depth of Monitoring Well = 82.7 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. DOE Unique Well Number: BCR006

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

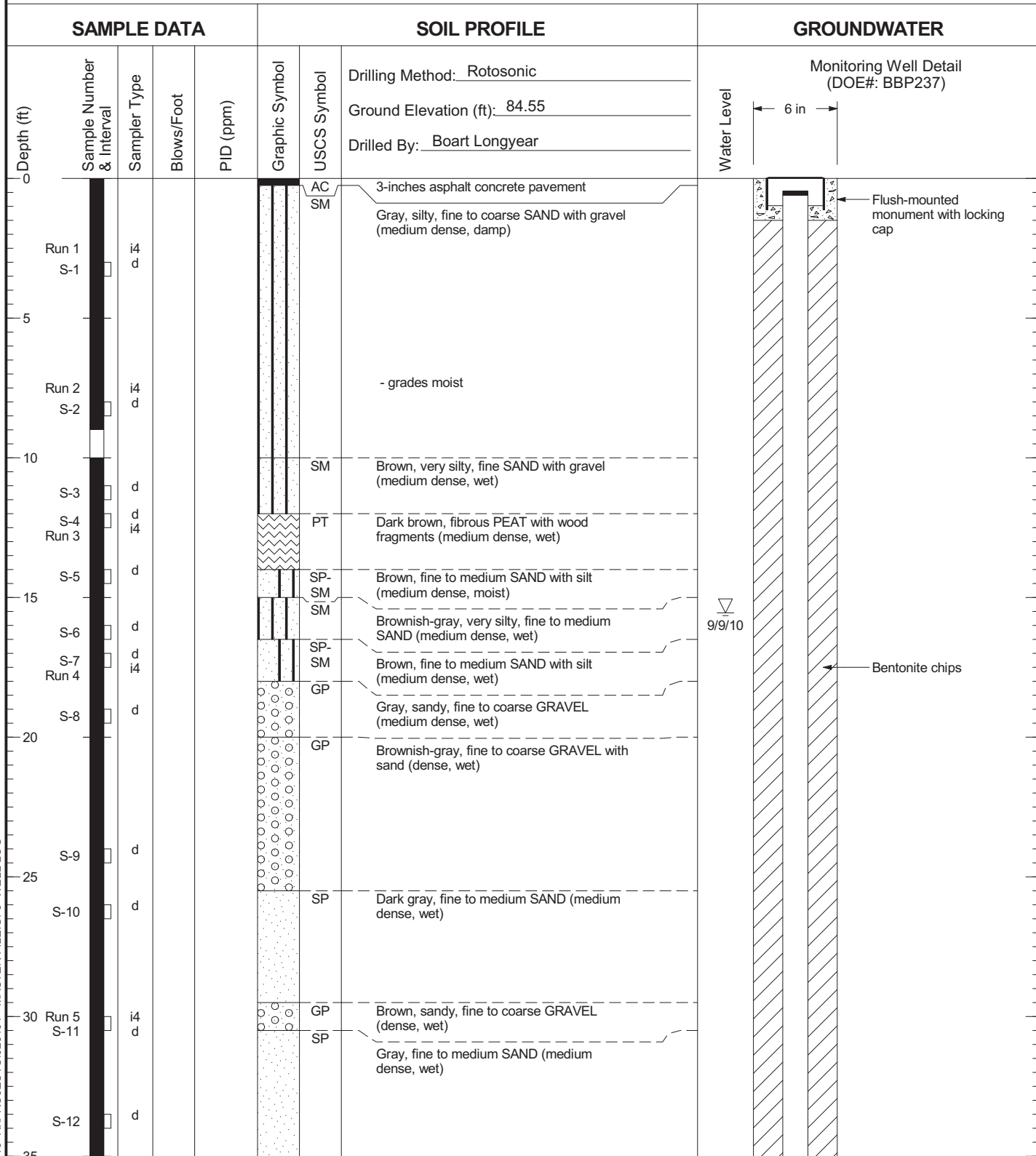


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW171

Figure  
C-140  
(3 of 3)

# AGW172



- 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. DOE Unique Well Number: BBP237

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



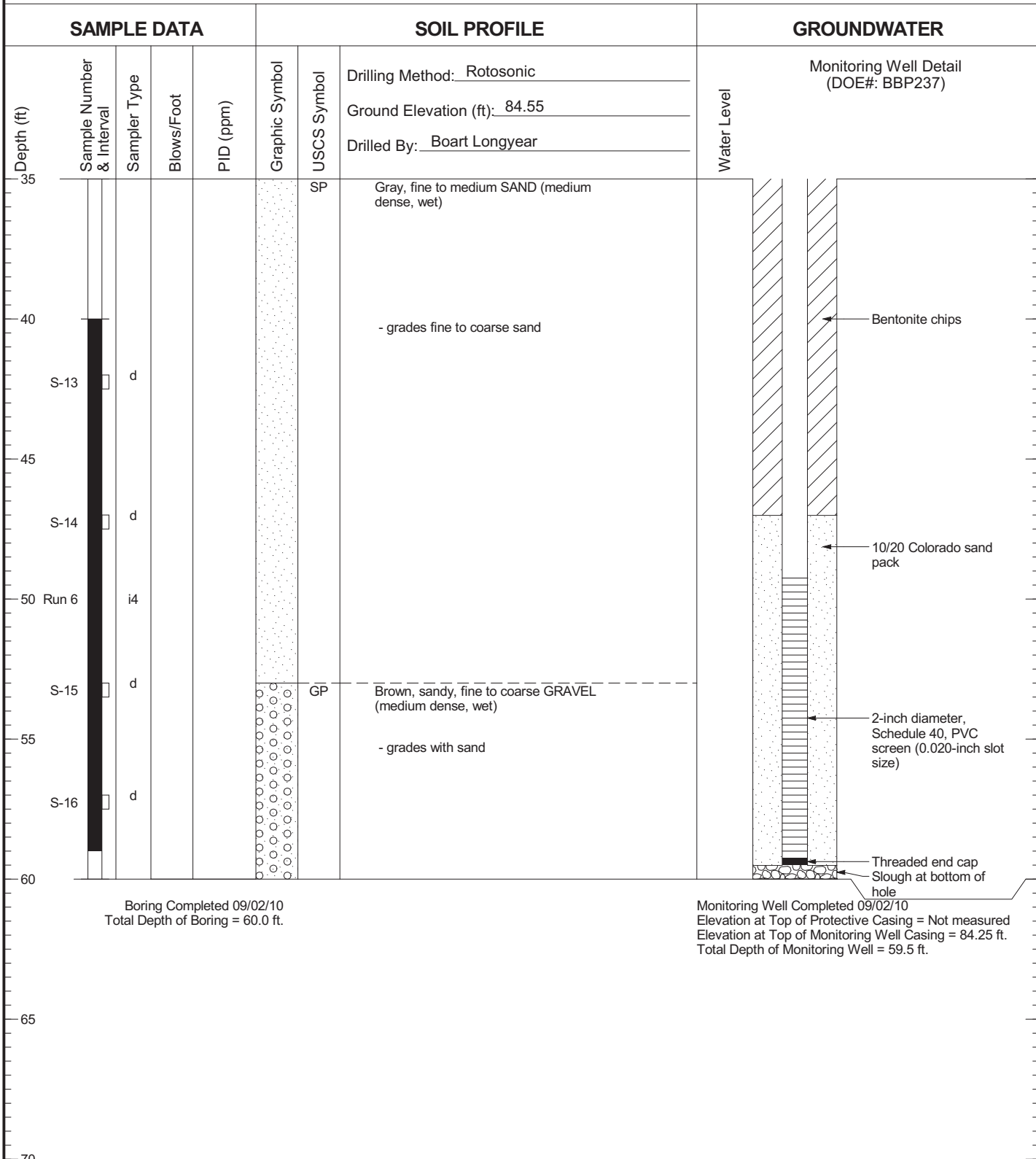
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW172

Figure  
C-141  
(1 of 2)



# AGW172



Boring Completed 09/02/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 09/02/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 84.25 ft.  
Total Depth of Monitoring Well = 59.5 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.
  4. DOE Unique Well Number: BBP237

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

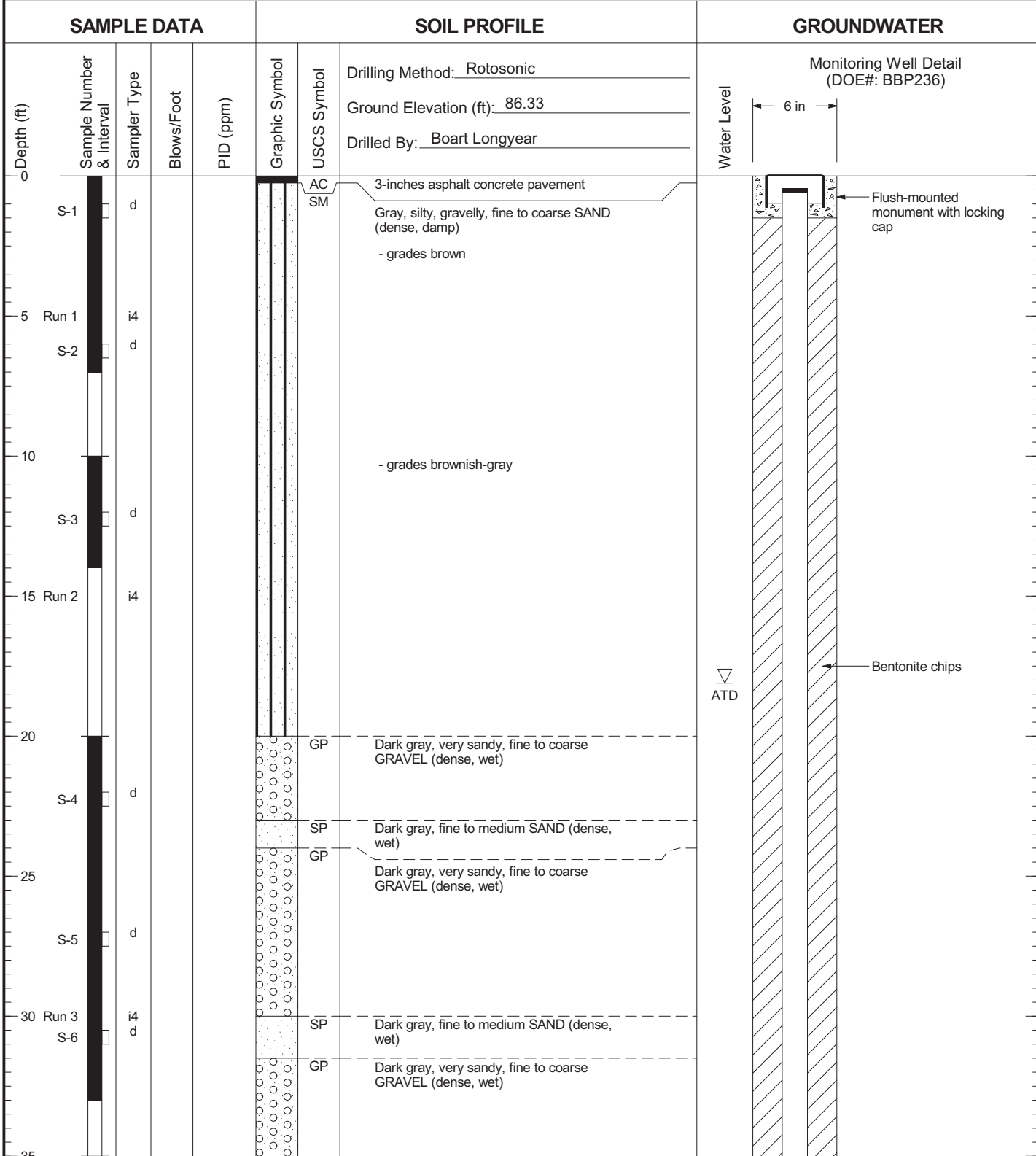


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW172

Figure  
C-141  
(2 of 2)

# AGW173

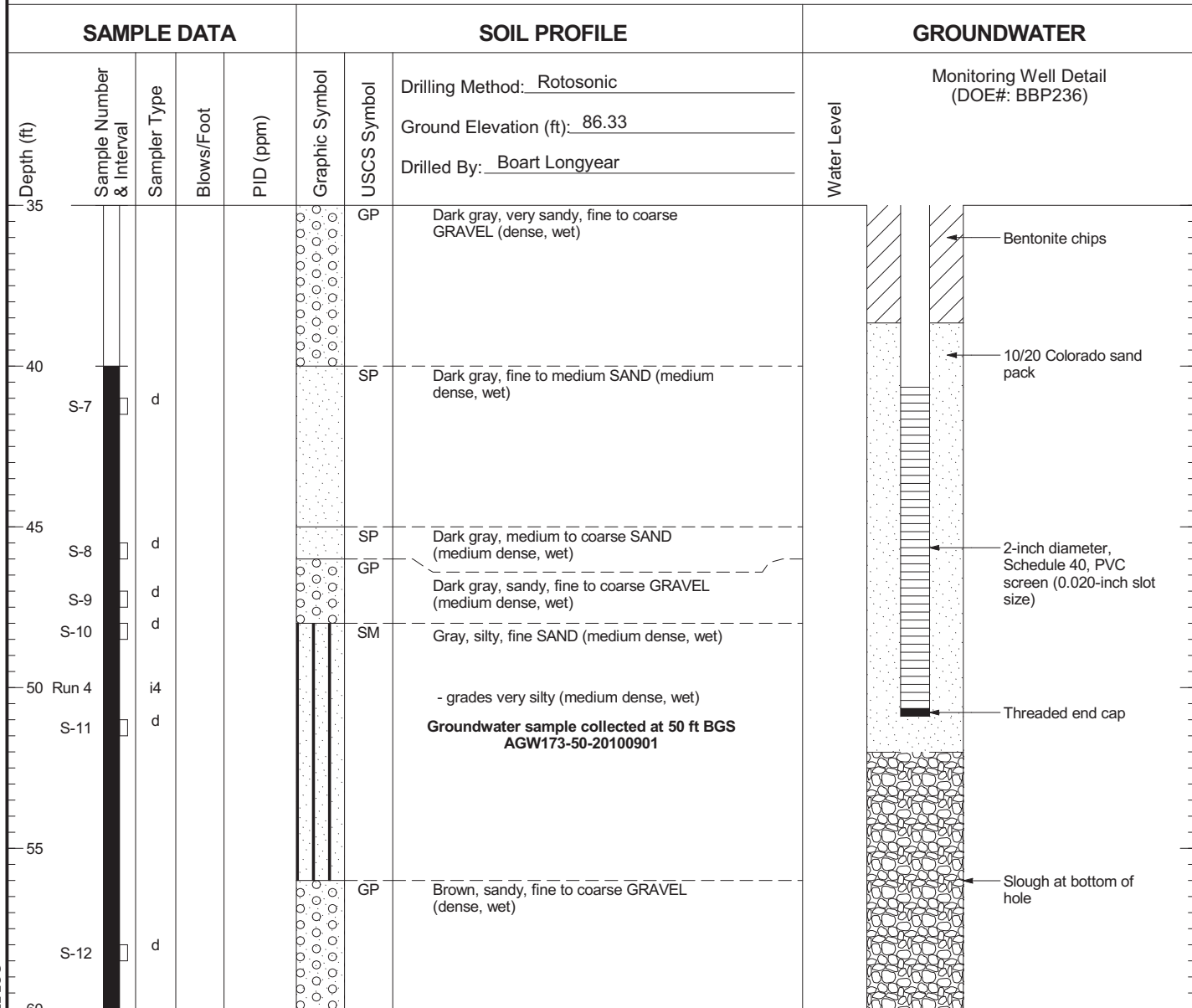


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BBP236

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW173



Boring Completed 09/01/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 09/01/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 85.68 ft.  
Total Depth of Monitoring Well = 50.9 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. DOE Unique Well Number: BBP236

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW173

Figure  
C-142  
(2 of 2)

# AGW174

SAMPLE DATA				SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	
									Ground Elevation (ft): <u>78.32</u>
							Drilled By: <u>Boart Longyear</u>	Monitoring Well Detail (DOE#: BBP232)	
0	Not Sampled - Air vacuumed for utilities							6 in	Flush-mounted monument with locking cap
5	Run 1 S-1	i4 d			SM	Mottled brown, very silty, fine SAND with roots (medium dense, damp)  - grades moist	ATD	Bentonite chips	
10	S-2	d			SP SP- SM	Black, fine to medium SAND (medium dense, wet)  Grayish-brown, fine to medium SAND with silt (medium dense, wet)  - grades dark gray			
15	Run 2 S-3	i4 d			SP	Black, fine to medium SAND (medium dense, wet)			
20	S-4	d			SP- SM	Brownish-gray, fine to medium SAND with silt (medium dense, wet)			
25	Run 3 S-5	i4 d			SP	Dark brownish-gray, fine to medium SAND with trace silt (medium dense, wet)			
30	S-6	d			SP- SM	Dark gray with light gray grains, fine to medium SAND with silt (medium dense, wet)			
35					SM	Gray, silty to very silty, fine SAND (medium dense, wet)			

- 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. DOE Unique Well Number: BBP232

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW174

Figure  
C-143  
(1 of 2)

# AGW174

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		Water Level	Monitoring Well Detail (DOE#: BBP232)
							Ground Elevation (ft): <u>78.32</u>			
35	Run 4 S-7	i4 d			[Vertical lines]	SM	Gray, silty to very silty, fine SAND (medium dense, wet)			
					[Dashed lines]	SP	Dark gray, fine to medium SAND with trace silt (medium dense, wet)			
40	S-8	d			[Vertical lines]	SM	Dark gray, silty, fine SAND with gravel (medium dense, wet)			
					[Dotted circles]	GP	Brown, very sandy, fine to coarse GRAVEL (medium dense, wet)			
45	Run 5 S-9	i4 d			[Dotted circles]	GP	Brown, coarse GRAVEL (medium dense, wet) - grades sandy			
					[Dotted circles]	GP	Brown, coarse GRAVEL (medium dense, wet) - grades sandy			
50					[Dotted circles]	GP	Gray, sandy, fine to coarse GRAVEL (medium dense, wet)			
	S-10	d			[Dotted circles]					
55	Run 6	i4			[Dotted circles]					
	S-11	d			[Dotted circles]		- grades with sand			
60					[Dotted circles]					

Boring Completed 08/23/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 08/23/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.03 ft.  
Total Depth of Monitoring Well = 59.2 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. DOE Unique Well Number: BBP232

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

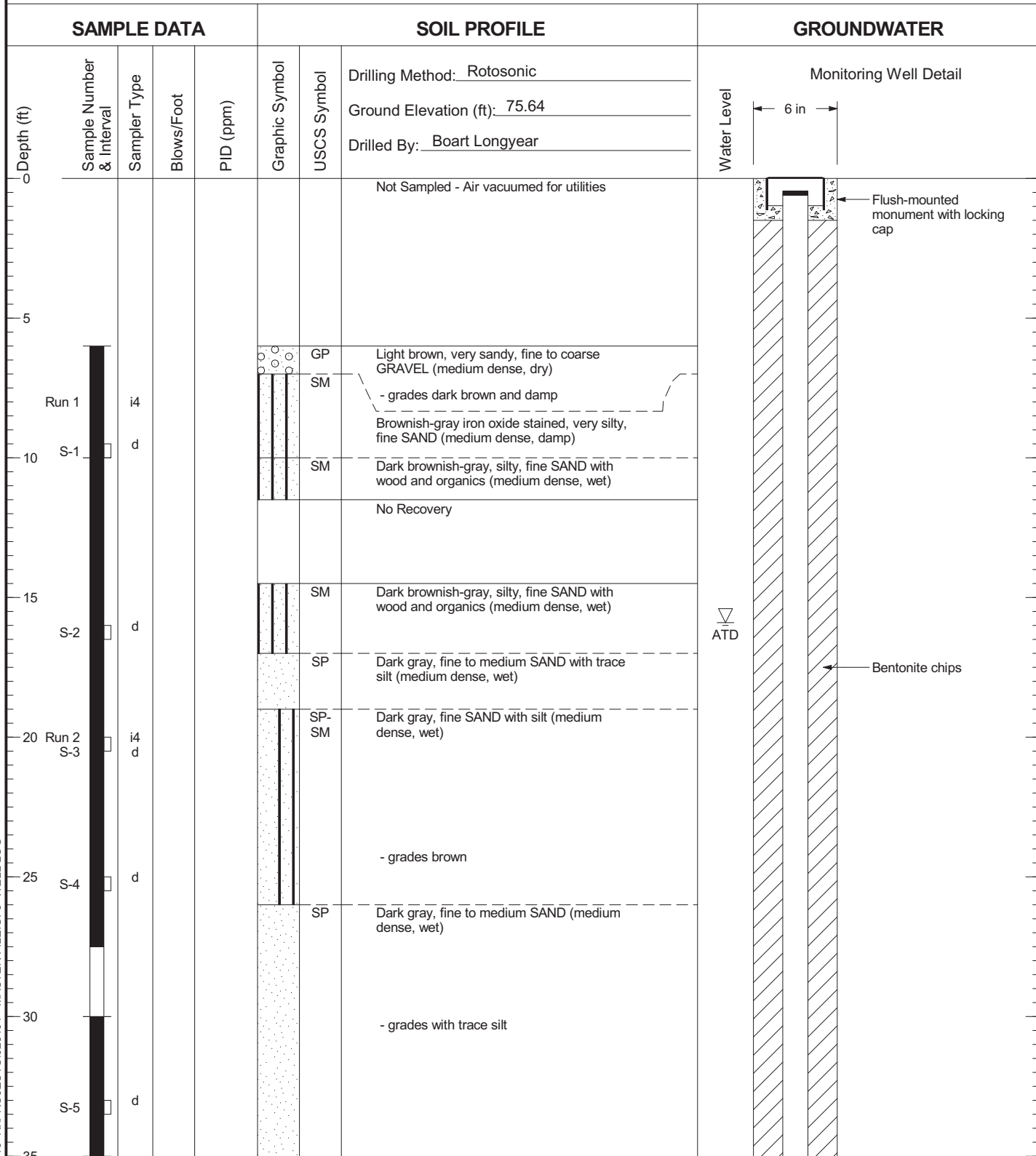


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW174

Figure  
C-143  
(2 of 2)

# AGW175



- 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. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW175

Figure  
C-144  
(1 of 2)

# AGW175

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail
							Ground Elevation (ft): <u>75.64</u>		
							Drilled By: <u>Boart Longyear</u>		
35					[Stippled pattern]	SP	Dark gray, fine to medium SAND (medium dense, wet)		
							- grades gray		
40	S-6 Run 3	d i4							Bentonite chips
					[Vertical lines]	ML	Gray, fine sandy SILT (stiff, wet)		
					[Vertical lines]	SM	Gray, very silty, fine SAND (medium dense, wet)		
45	S-7 S-8	d d			[Circles]	GP-GM	Brown, fine to coarse GRAVEL with silt and sand (medium dense, wet)		10/20 Colorado sand pack
					[Circles]	SP	Grayish-brown, fine to coarse SAND with trace gravel (medium dense, wet)		
					[Circles]	GP	Grayish-brown, fine to coarse GRAVEL with sand (medium dense, wet)		2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
50	S-9	d					- grades sandy		Threaded end cap
									Slough at bottom of hole
55	Run 4	i4							
60	S-10	d							

Boring Completed 08/27/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 08/27/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 75.16 ft.  
Total Depth of Monitoring Well = 58.2 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\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

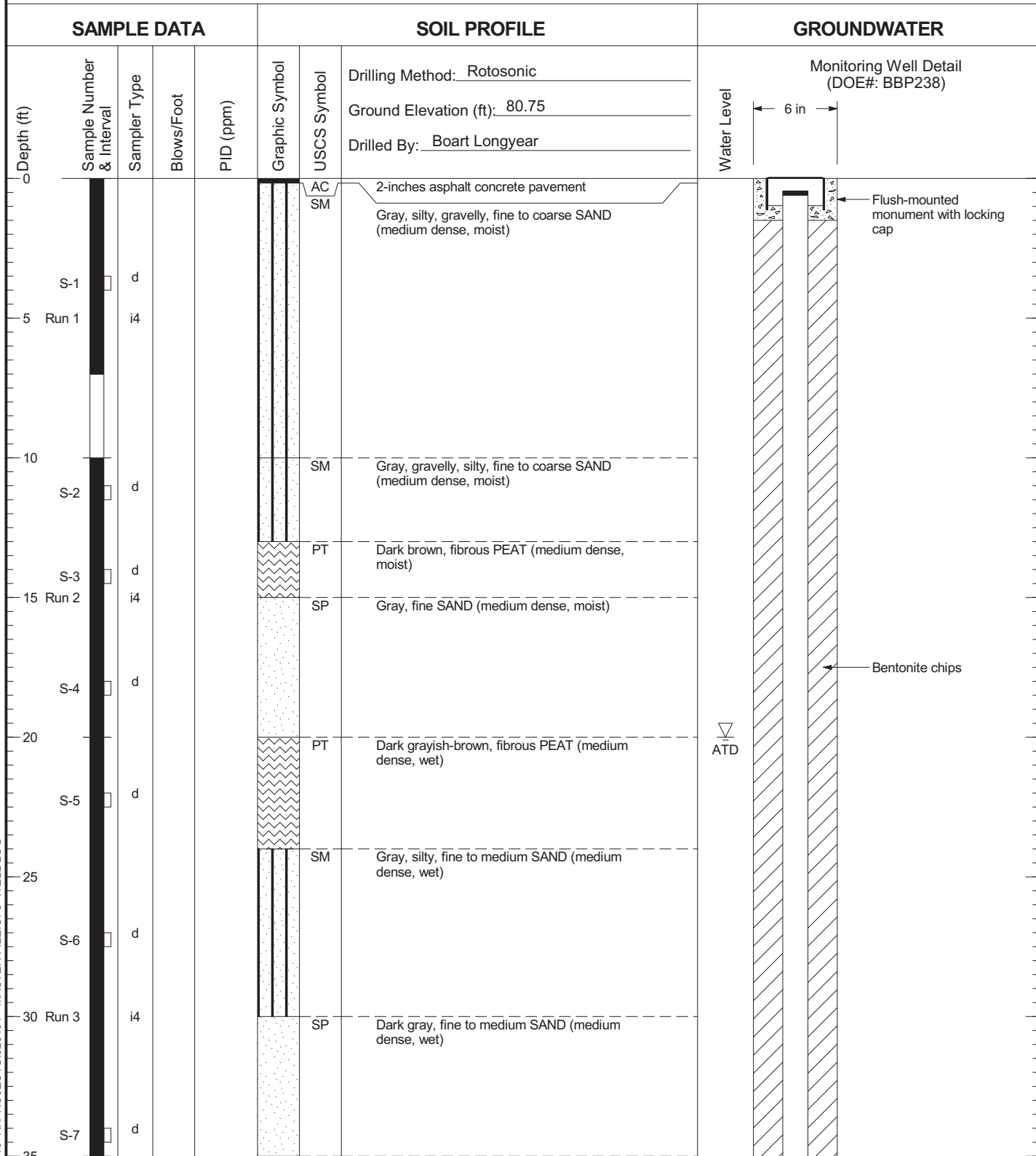


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW175

Figure  
C-144  
(2 of 2)

# AGW176



- 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. DOE Unique Well Number: BBP238

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW176

Figure  
C-145  
(1 of 2)



# AGW176

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BBP238)
							Ground Elevation (ft): <u>80.75</u>		
							Drilled By: <u>Boart Longyear</u>		
35	S-8	d			GP		Gray, sandy, fine to coarse GRAVEL (medium dense, wet)		
					SP		Dark gray, fine to medium SAND (medium dense, wet)		
40	S-9	d			GP		Gray, sandy, fine to coarse GRAVEL (dense, wet)		
					SP		Dark gray, gravelly, fine to coarse SAND (dense, wet)		
45	Run 4 S-10	i4 d			SM		Brown, very silty, fine to medium SAND (dense, wet)		
	S-11	d			GM		Brown, silty, sandy, fine to coarse GRAVEL (dense, wet)		
50	S-12	d			GP		Brown, sandy, fine to coarse GRAVEL (dense, wet)		
	Run 5 S-13	i4 d			GP		Brown, sandy, fine to coarse GRAVEL (dense, wet)		
55							- grades gray		
60									

Boring Completed 09/03/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 09/03/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 80.48 ft.  
Total Depth of Monitoring Well = 59.0 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. DOE Unique Well Number: BBP238

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

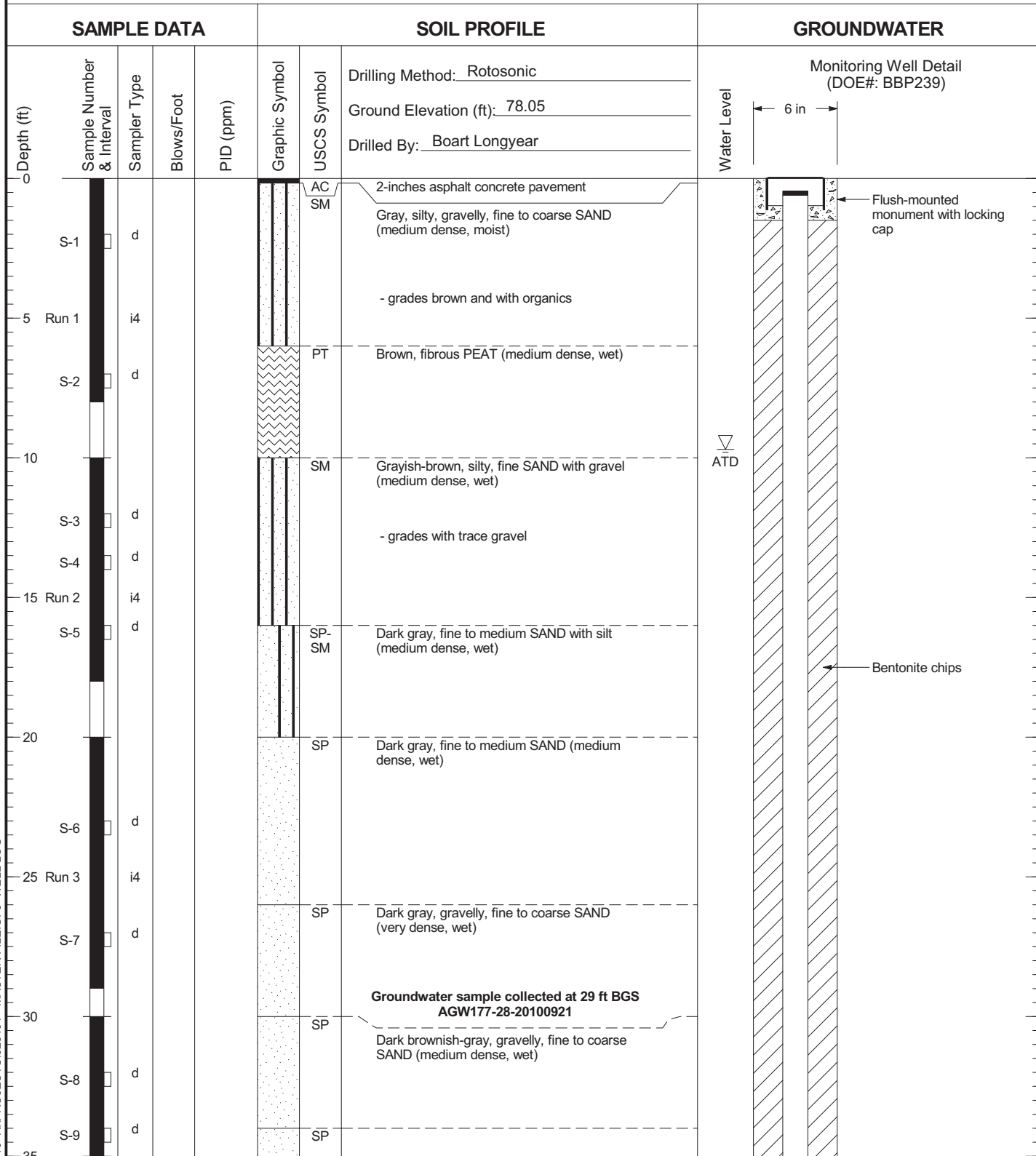


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW176

Figure  
C-145  
(2 of 2)

# AGW177



- 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. DOE Unique Well Number: BBP239

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

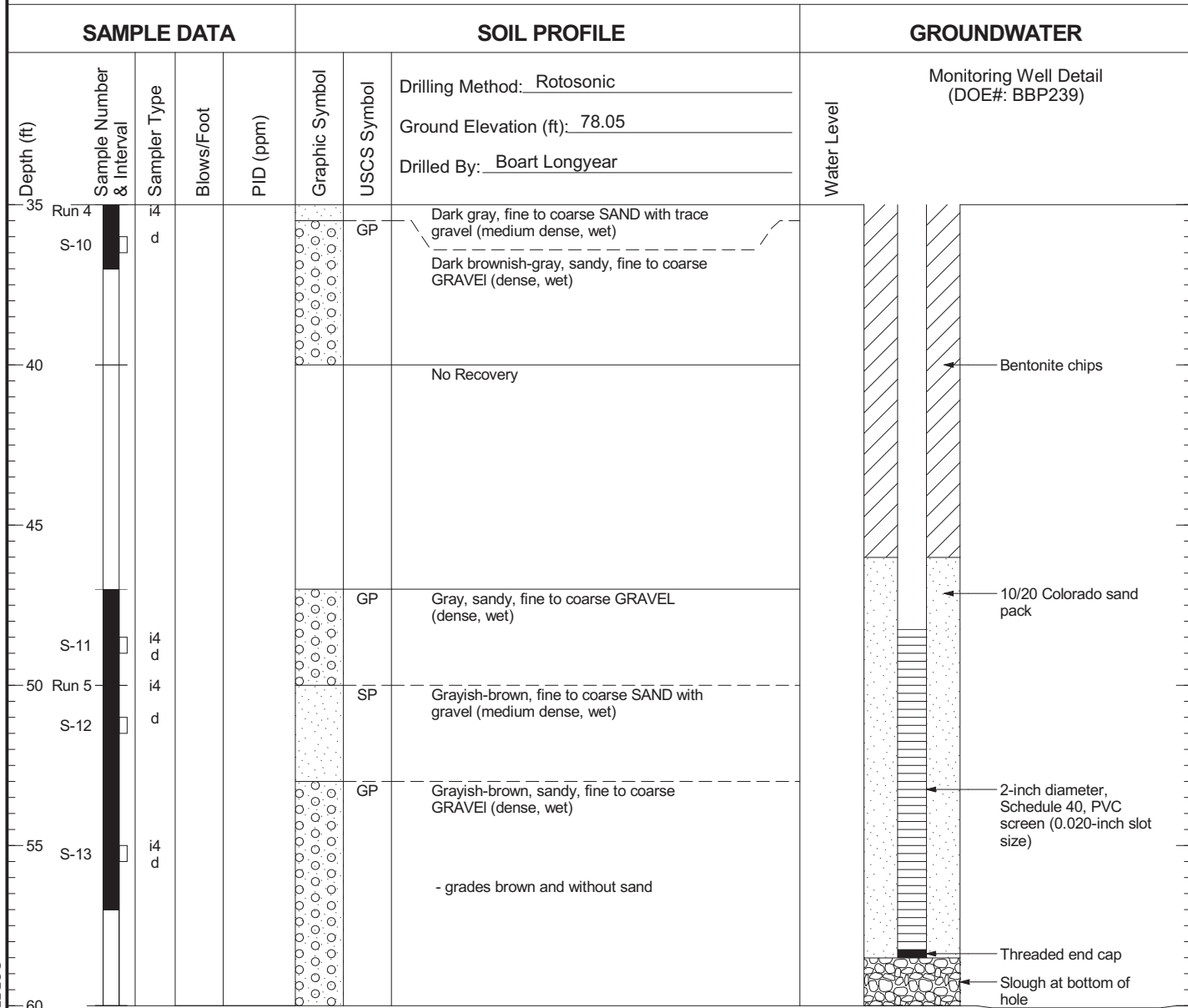


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW177

Figure  
C-146  
(1 of 2)

# AGW177



- 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. DOE Unique Well Number: **BBP239**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

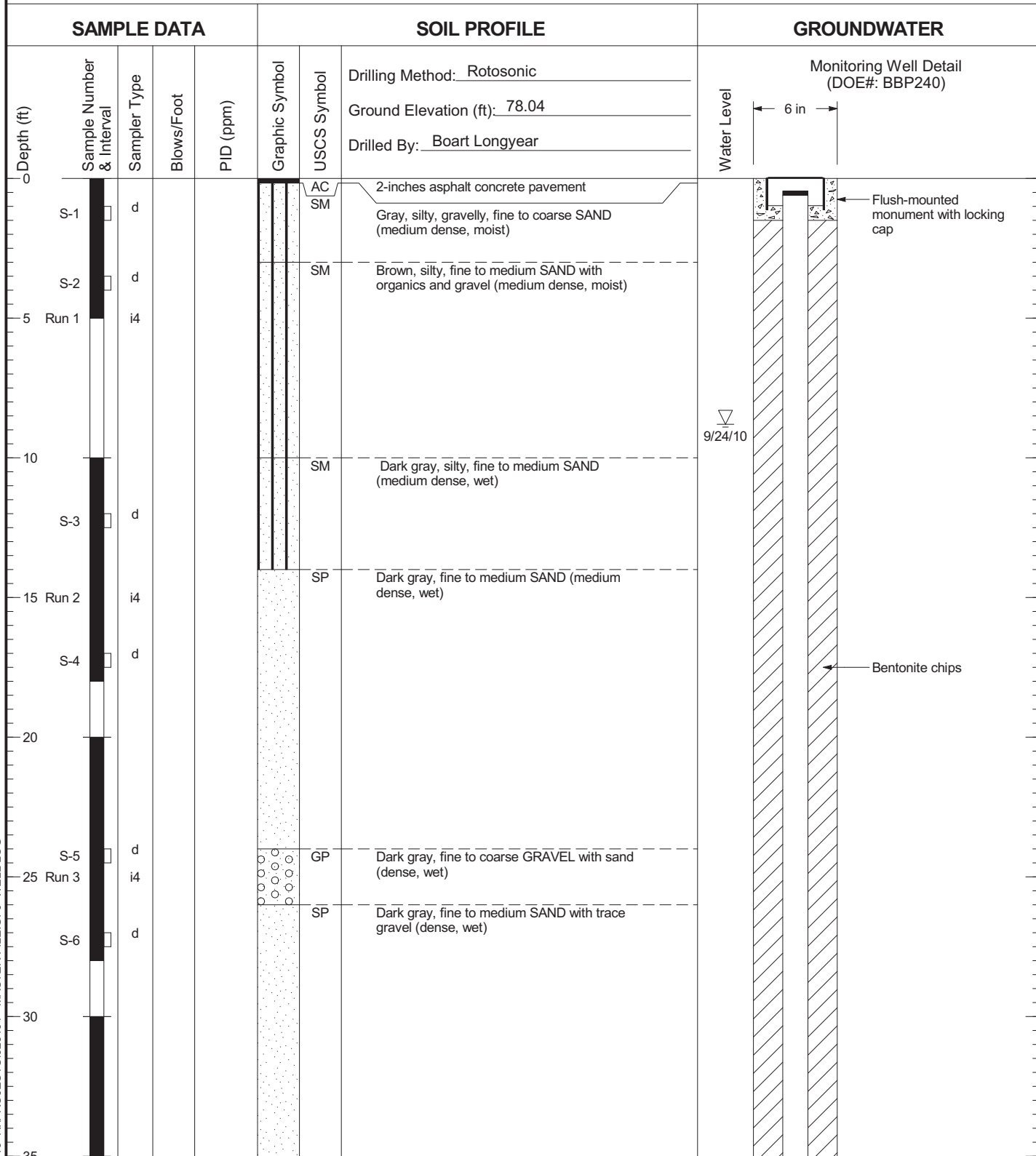


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW177

Figure  
C-146  
(2 of 2)

# AGW178



- 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. DOE Unique Well Number: BBP240

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW178

Figure  
C-147  
(1 of 3)

# AGW178

SAMPLE DATA			SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BBP240)
							Ground Elevation (ft): <u>78.04</u>		
	Run 4 S-7	i4			-	SP	- grades without gravel		
	S-8	d			○	GP	Dark gray, fine to coarse GRAVEL with sand (dense, wet)		
	S-9	d			○				
	Run 5 S-10	i4			○	SP	Brown, fine to coarse SAND with gravel (dense, wet)		
	S-11	d			○	SP	Dark gray, fine to medium SAND (medium dense, wet)		← Bentonite chips
	Run 6	i4			○				

- 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. DOE Unique Well Number: BBP240

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW178

Figure  
C-147  
(2 of 3)

# AGW178

SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Monitoring Well Detail (DOE#: BBP240)
							Ground Elevation (ft): <u>78.04</u>	
							Drilled By: <u>Boart Longyear</u>	
							Water Level	
70	S-12	d			SP		Dark gray, fine to medium SAND (medium dense, wet) - grades with gravel	
75	S-13	d			GP	Brown, fine to coarse GRAVEL (medium dense, wet)		
80	Run 7	i4				- grades sandy and dense		
85								
90	Run 8	i4			GP	Brown, fine to coarse GRAVEL with sand (dense, wet)	Bentonite chips	
95							10/20 Colorado sand pack	2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
								Threaded end cap

Boring Completed 09/22/10  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 09/22/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.74 ft.  
Total Depth of Monitoring Well = 95.0 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. DOE Unique Well Number: BBP240

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

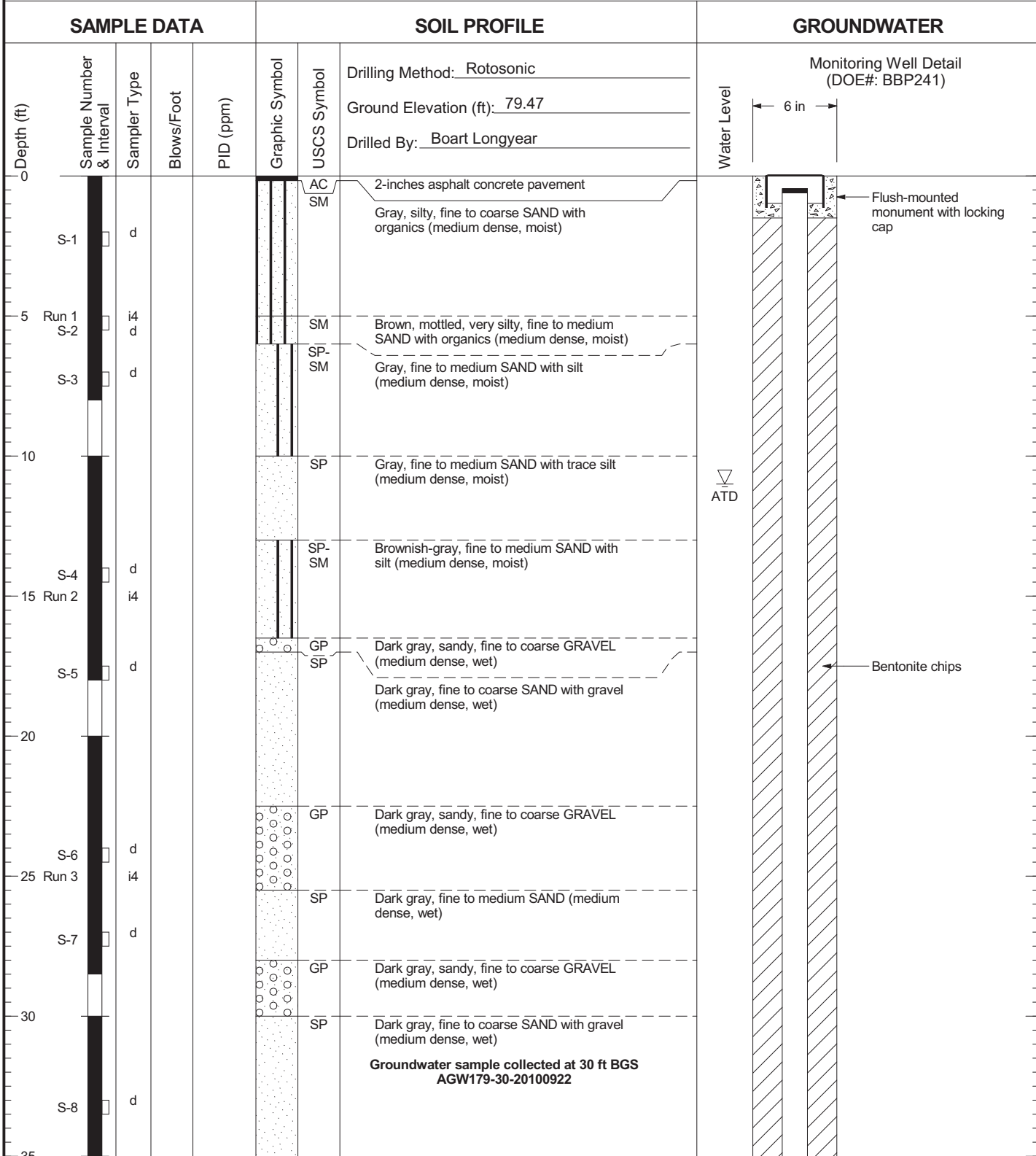


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW178

Figure  
C-147  
(3 of 3)

# AGW179



- 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. DOE Unique Well Number: BBP241

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

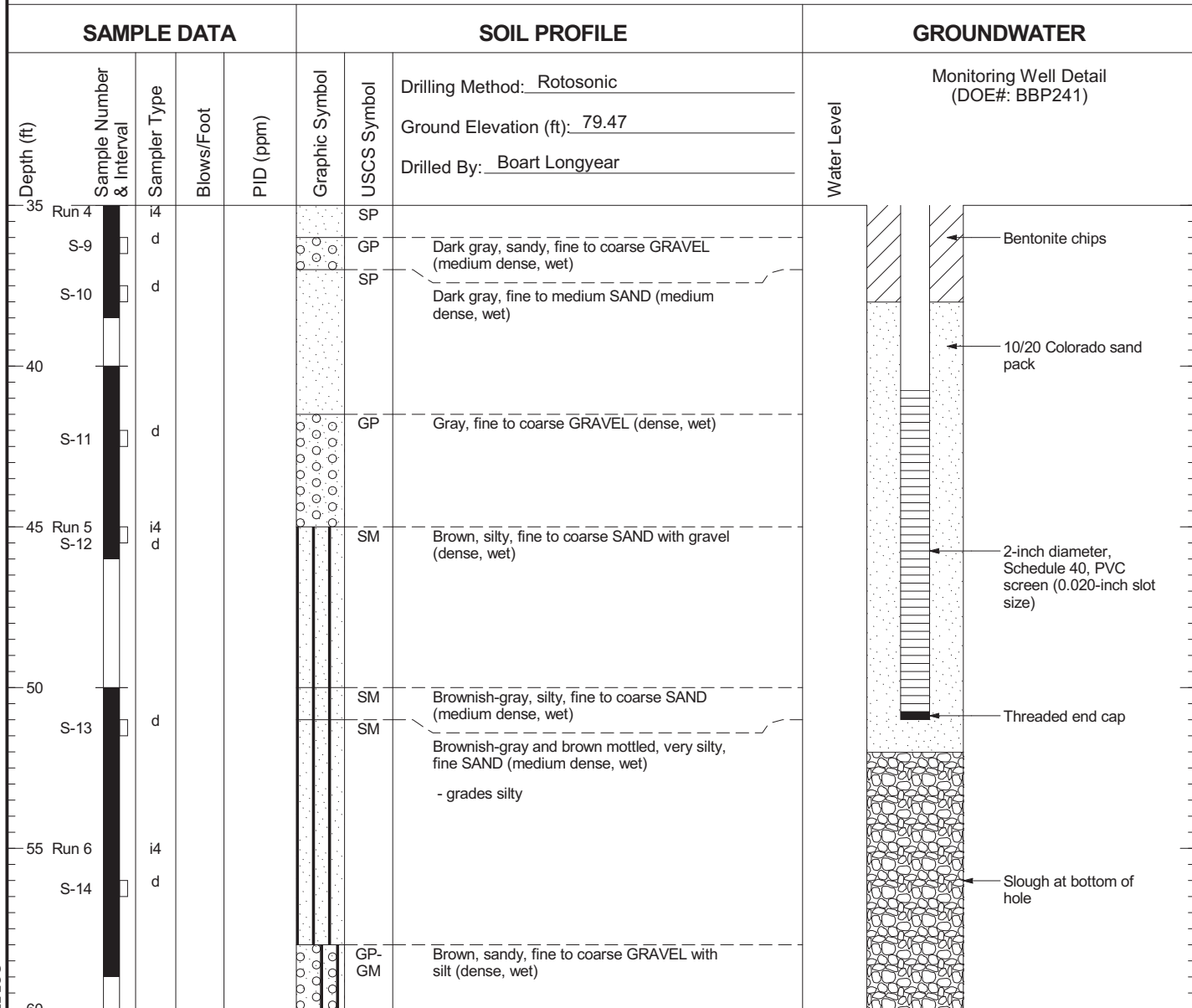


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW179

Figure  
C-148  
(1 of 2)

# AGW179



Boring Completed 09/23/10  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 09/23/10  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 79.22 ft.  
Total Depth of Monitoring Well = 51.0 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. DOE Unique Well Number: BBP241

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



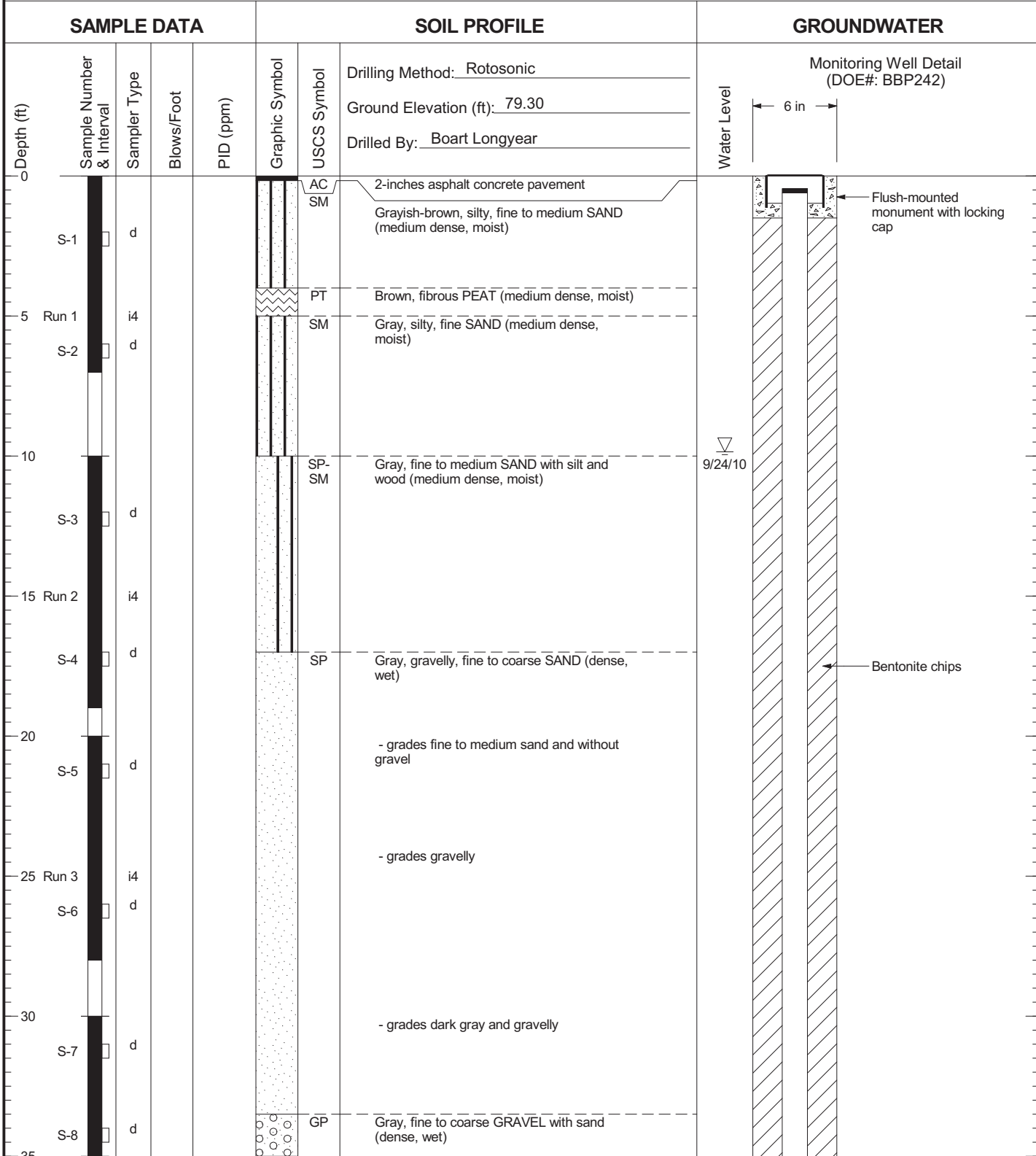
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW179

Figure  
C-148  
(2 of 2)



# AGW180



- 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. DOE Unique Well Number: BBP242

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW180

Figure  
C-149  
(1 of 3)

# AGW180

SAMPLE DATA			SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BBP242)
							Ground Elevation (ft): <u>79.30</u>		
	Run 4	i4			[Dotted pattern]	SP	Dark gray, fine to coarse SAND (dense, wet)		
	S-9	d							
	S-10	d			[Circular pattern]	GP	Dark gray, sandy, fine to coarse GRAVEL (dense, wet)		
	S-11	d					- grades gray		
	Run 5	i4			[Vertical lines]	SM	Brownish-gray, silty, fine to medium SAND (dense, wet)		
	S-12	d							
	S-13	d			[Vertical lines]	ML	Brownish-gray, very sandy SILT with organics (medium stiff, wet)		← Bentonite chips
	S-14	d			[Vertical lines]	SM	Gray, silty, fine SAND (medium dense, wet)		
	S-15	d			[Circular pattern]	GP	Gray, sandy, fine to coarse GRAVEL (medium dense, wet)		
	Run 6	i4			[Circular pattern]				← 10/20 Colorado sand

- 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. DOE Unique Well Number: BBP242

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

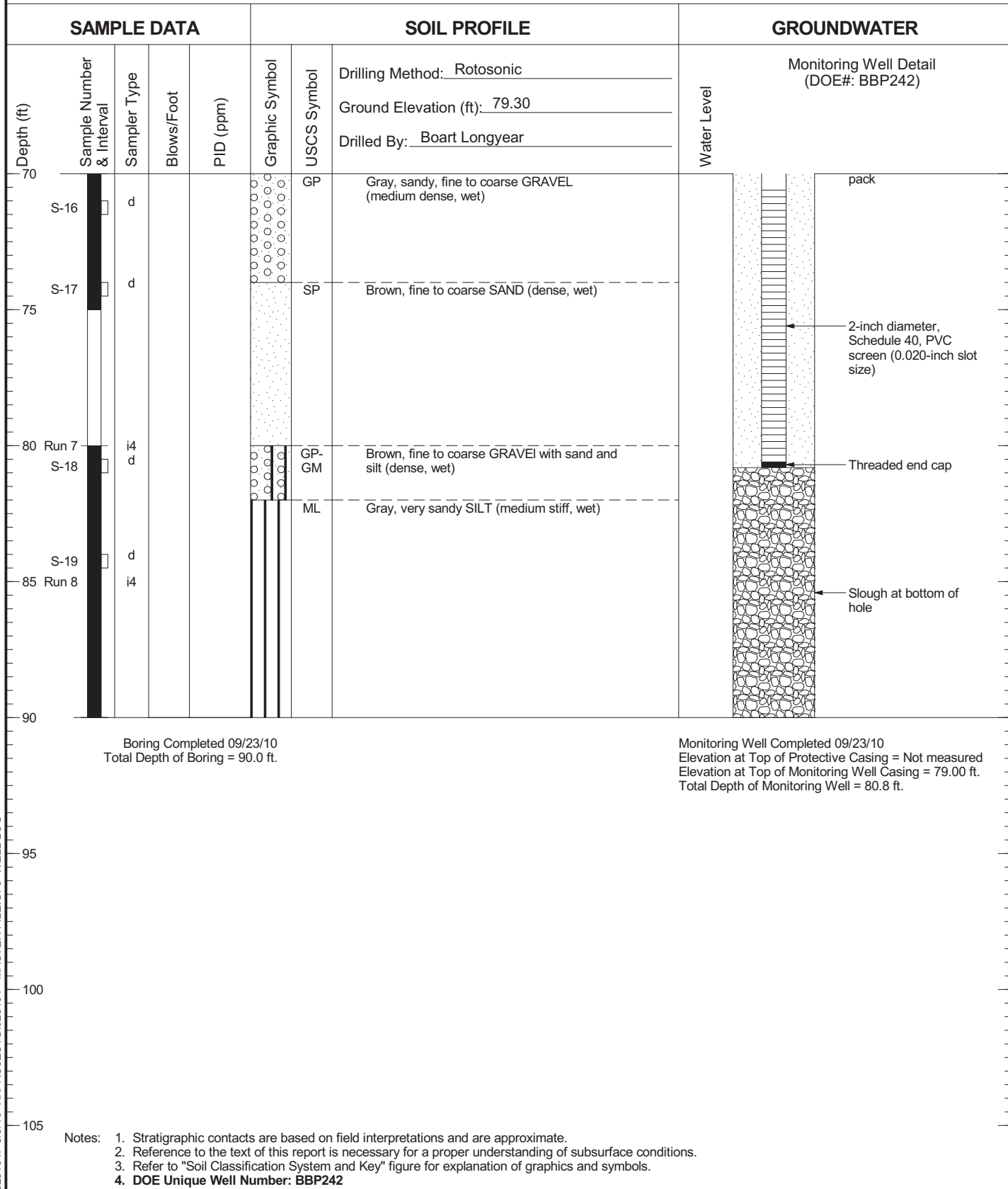


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW180

Figure  
C-149  
(2 of 3)

# AGW180



- 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. DOE Unique Well Number: BBP242

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

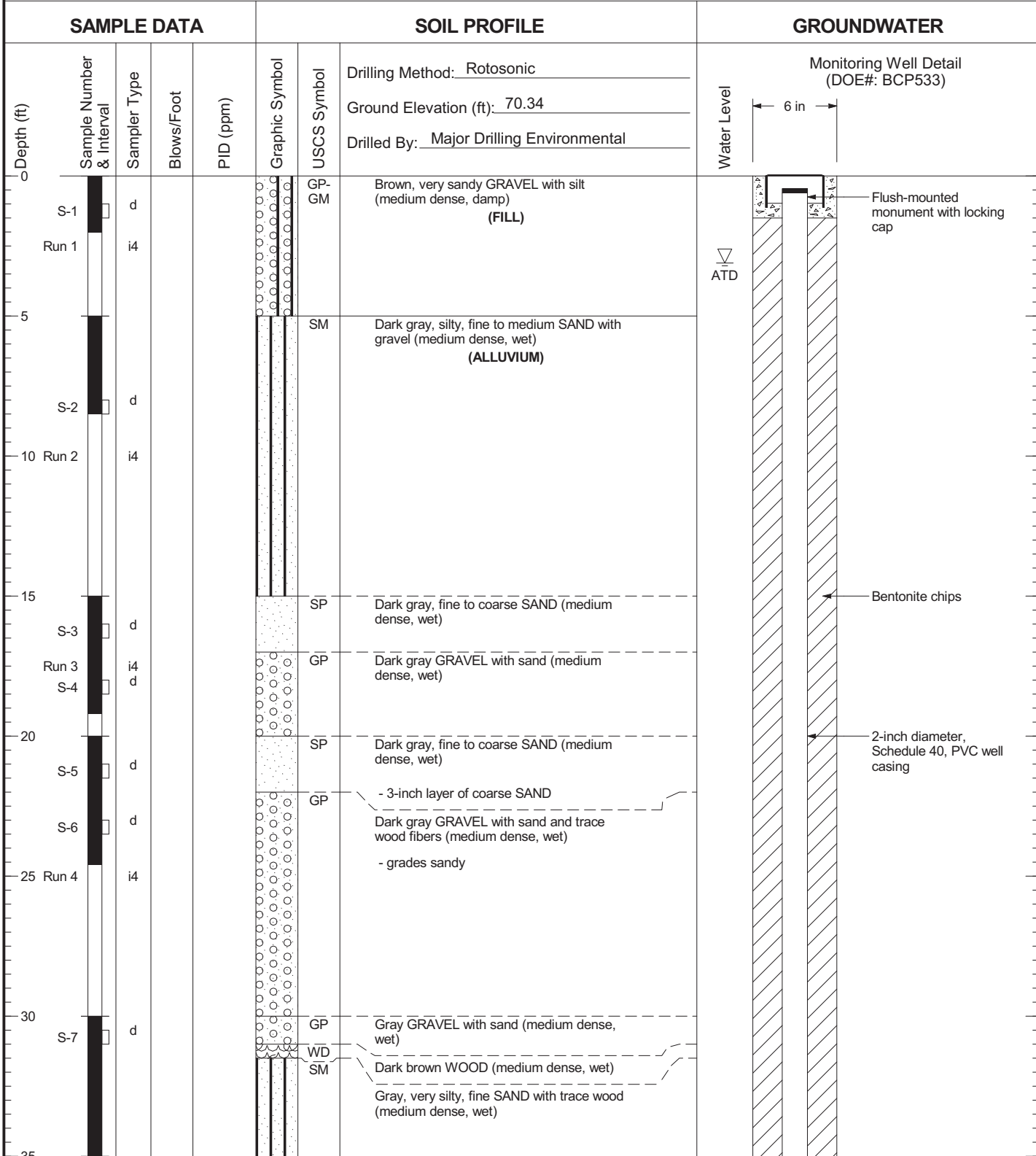


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW180

Figure  
C-149  
(3 of 3)

# AGW181

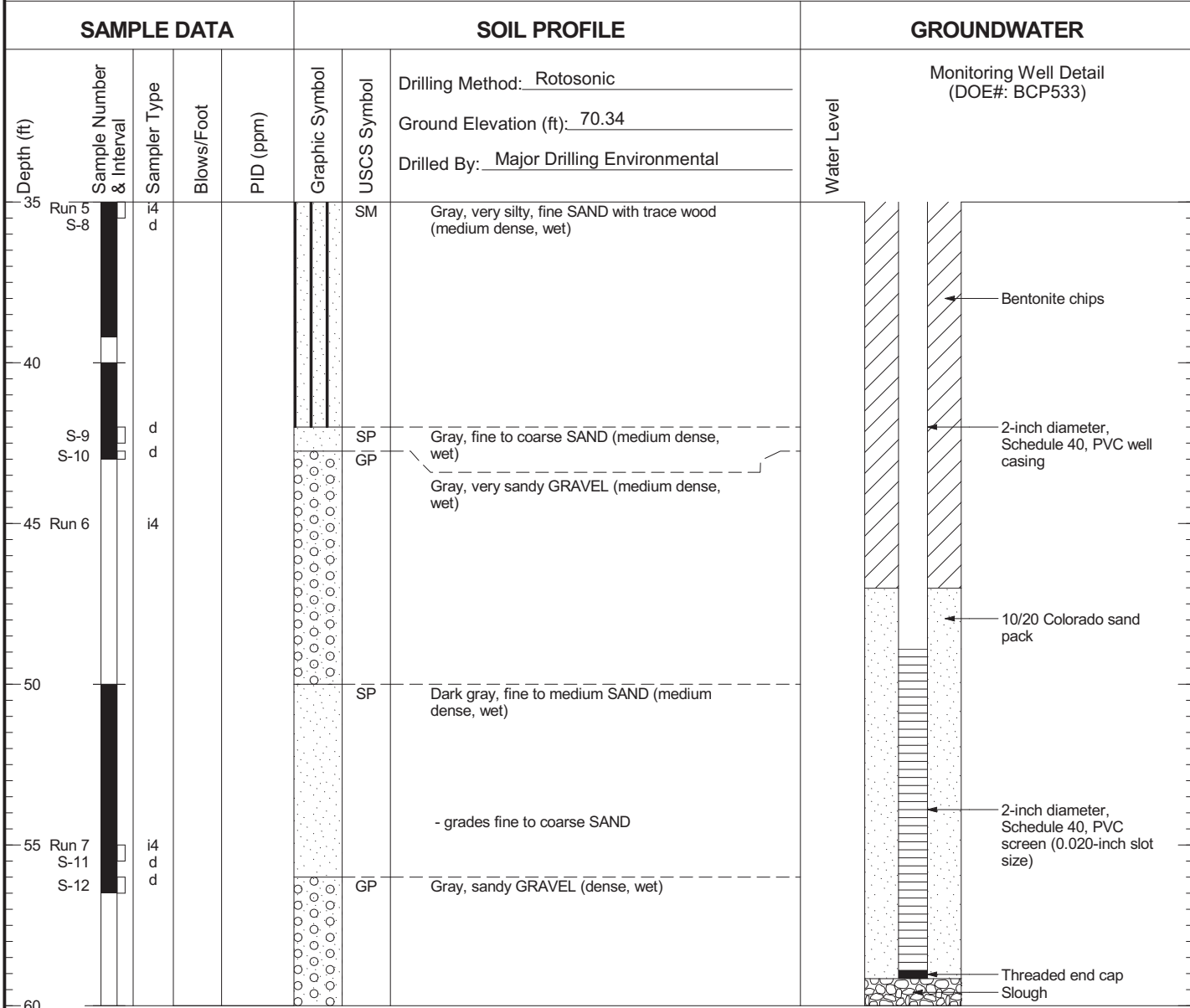


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCP533

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW181



Boring Completed 04/25/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 04/25/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 70.14 ft.  
Total Depth of Monitoring Well = 59.2 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. DOE Unique Well Number: BCP533

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

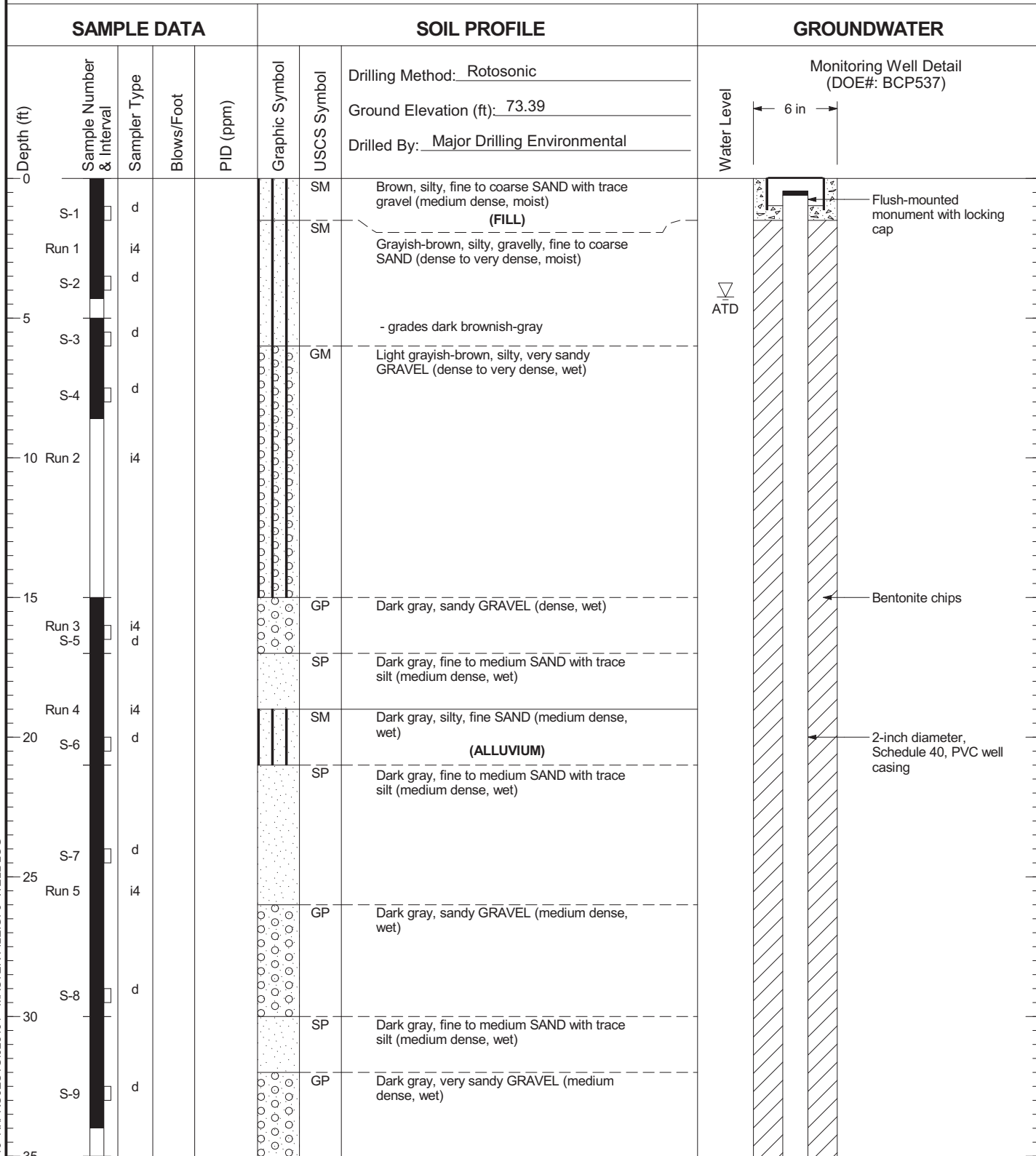


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW181

Figure  
C-150  
(2 of 2)

# AGW182



- 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. DOE Unique Well Number: BCP537

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

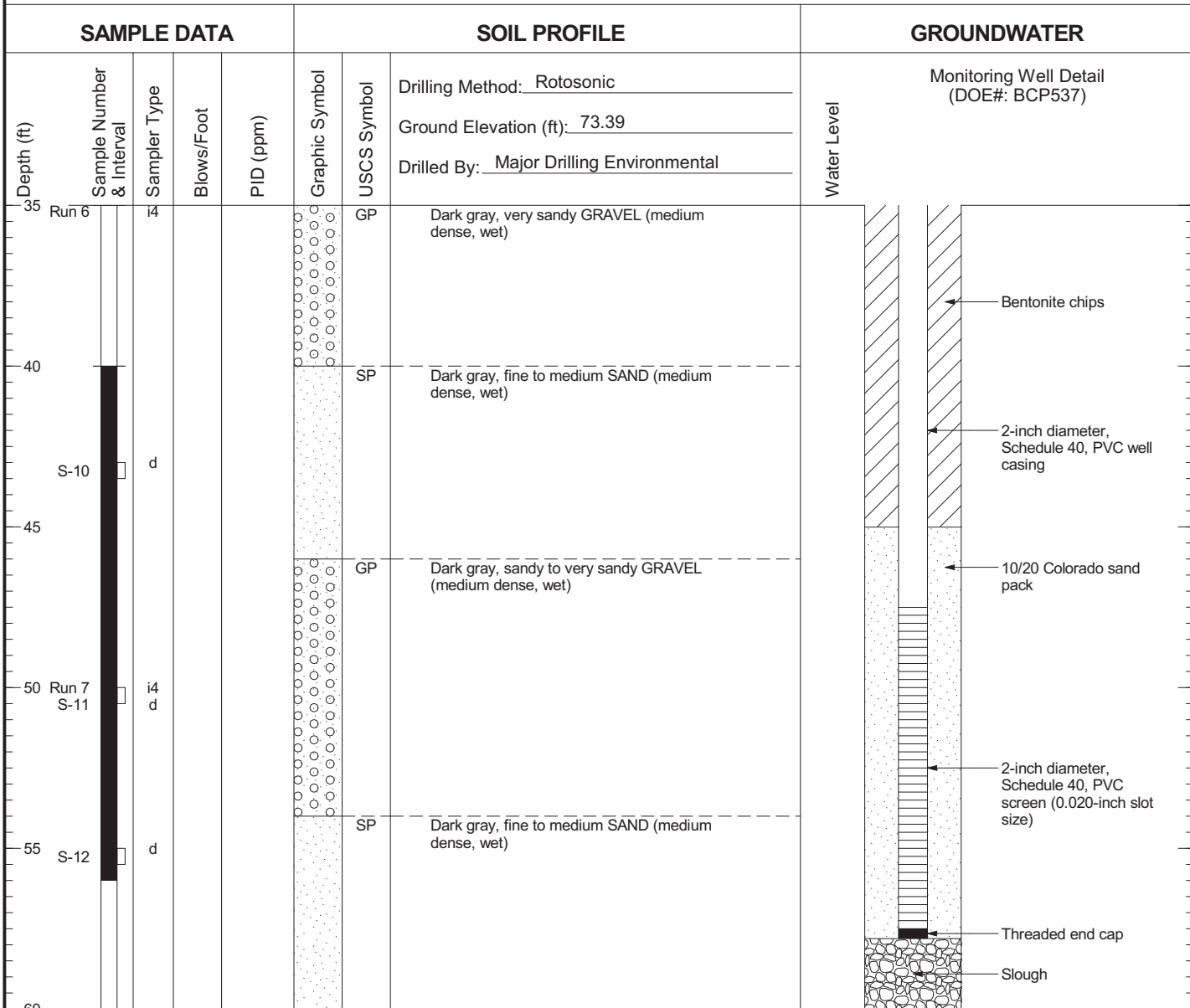


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW182

Figure  
C-151  
(1 of 2)

# AGW182



Boring Completed 04/29/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 04/29/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 73.16 ft.  
Total Depth of Monitoring Well = 57.8 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. DOE Unique Well Number: BCP537

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

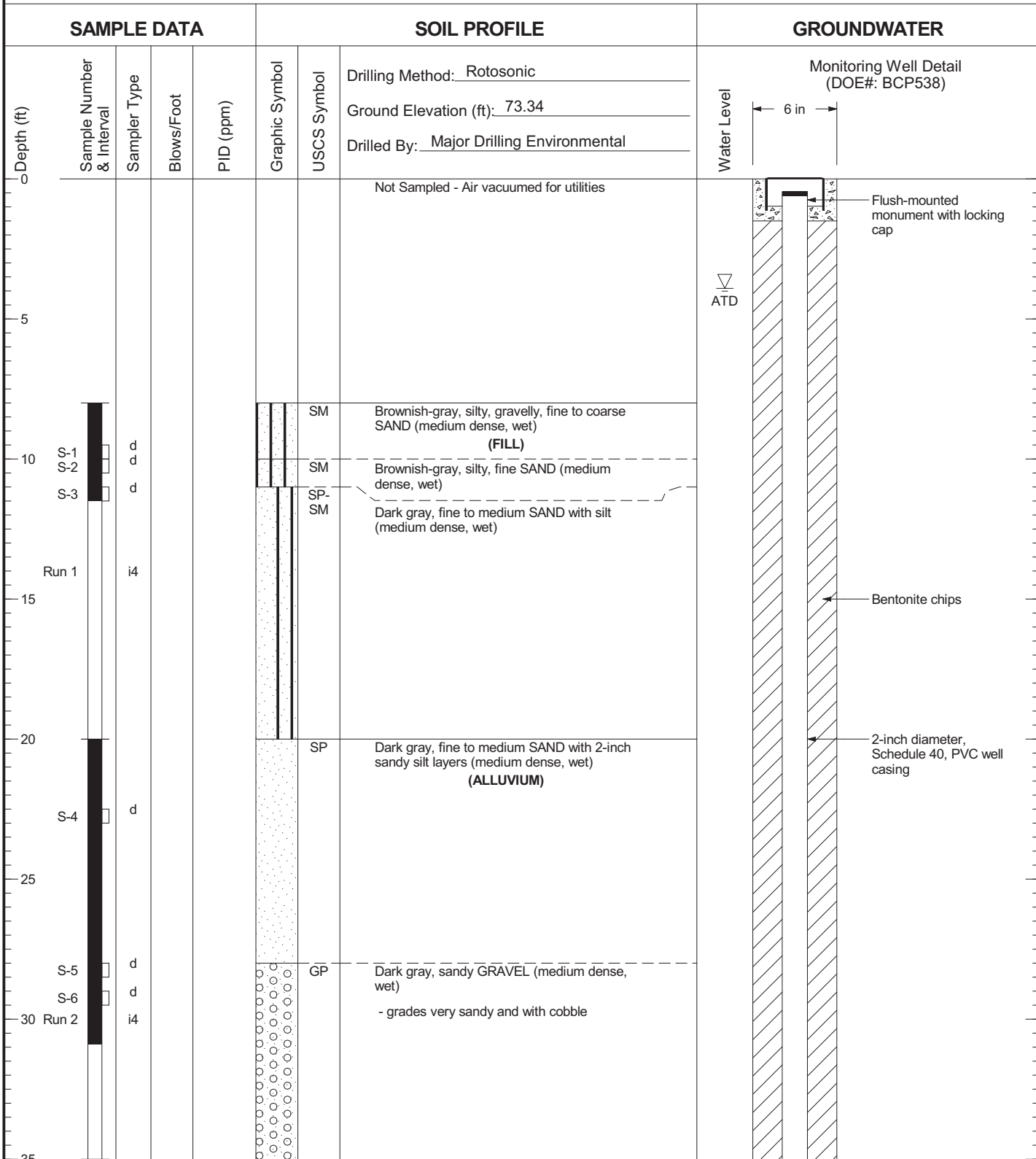


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW182

Figure  
C-151  
(2 of 2)

# AGW183



- 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. DOE Unique Well Number: BCP538

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



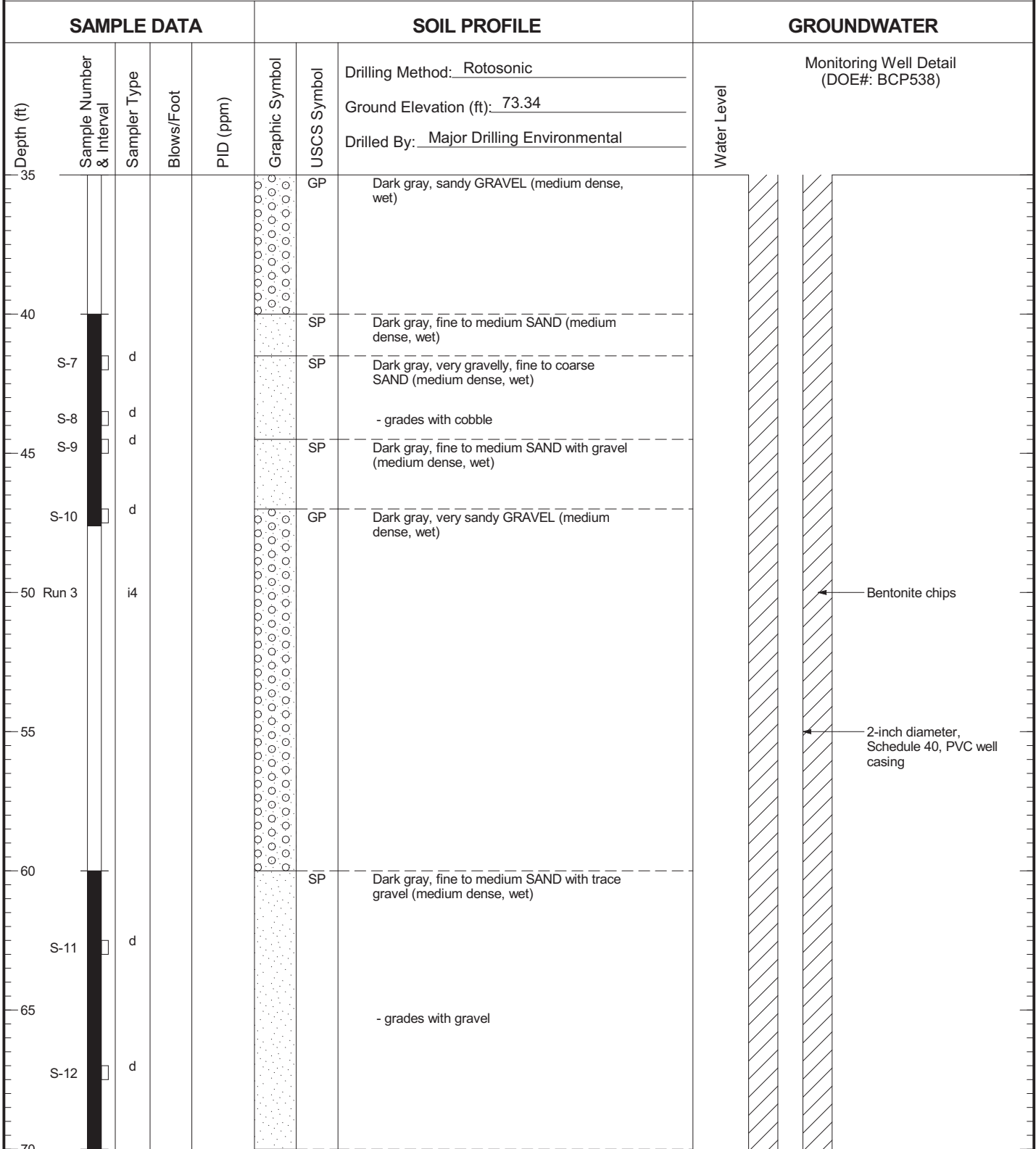
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW183

Figure  
C-152  
(1 of 4)



# AGW183



- 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. DOE Unique Well Number: BCP538

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

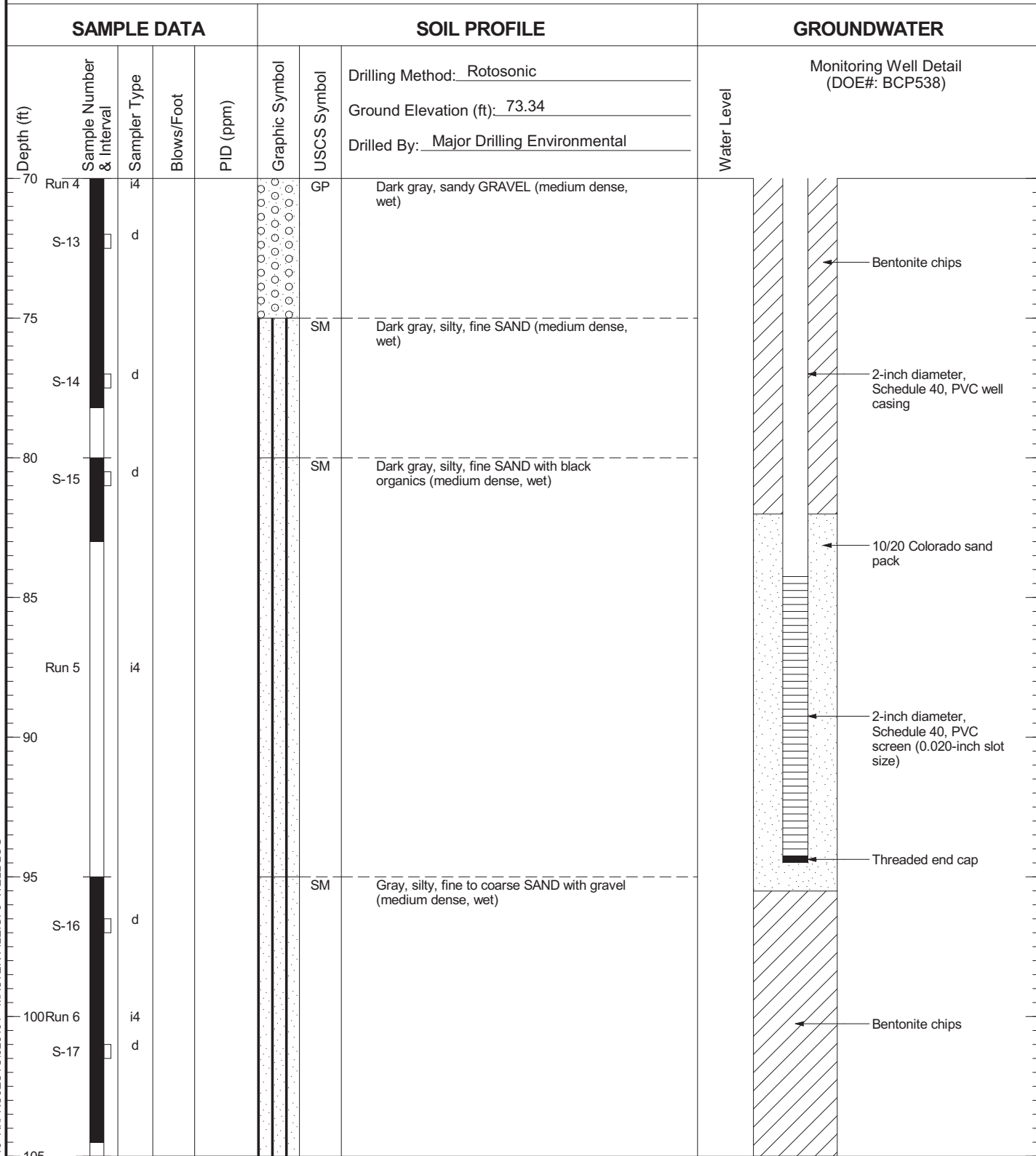


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW183

Figure  
C-152  
(2 of 4)

# AGW183



- 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. DOE Unique Well Number: BCP538

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW183

Figure  
C-152  
(3 of 4)

# AGW183

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>73.34</u> Drilled By: <u>Major Drilling Environmental</u>	Water Level	Monitoring Well Detail (DOE#: BCP538)
------------	--------------------------	--------------	------------	-----------	----------------	-------------	---	-------------	--

105  
110  
115  
120  
125  
130  
135  
140

Boring Completed 05/02/11  
Total Depth of Boring = 105.0 ft.

Monitoring Well Completed 05/02/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 73.01 ft.  
Total Depth of Monitoring Well = 94.5 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.
  4. DOE Unique Well Number: BCP538

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

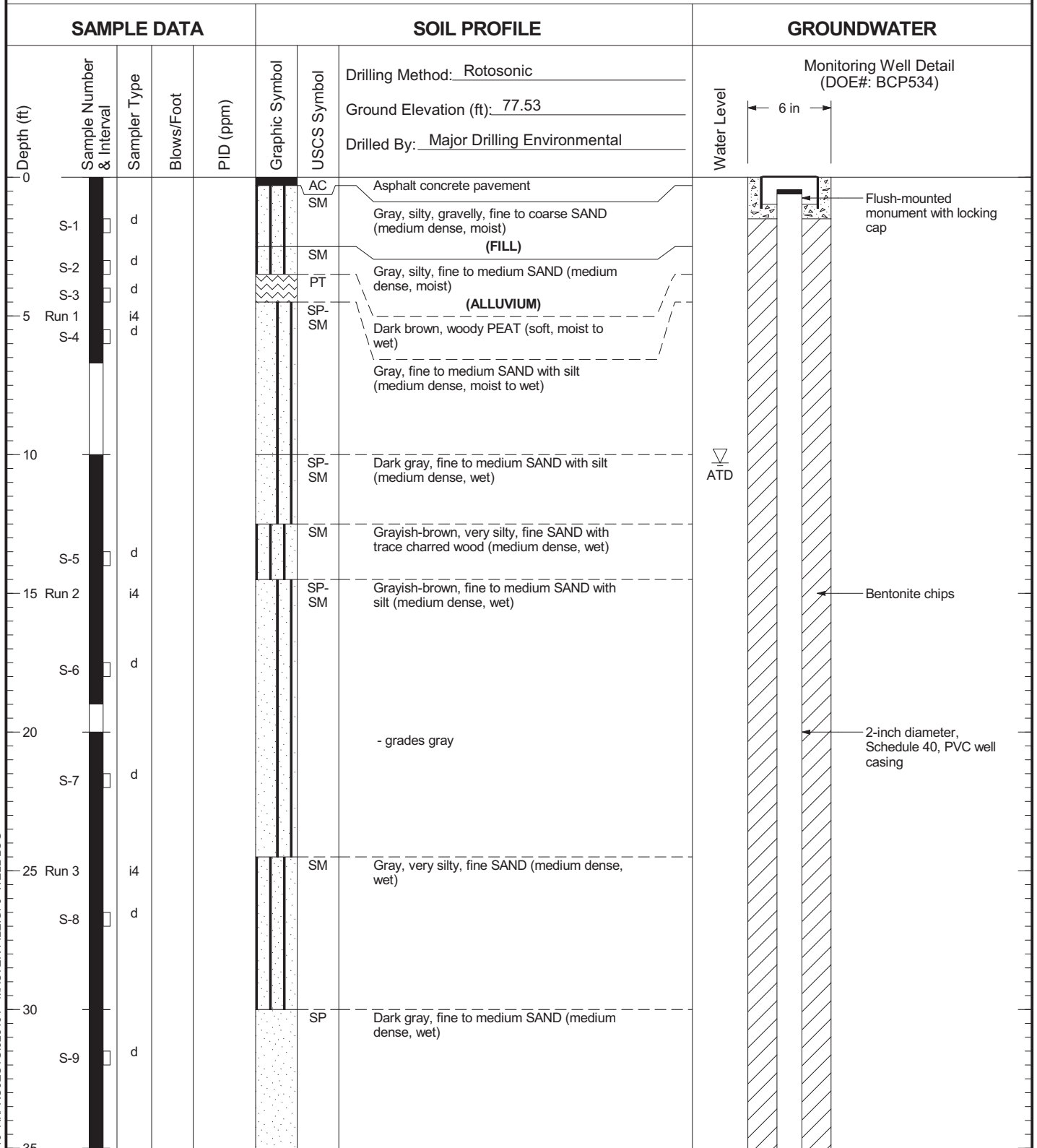


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW183

Figure  
C-152  
(4 of 4)

# AGW184



- 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. DOE Unique Well Number: BCP534

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



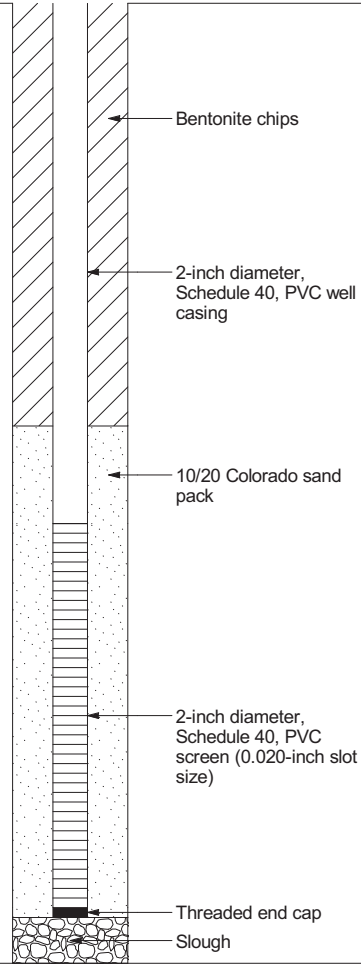
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW184

Figure  
C-153  
(1 of 2)

# AGW184

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		Water Level	Monitoring Well Detail (DOE#: BCP534)
							Ground Elevation (ft): <u>77.53</u>			
35	Run 4	i4				SP				
	S-10	d				GP	Brown, sandy GRAVEL (dense, wet)			
40	S-11	d								
45	Run 5	i4								
50	S-12	d					- grades very sandy - grades sandy			
55	Run 6	i4								
60	S-13	d								



Boring Completed 04/26/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 04/26/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.26 ft.  
Total Depth of Monitoring Well = 58.8 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. DOE Unique Well Number: BCP534

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

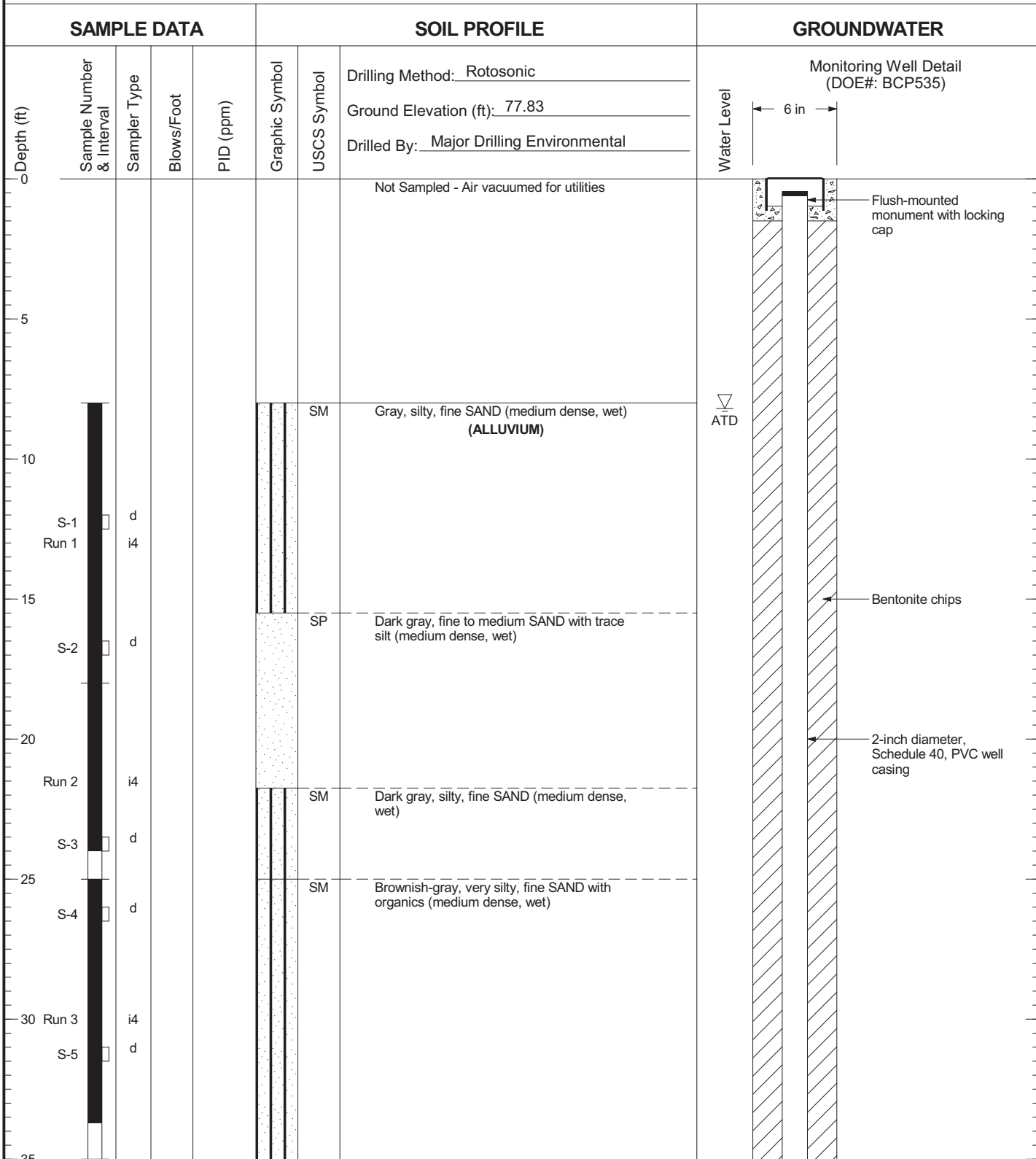


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW184

Figure  
C-153  
(2 of 2)

# AGW185



- 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. DOE Unique Well Number: BCP535

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

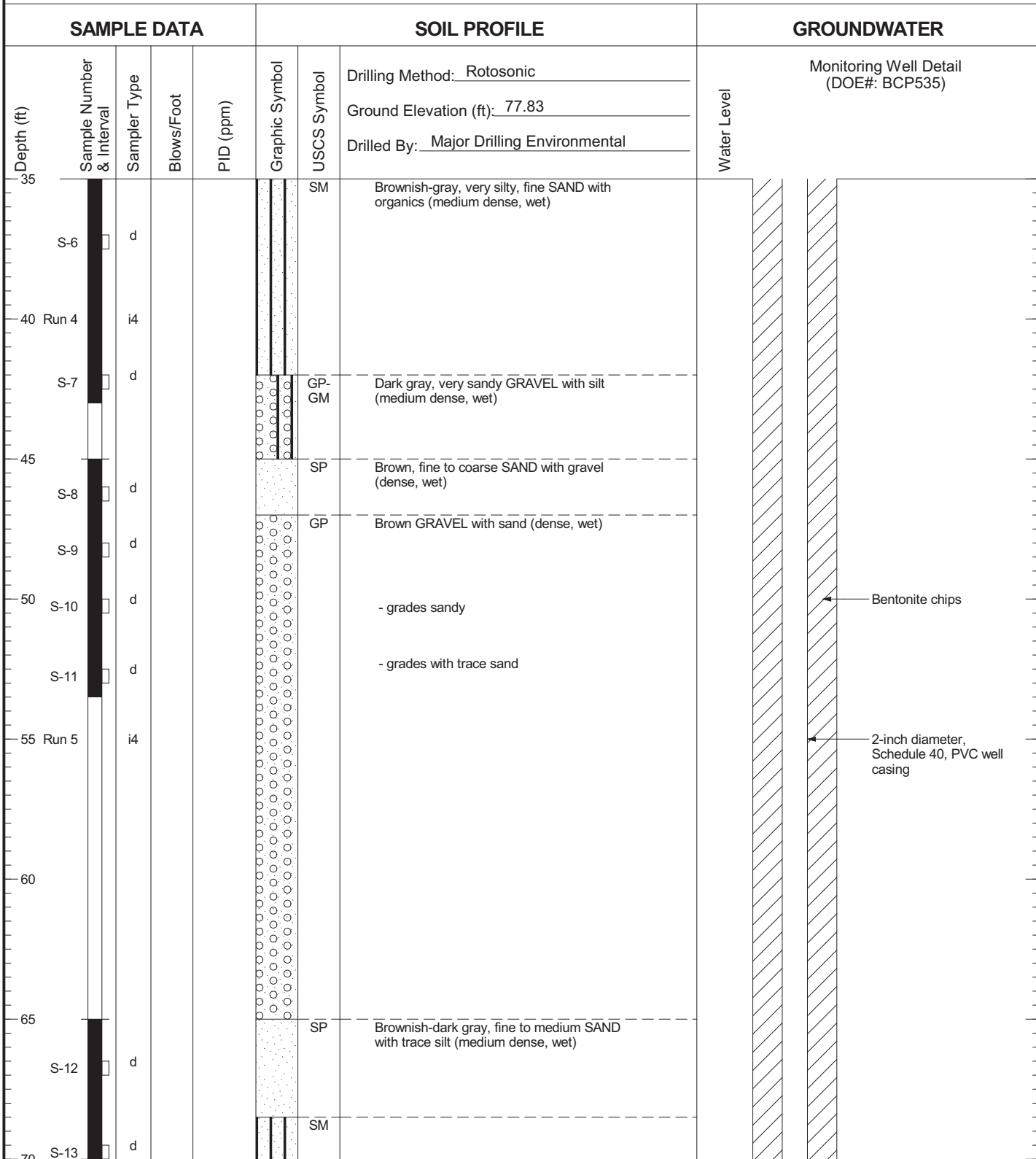


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW185

Figure  
C-154  
(1 of 3)

# AGW185

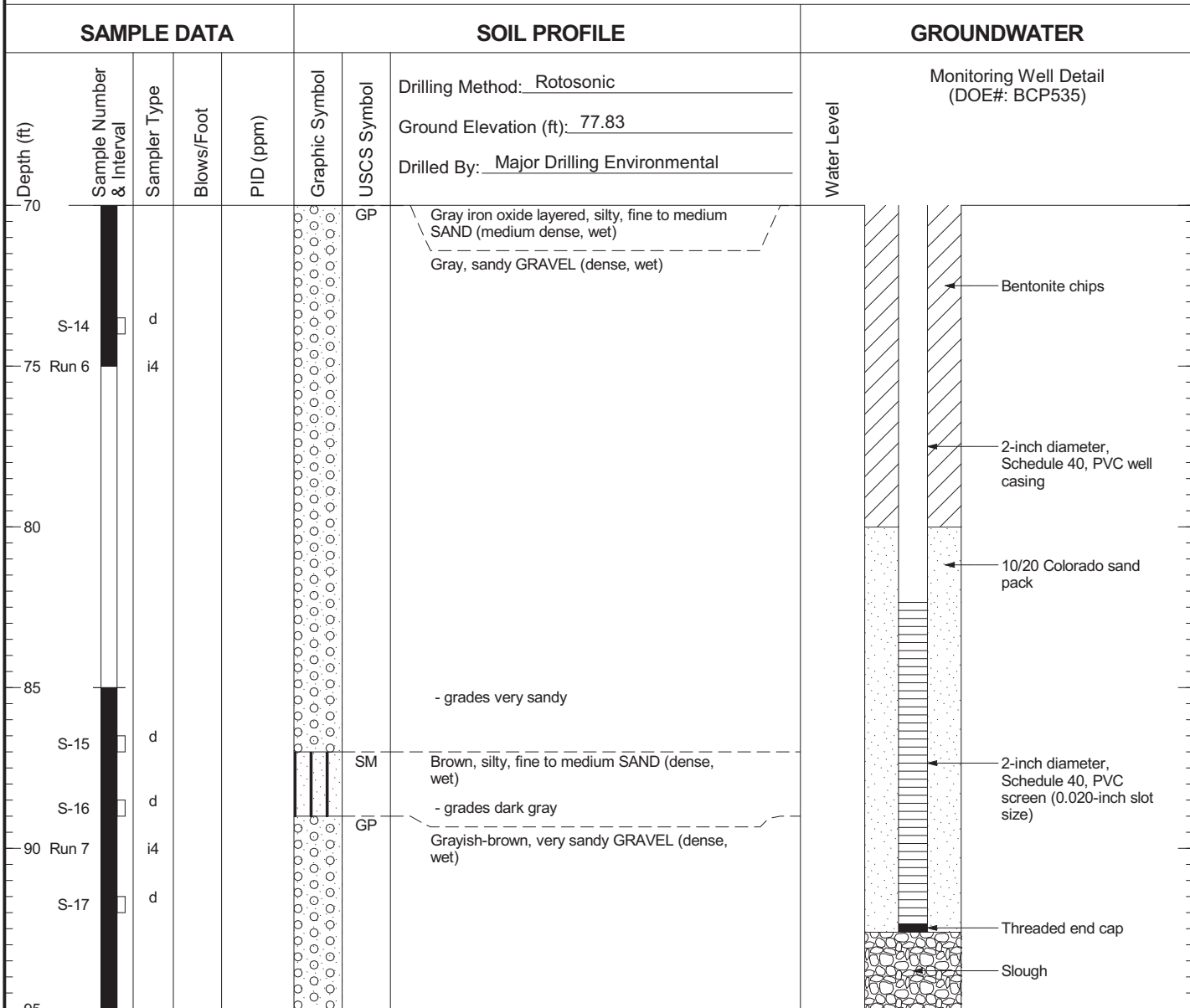


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCP535

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW185



Boring Completed 04/27/11  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 04/27/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.39 ft.  
Total Depth of Monitoring Well = 92.6 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. DOE Unique Well Number: BCP535

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



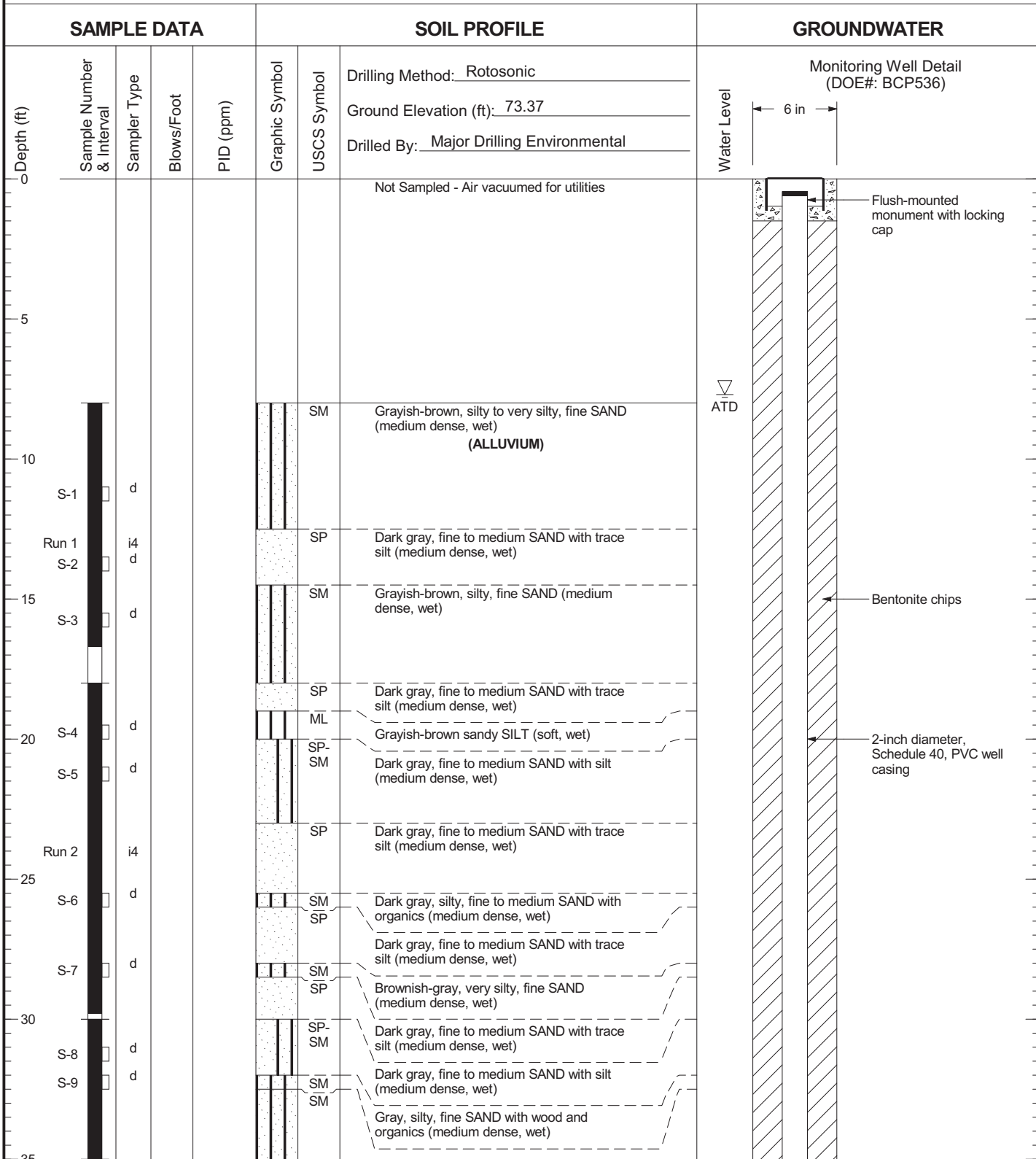
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW185

Figure  
C-154  
(3 of 3)



# AGW186



- 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. DOE Unique Well Number: BCP536

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

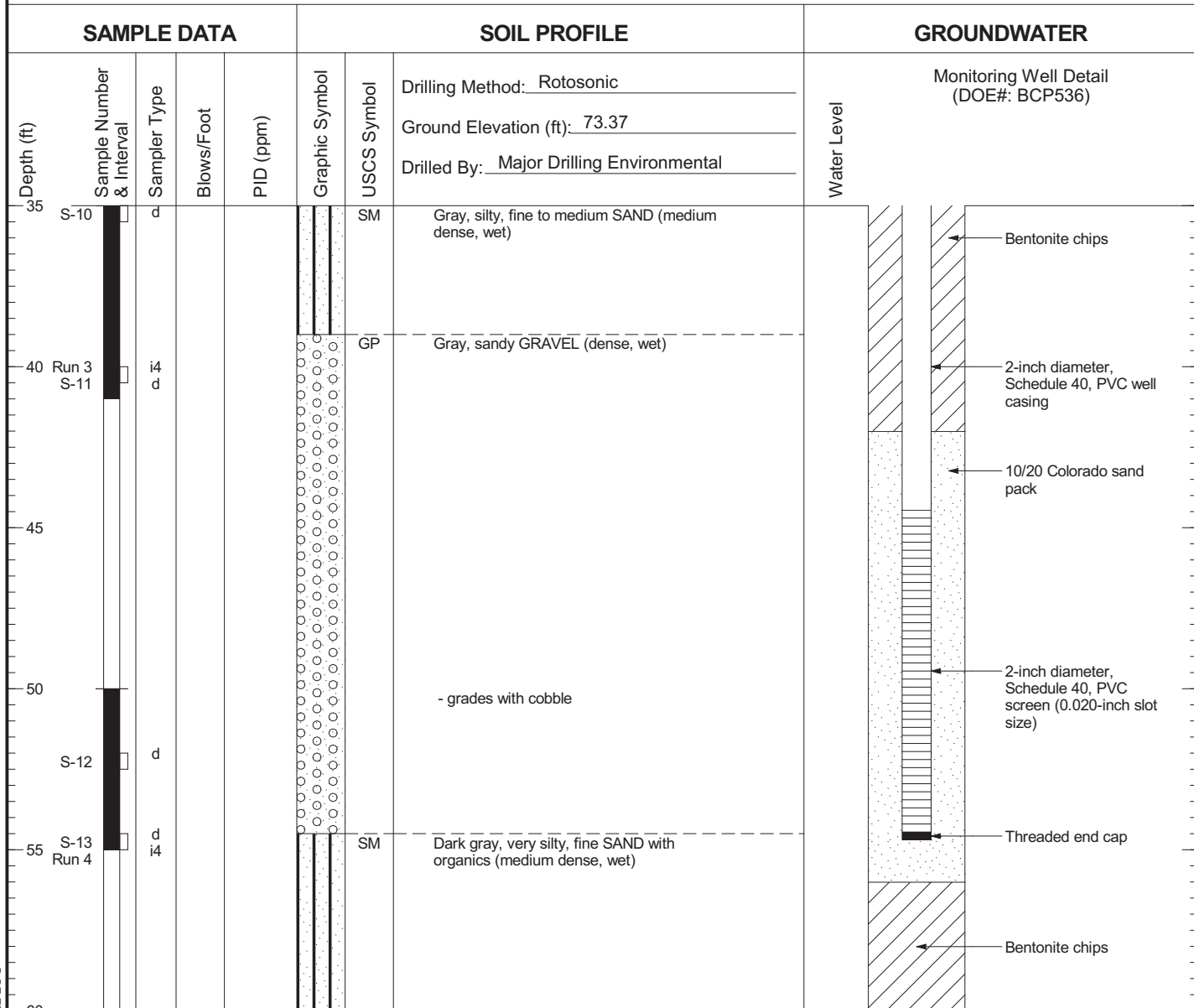


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW186

Figure  
C-155  
(1 of 2)

# AGW186



Boring Completed 04/28/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 04/28/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 73.00 ft.  
Total Depth of Monitoring Well = 54.7 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. DOE Unique Well Number: BCP536

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

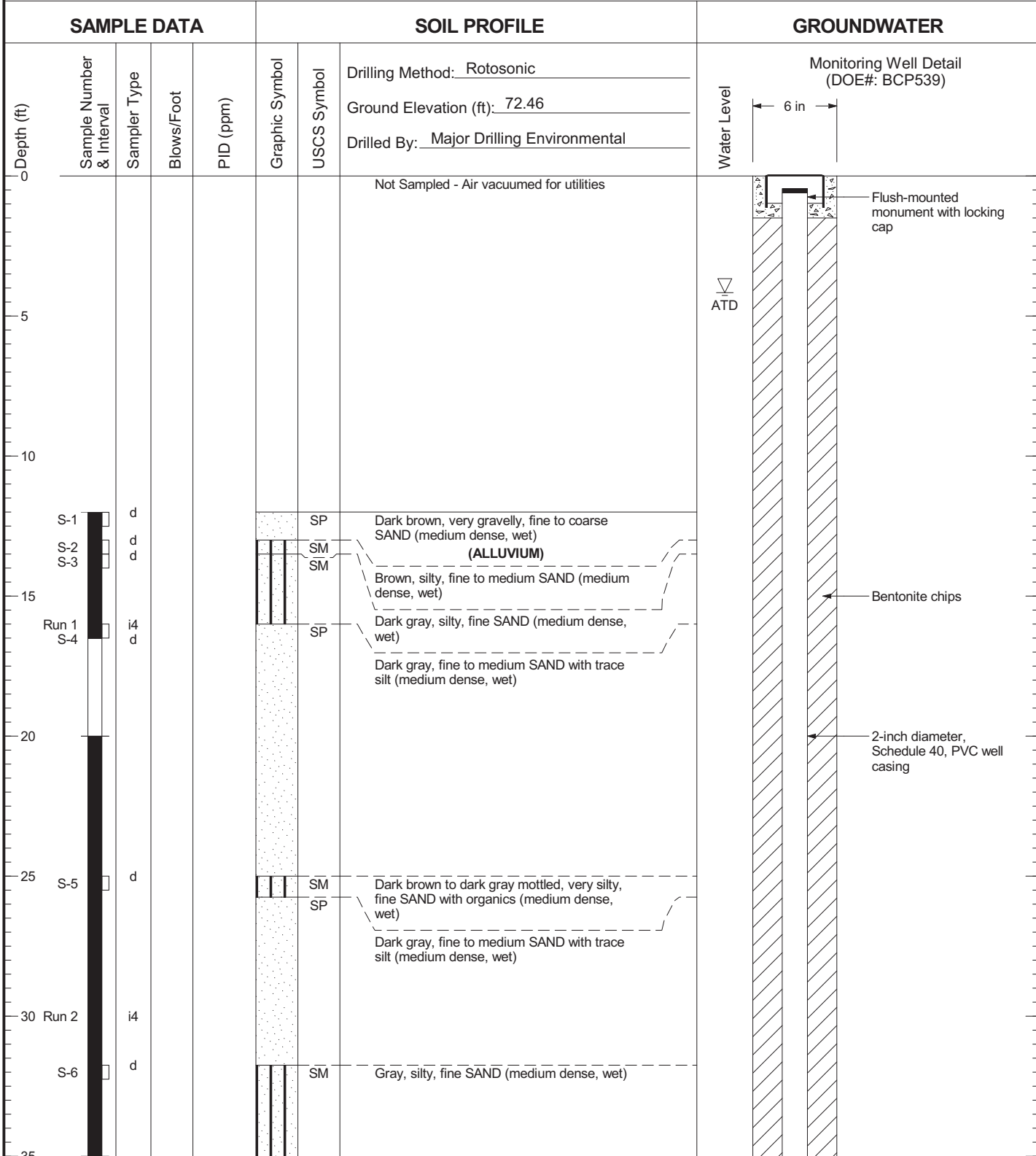


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW186

Figure  
C-155  
(2 of 2)

# AGW187



- 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. DOE Unique Well Number: BCP539

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

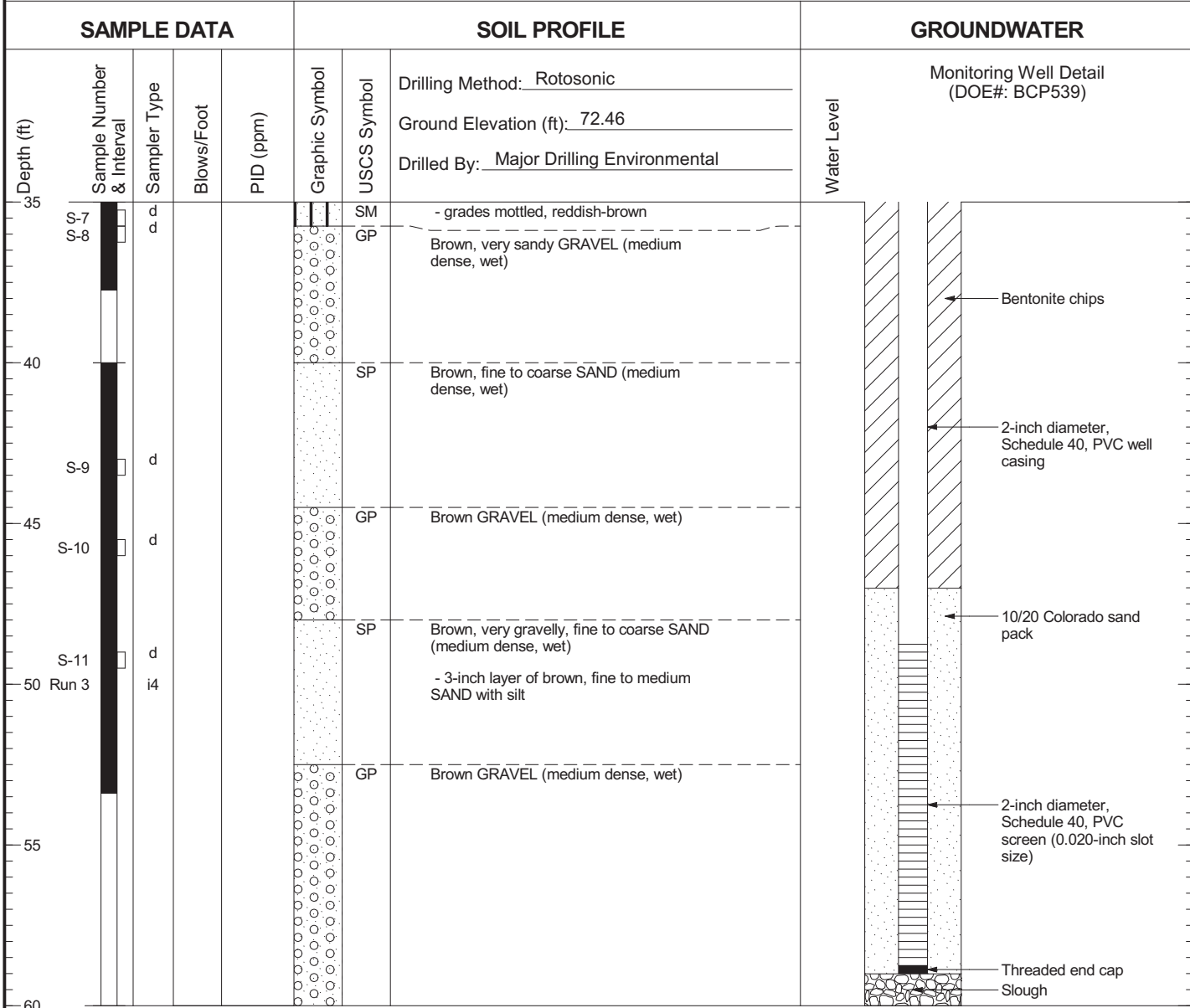


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW187

Figure  
C-156  
(1 of 2)

# AGW187



Boring Completed 05/03/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 05/03/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.21 ft.  
Total Depth of Monitoring Well = 59.0 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. DOE Unique Well Number: BCP539

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

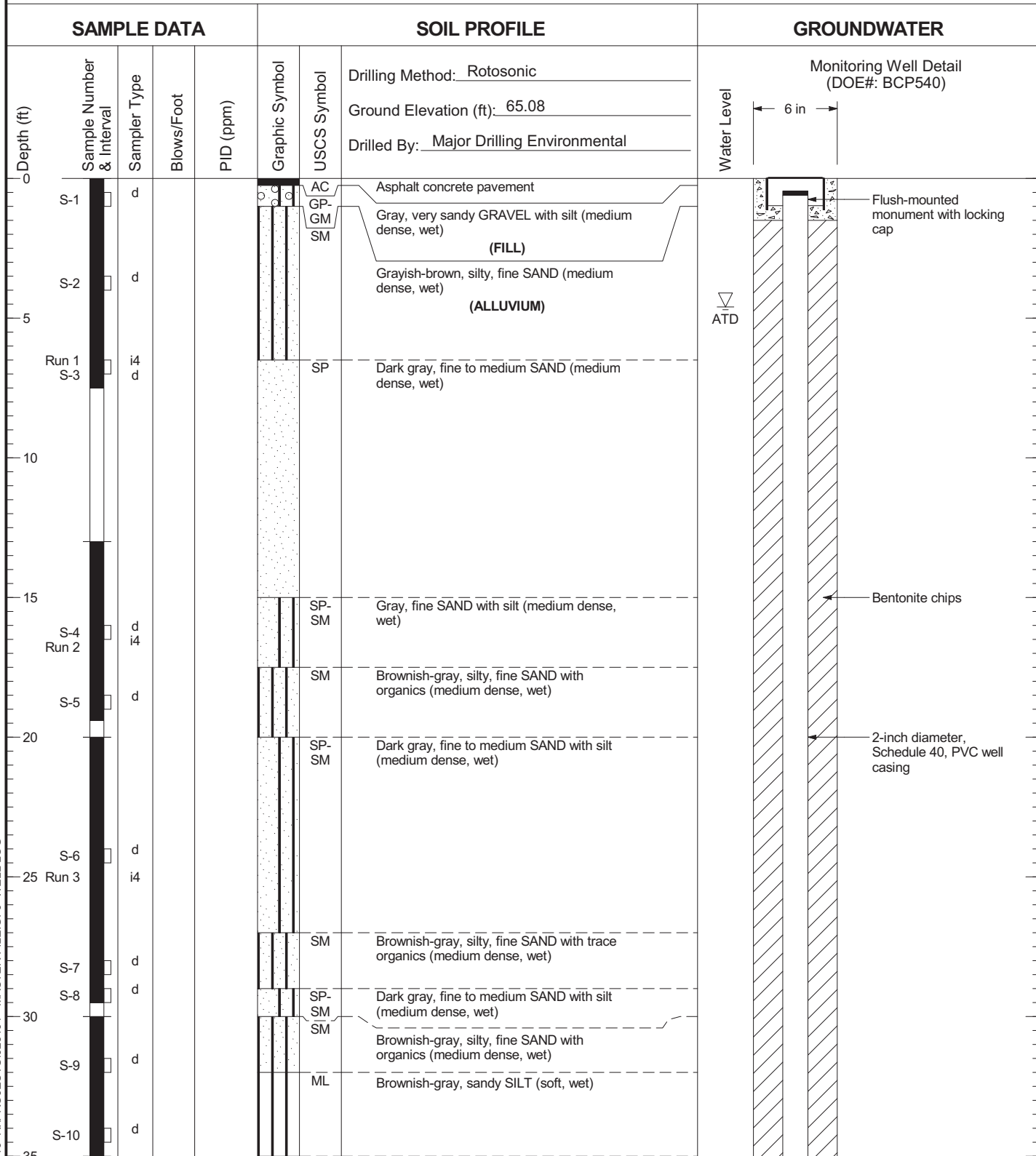


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW187

Figure  
C-156  
(2 of 2)

# AGW188



- 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. DOE Unique Well Number: BCP540

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW188

Figure  
C-157  
(1 of 2)

# AGW188

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		Water Level	Monitoring Well Detail (DOE#: BCP540)
							Ground Elevation (ft): <u>65.08</u>			
35	Run 4 S-11	i4 d			[Vertical lines]	SM	Brownish-gray, silty, fine SAND (medium dense, wet)		<p style="font-size: small;">Bentonite chips</p> <p style="font-size: small;">2-inch diameter, Schedule 40, PVC well casing</p> <p style="font-size: small;">10/20 Colorado sand pack</p> <p style="font-size: small;">2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)</p> <p style="font-size: small;">Threaded end cap</p> <p style="font-size: small;">Slough</p>	
	S-12	d			[Vertical lines]		- grades very silty			
40					[Vertical lines]	SM	Dark gray, very silty, fine SAND (medium dense, wet)			
	S-13	d			[Circles]	GP	Gray GRAVEL with sand (medium dense, wet)			
	S-14	i4 d			[Circles]	GP	Brown, very sandy GRAVEL (medium dense, wet)			
45	Run 5 S-15	i4 d			[Circles]		- grades with sand - grades sandy			
	S-16	d			[Dotted]	SP	Dark gray, fine to coarse SAND (medium dense, wet)			
	S-17	d			[Dotted]		- grades fine to coarse SAND			
50					[Circles]	GP	Brown, sandy GRAVEL (medium dense, wet)			
55	Run 6 S-17	i4 d			[Circles]					
60					[Circles]					

Boring Completed 05/04/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 05/04/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 64.90 ft.  
Total Depth of Monitoring Well = 59.4 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. DOE Unique Well Number: BCP540

025164 - 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

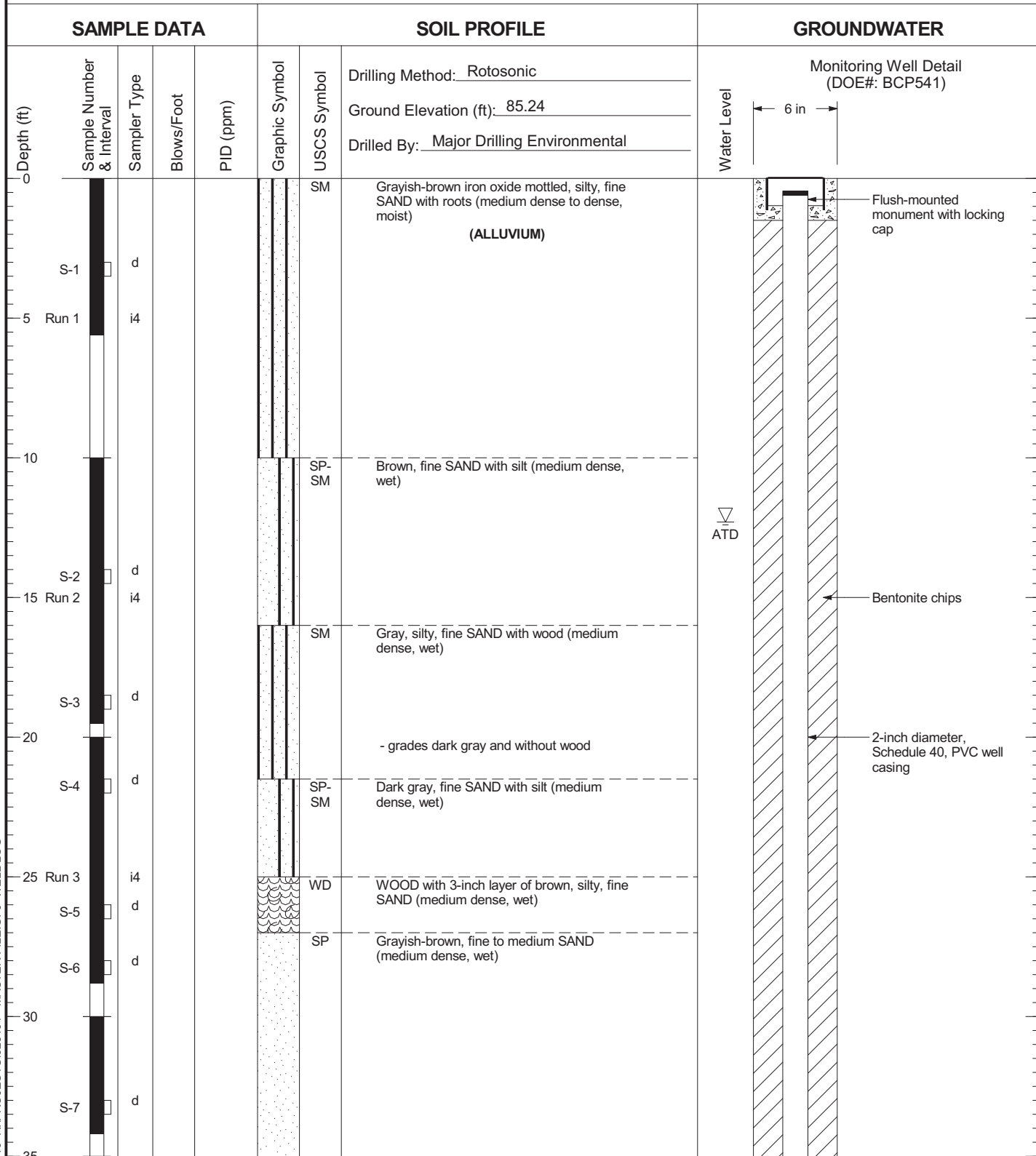


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW188

Figure  
C-157  
(2 of 2)

# AGW189



- 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. DOE Unique Well Number: BCP541

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



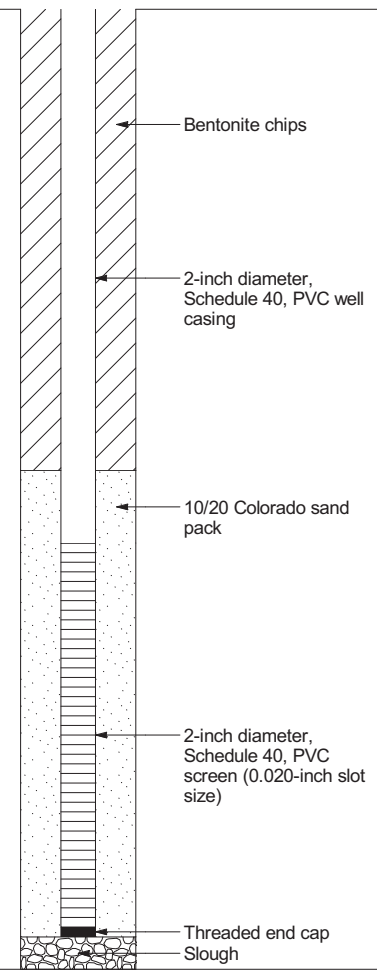
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Auburn, Washington

Log of Monitoring Well AGW189

Figure  
C-158  
(1 of 2)

# AGW189

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BCP541)
							Ground Elevation (ft): <u>85.24</u>		
							Drilled By: <u>Major Drilling Environmental</u>		
	35	Run 4	i4			SP	Grayish-brown, fine to medium SAND (medium dense, wet)		
	40	S-8	d			GP	Gray, very sandy GRAVEL (dense, wet)		
42	S-9	d			GP	- grades brown and without sand			
44	S-10	d			SP	Brown, gravelly, fine to coarse SAND (dense, wet)			
45	Run 5	i4							
50	S-11	d			GP	Brown GRAVEL with trace sand (dense, wet)			
55	Run 6	i4							
56	S-12	d					- grades sandy		
60									



Boring Completed 05/05/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 05/05/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 84.87 ft.  
Total Depth of Monitoring Well = 59.2 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. DOE Unique Well Number: BCP541

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



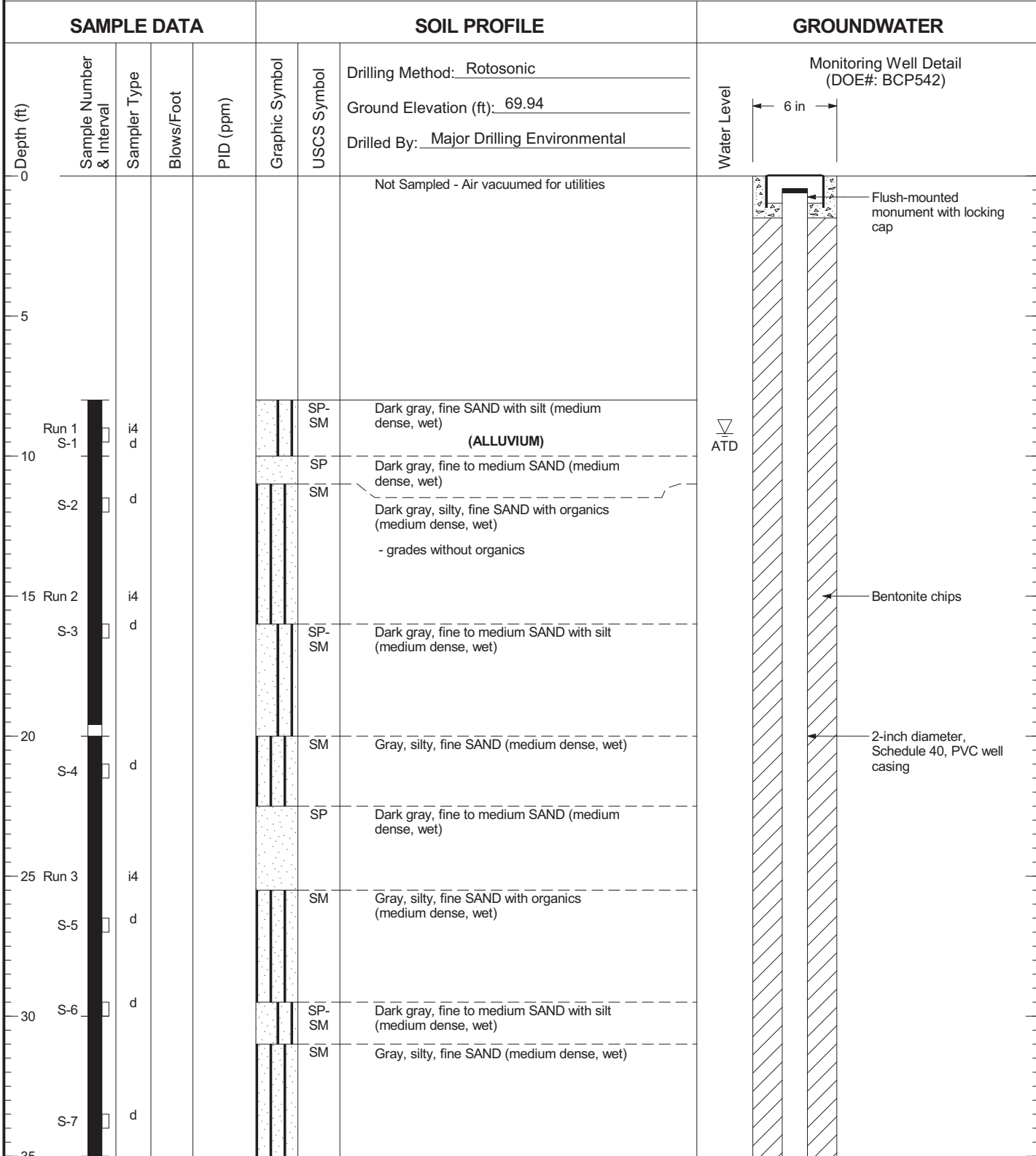
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW189

Figure  
C-158  
(2 of 2)



# AGW190



- 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. DOE Unique Well Number: BCP542

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW190

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		Water Level	Monitoring Well Detail (DOE#: BCP542)
							Ground Elevation (ft): <u>69.94</u>			
35	Run 4	i4				SM				
	S-8	d				SP-SM	Gray, fine to medium SAND with silt (medium dense, wet) - grades brown			Bentonite chips
	S-9	d				GP	Brown, sandy GRAVEL (medium dense, wet)			
40						SP	Dark gray, fine to medium SAND (medium dense, wet)			
	S-10	d				GP-GM	Gray, very sandy GRAVEL with silt (dense, wet) - grades brown and with trace cobble			2-inch diameter, Schedule 40, PVC well casing
	S-11	d				GP	Brown, sandy GRAVEL with trace cobble (dense, wet)			
45	Run 5	i4								
						SP	Dark gray, fine to medium SAND (medium dense, wet)			10/20 Colorado sand pack
	S-12	d				GP	Grayish-brown, very sandy GRAVEL (medium dense, wet)			
	S-13	d				SP	Brown, gravelly, fine to coarse SAND (medium dense, wet)			2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
	S-14	d				GP	Brown GRAVEL with sand and trace cobble (medium dense, wet)			
55	Run 6	i4								
	S-15	d				SP	Brown iron oxide mottled, fine to coarse SAND with pockets of silt and trace gravel (medium dense, wet)			Threaded end cap
60										Slough

Boring Completed 05/06/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 05/06/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 69.68 ft.  
Total Depth of Monitoring Well = 59.0 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. DOE Unique Well Number: BCP542

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

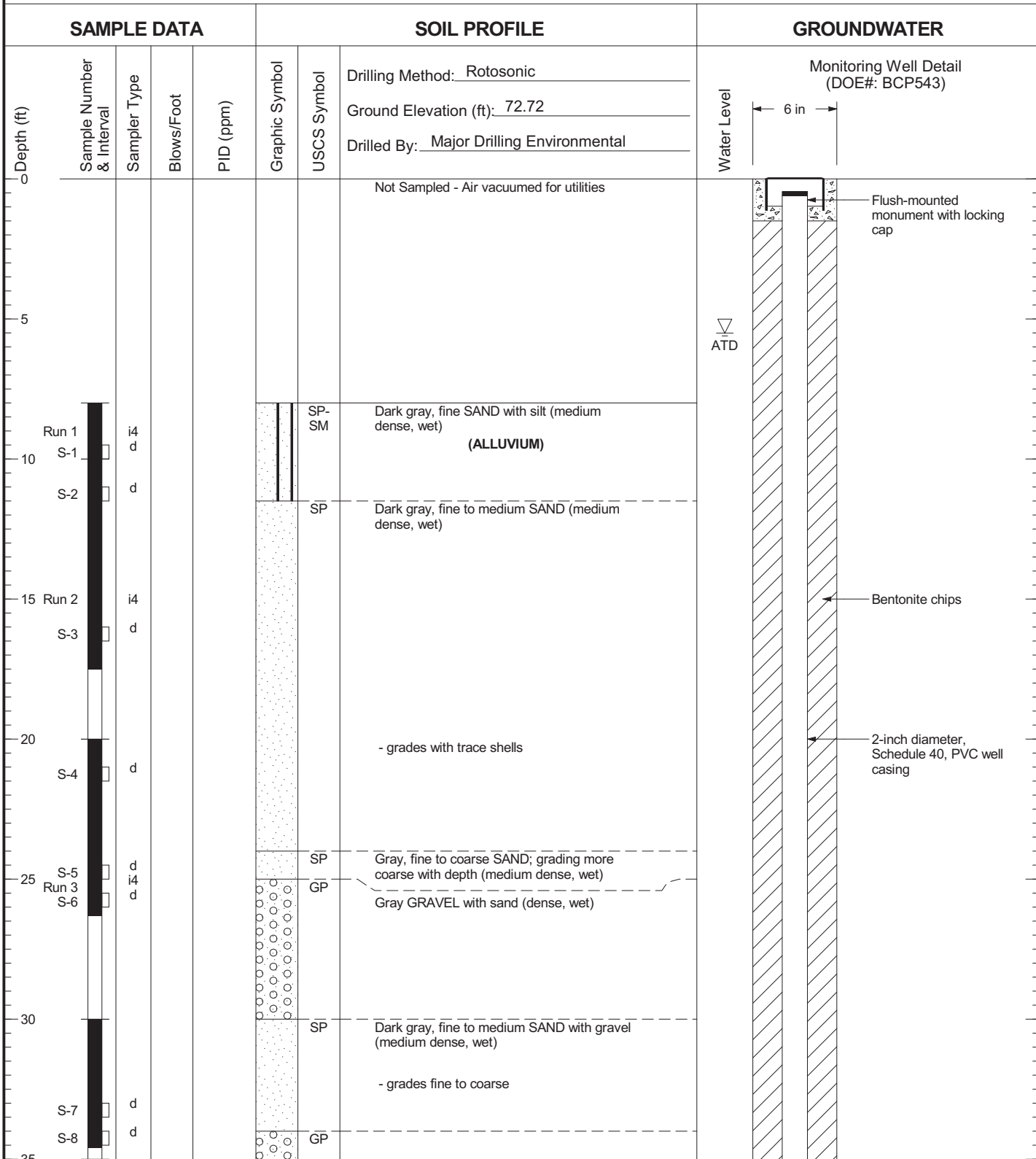


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW190

Figure  
C-159  
(2 of 2)

# AGW191

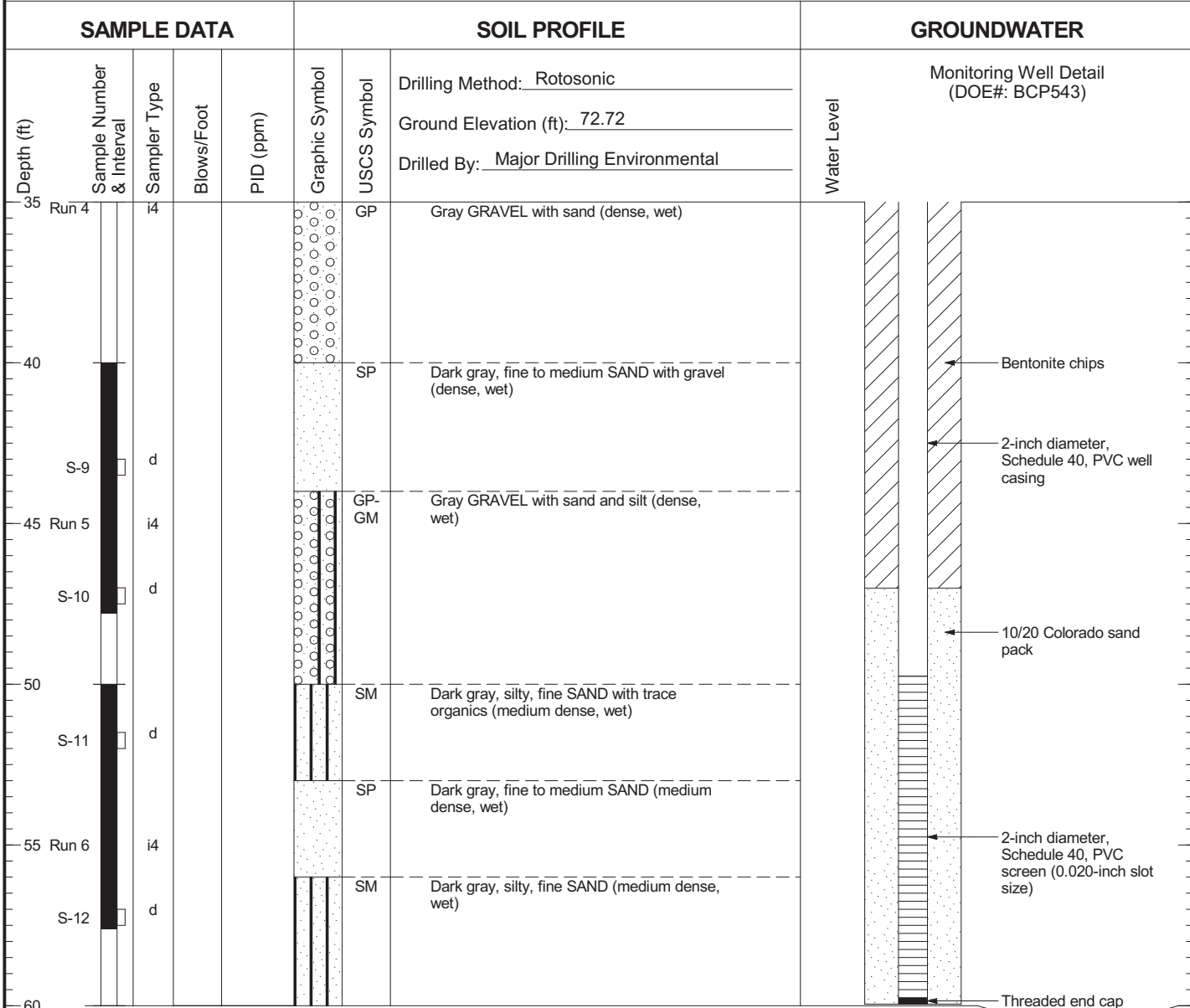


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCP543

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW191



Boring Completed 08/29/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 08/29/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.30 ft.  
Total Depth of Monitoring Well = 60.0 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. DOE Unique Well Number: BCP543

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

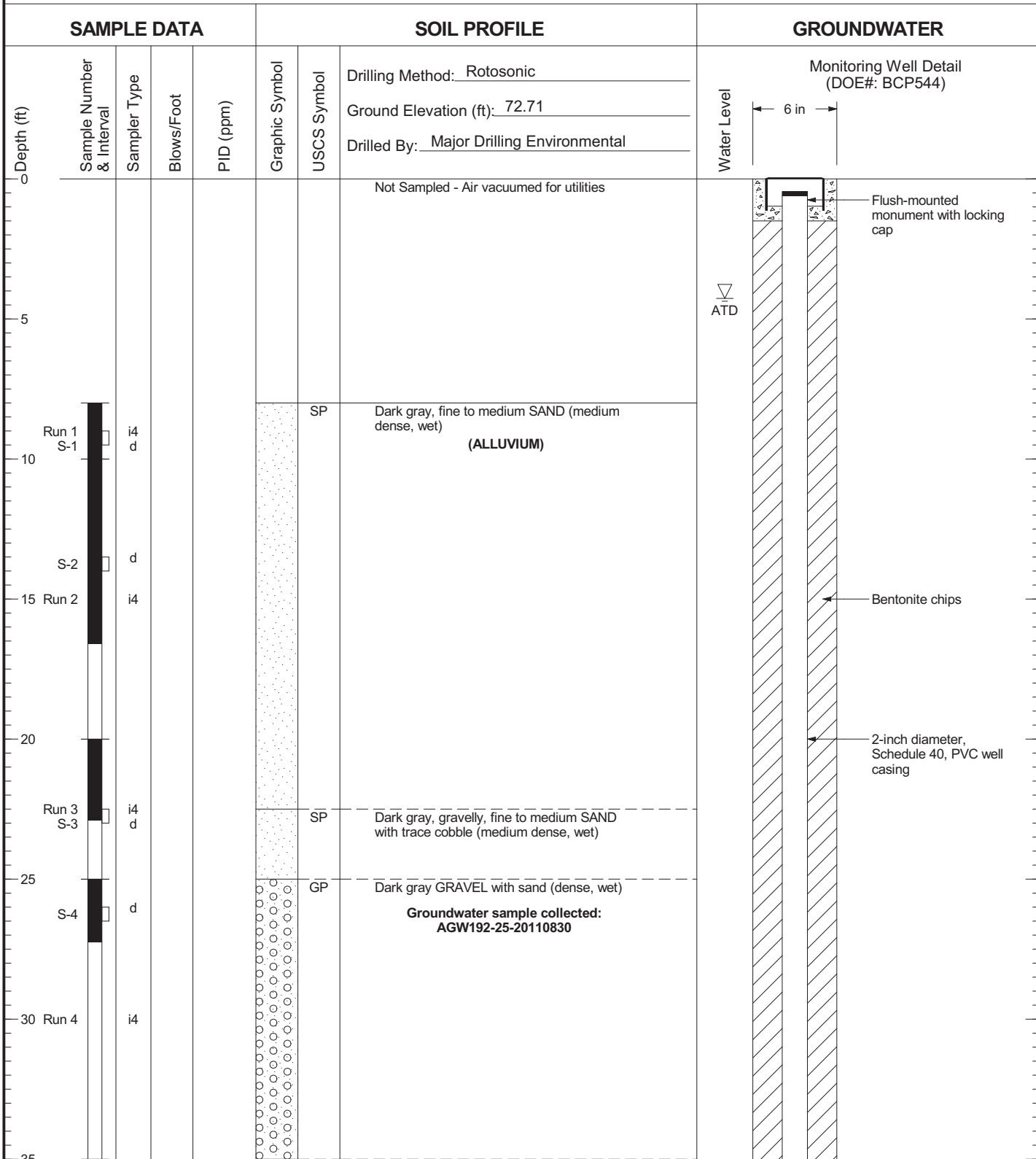


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW191

Figure  
C-160  
(2 of 2)

# AGW192



- 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. DOE Unique Well Number: BCP544

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

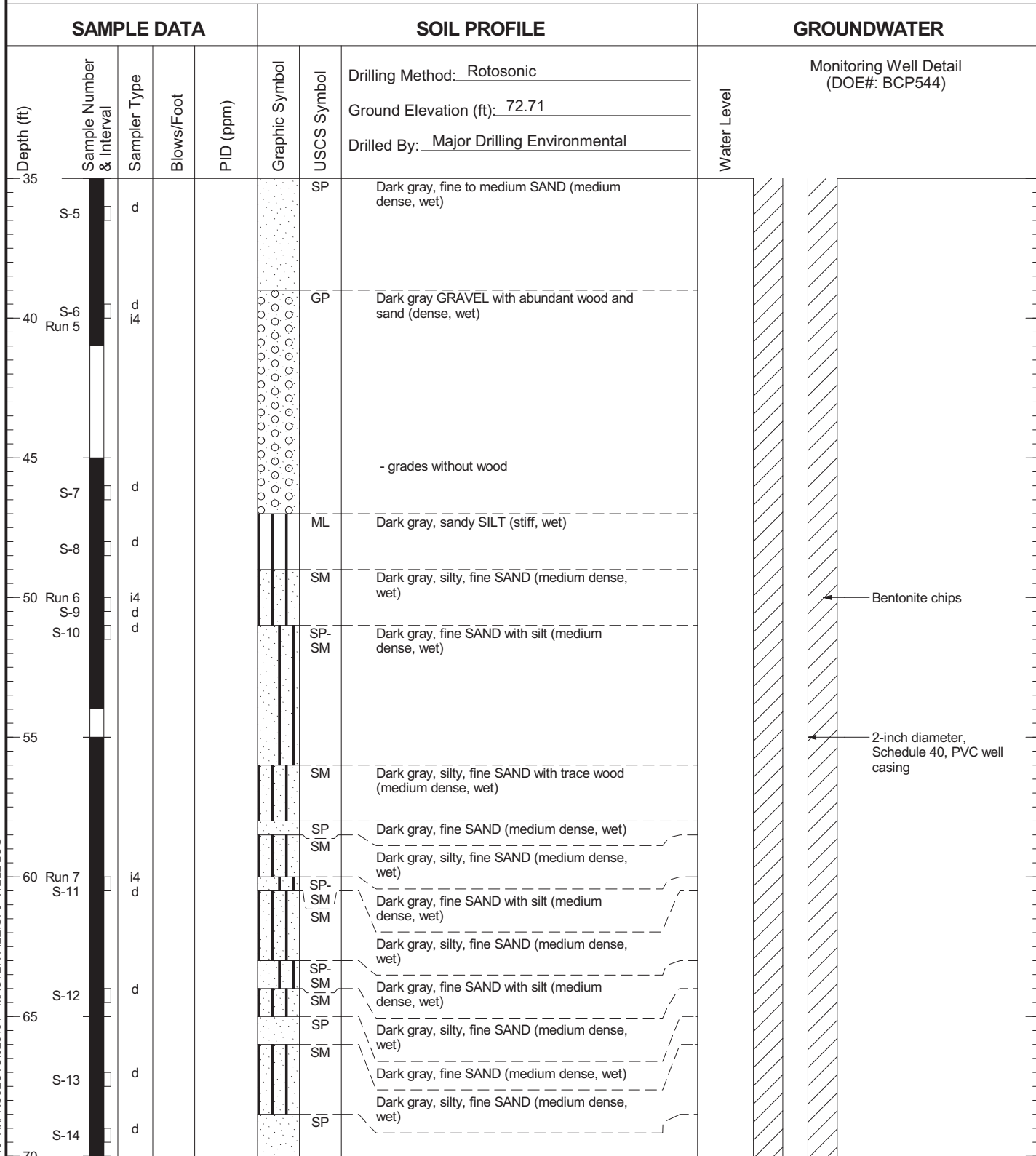


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW192

Figure  
C-161  
(1 of 3)

# AGW192



- 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. DOE Unique Well Number: BCP544

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

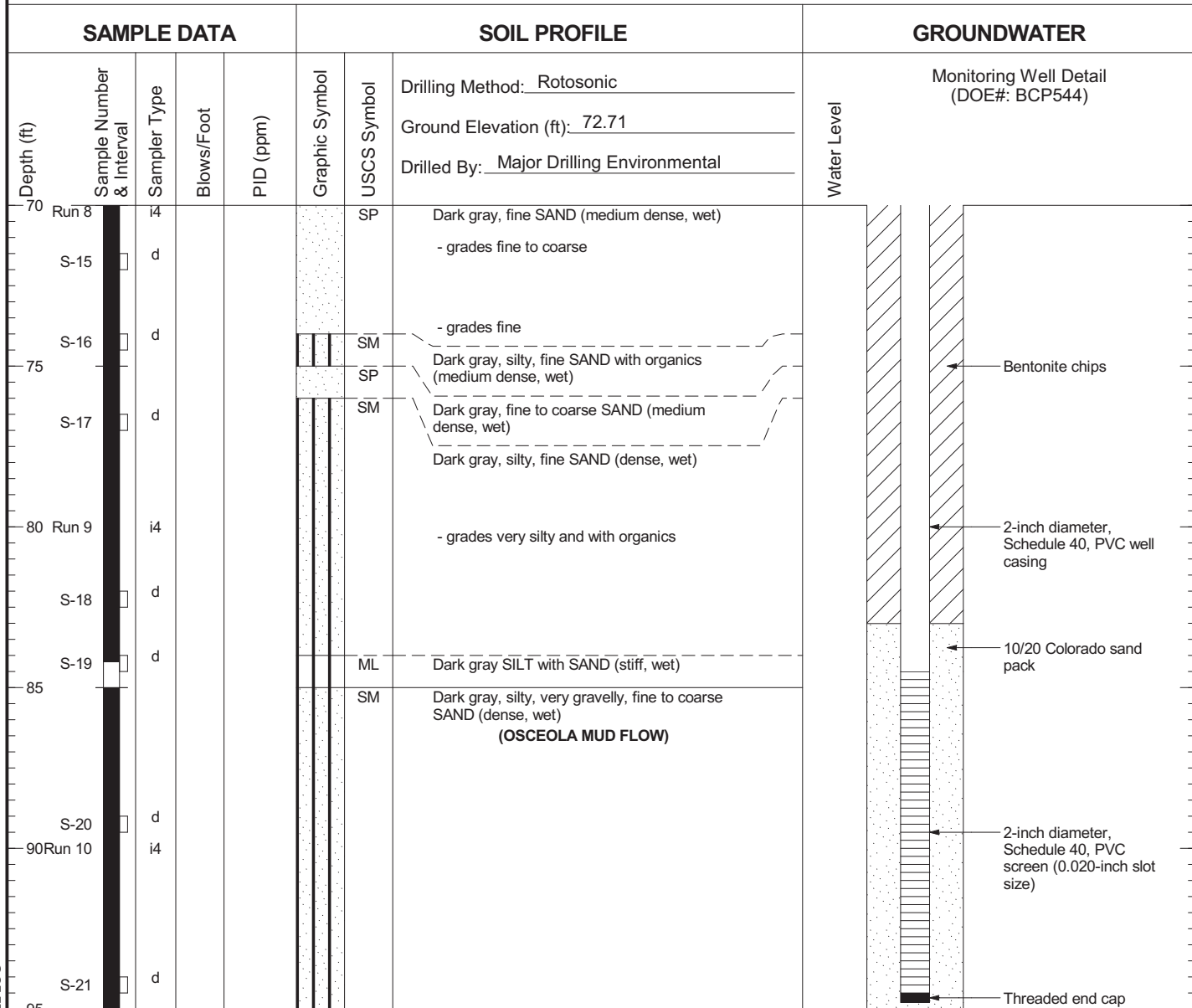


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW192

Figure  
C-161  
(2 of 3)

# AGW192



Boring Completed 08/30/11  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 08/30/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.39 ft.  
Total Depth of Monitoring Well = 94.8 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. DOE Unique Well Number: BCP544

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

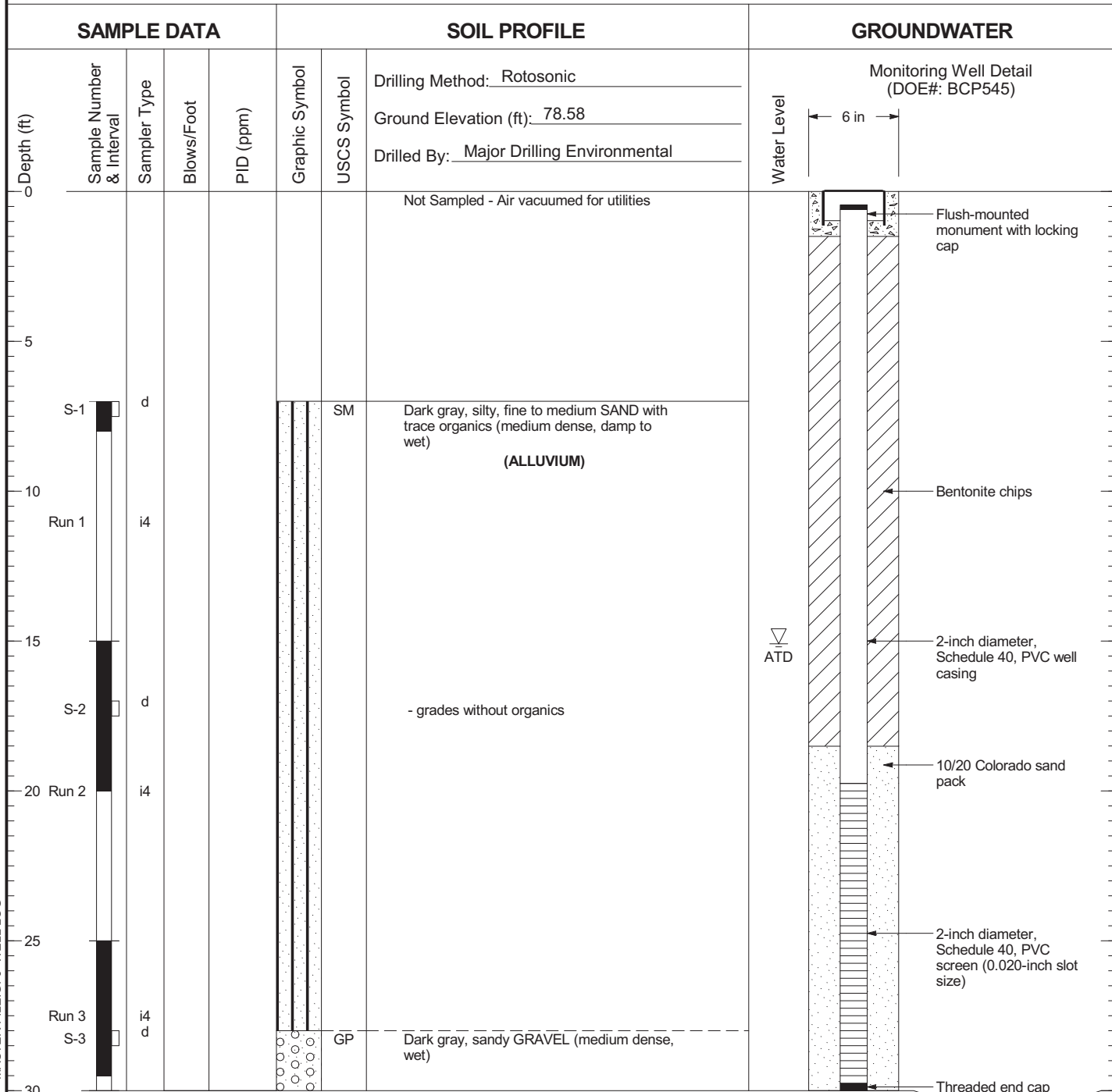


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW192

Figure  
C-161  
(3 of 3)

# AGW193



Boring Completed 08/31/11  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 08/31/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.33 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BCP545

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



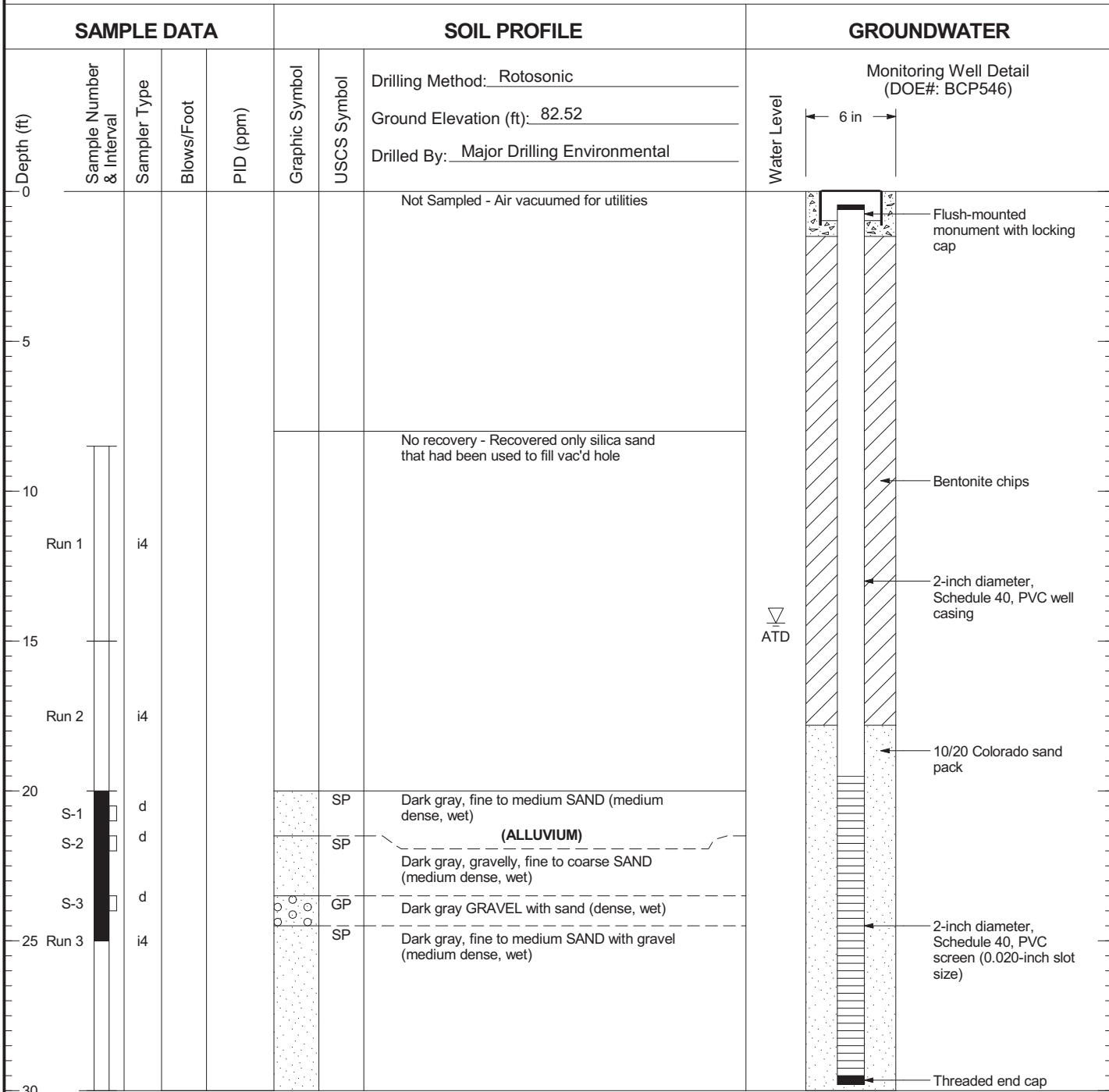
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW193

Figure  
C-162



# AGW194



Boring Completed 09/01/11  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 09/01/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 82.29 ft.  
Total Depth of Monitoring Well = 29.8 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. DOE Unique Well Number: BCP546

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

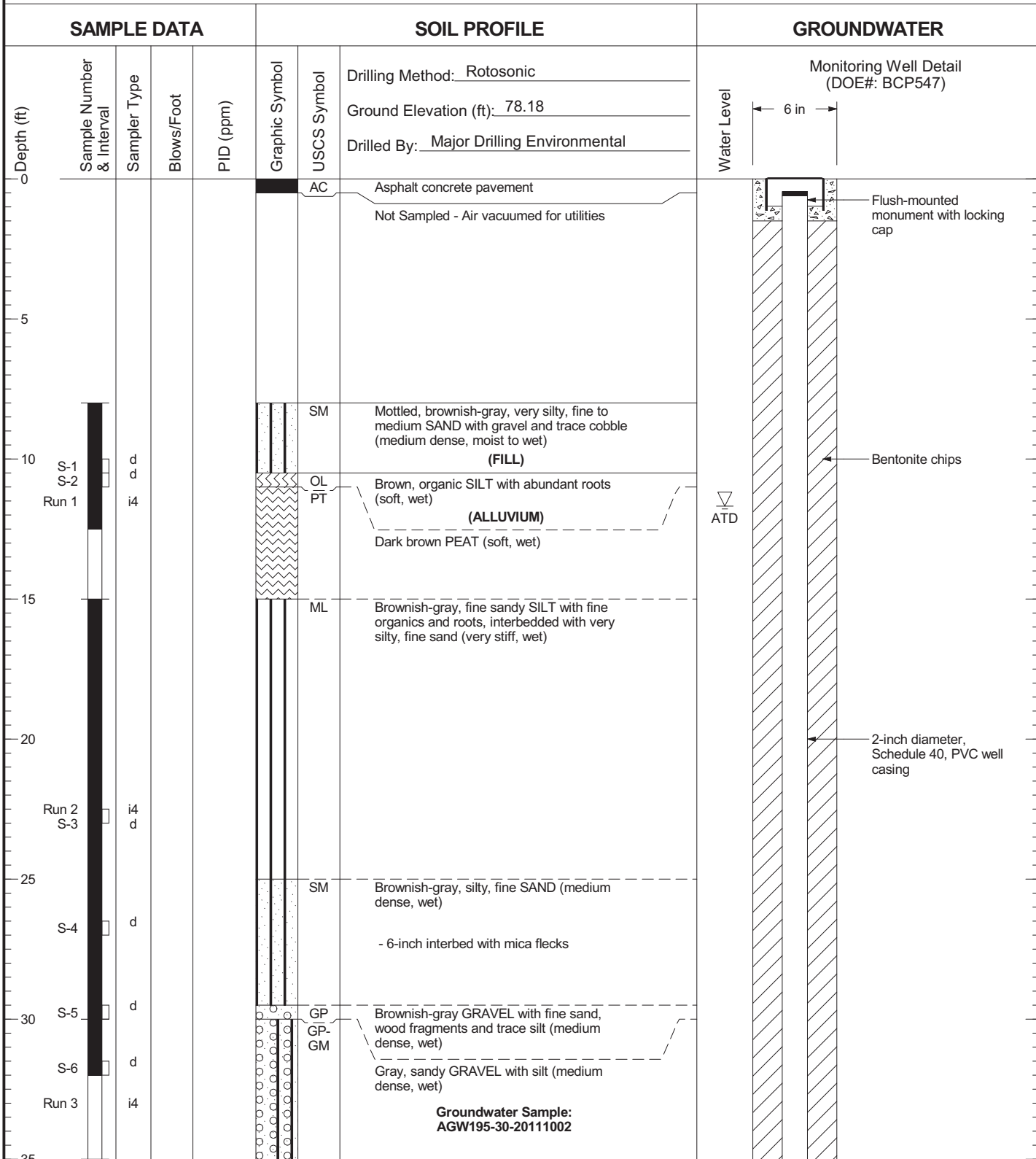


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW194

Figure  
C-163

# AGW195



- 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. DOE Unique Well Number: BCP547

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW195

Figure  
C-164  
(1 of 3)

# AGW195

SAMPLE DATA		SOIL PROFILE				GROUNDWATER					
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Description	Water Level	Monitoring Well Detail (DOE#: BCP547)		
Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>78.18</u> Drilled By: <u>Major Drilling Environmental</u>											
35						SP	Gray, medium SAND (medium dense, wet)				
	S-7	d				GP	Gray, sandy GRAVEL (medium dense, wet)				
						SP	Dark gray, medium SAND with wood (medium dense, wet)				
	S-8 Run 4	d i4				SP-SM	Gray, fine to medium SAND with silt and wood (medium dense, wet)				Bentonite chips
						SP	Brownish-gray, fine to medium SAND (medium dense, wet)				
	S-9	d				GP	Dark gray, sandy GRAVEL (medium dense, wet)				
	S-10	d				SM	Dark brownish-gray, 1 to 4-inch interbeds of silty, fine SAND and very silty, fine SAND with organics (medium dense, wet)				
						ML	Dark brownish-gray SILT (very stiff, wet)				2-inch diameter, Schedule 40, PVC well casing
						SM	Brownish-gray, silty to very silty, fine SAND (medium dense, wet)				
	S-11	d				ML	Brownish-gray, very sandy SILT (very stiff, wet)				
						SM	Brownish-gray, silty, fine SAND interbedded with fine SAND with silt (medium dense, wet)				
	Run 5	i4				GP					
	S-12	d									
	S-13	d				GP					
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. DOE Unique Well Number: BCP547

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

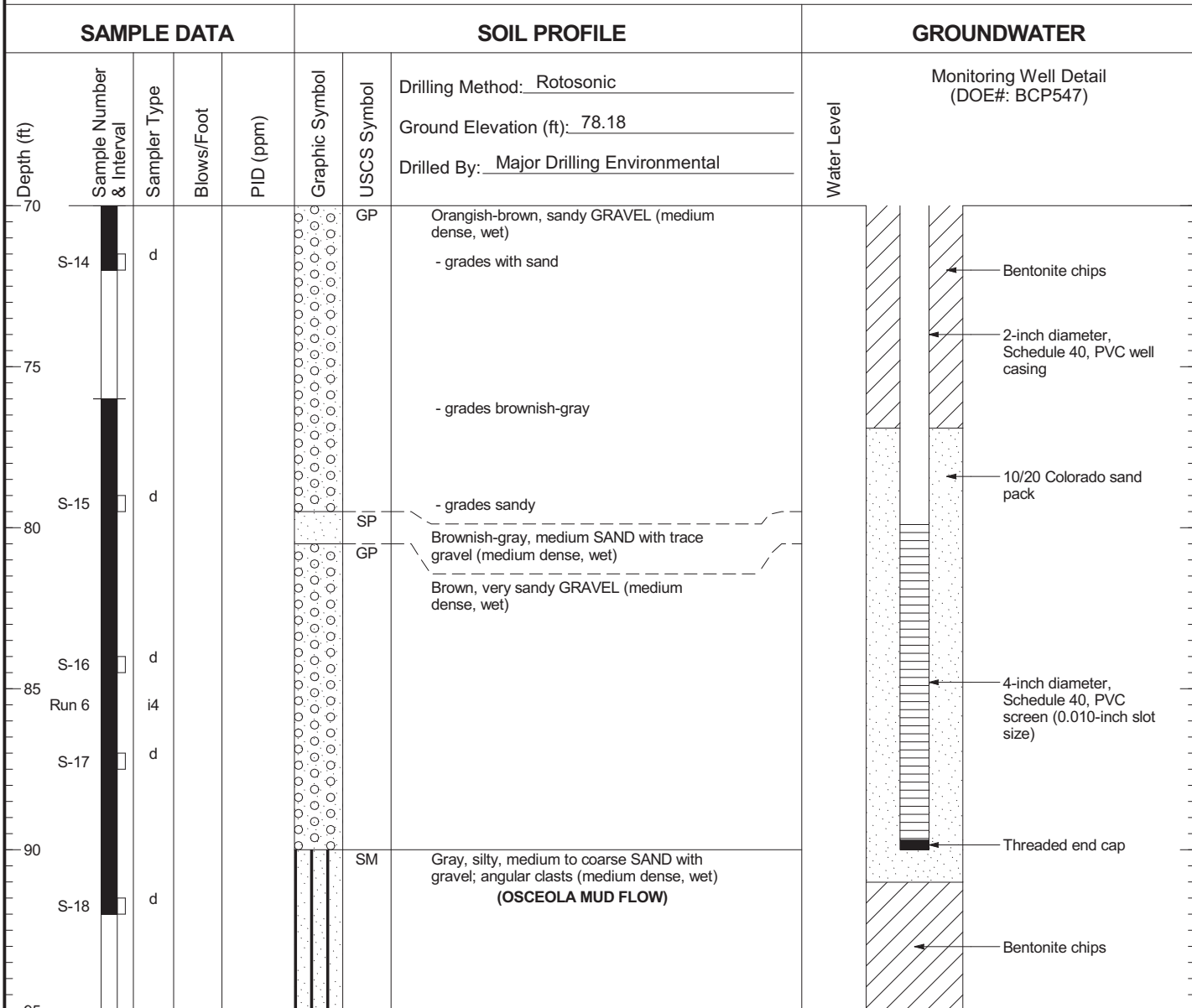


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW195

Figure  
C-164  
(2 of 3)

# AGW195



Boring Completed 10/03/11  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/03/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.88 ft.  
Total Depth of Monitoring Well = 90.0 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. DOE Unique Well Number: BCP547

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

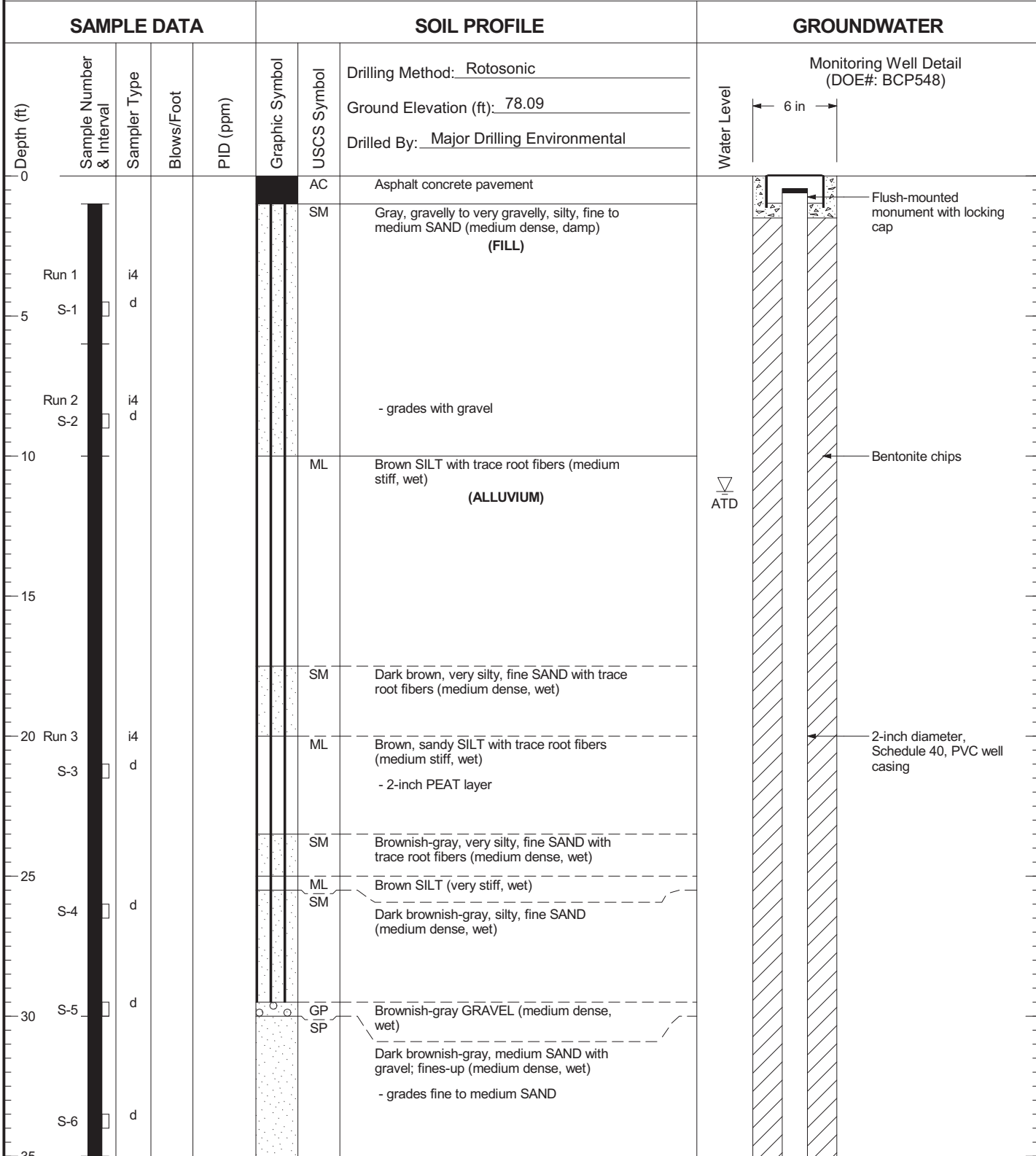


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW195

Figure  
C-164  
(3 of 3)

# AGW196



- 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. DOE Unique Well Number: BCP548

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

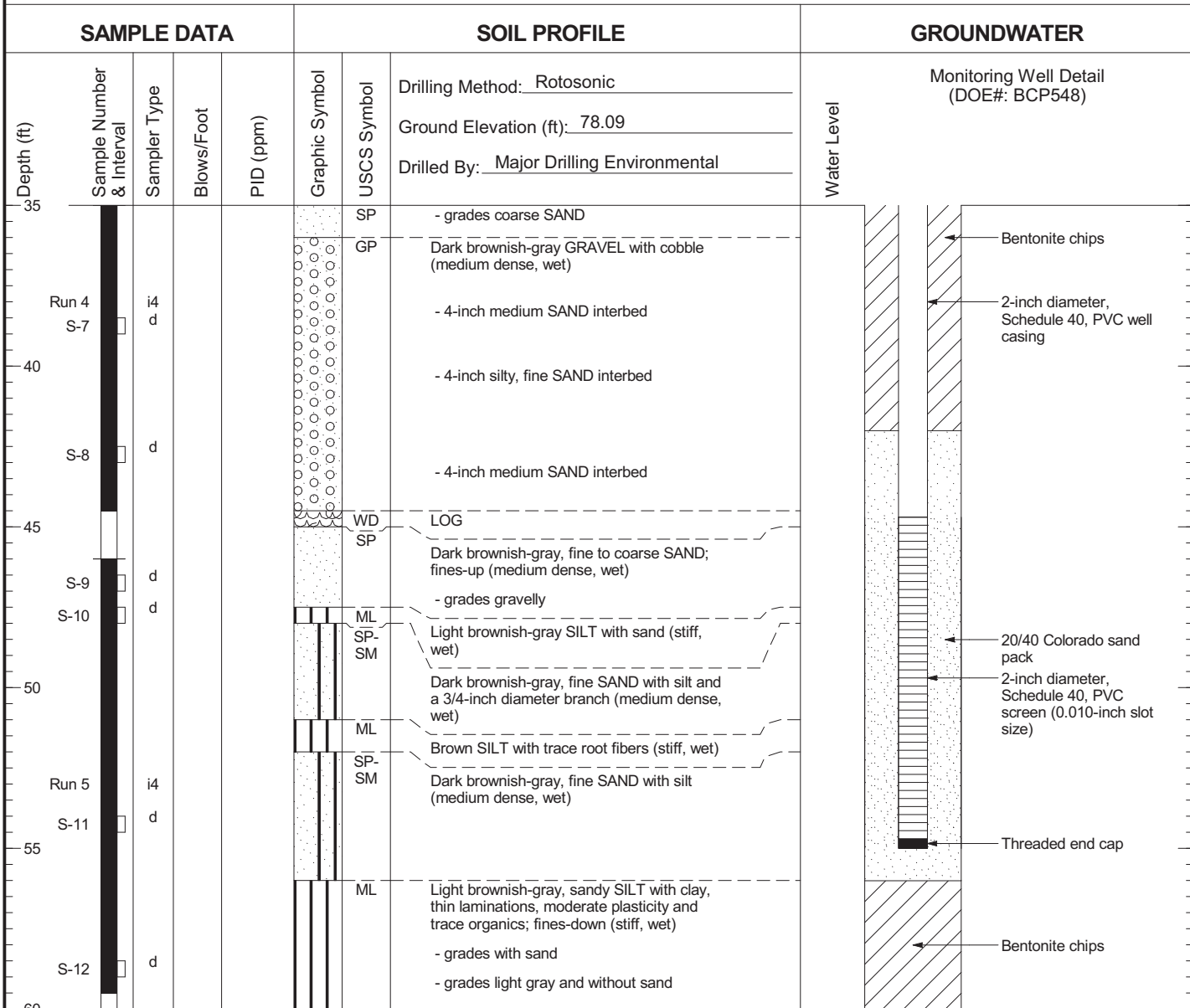


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW196

Figure  
C-165  
(1 of 2)

# AGW196



Boring Completed 10/03/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 10/04/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.79 ft.  
Total Depth of Monitoring Well = 55.0 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. DOE Unique Well Number: BCP548

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

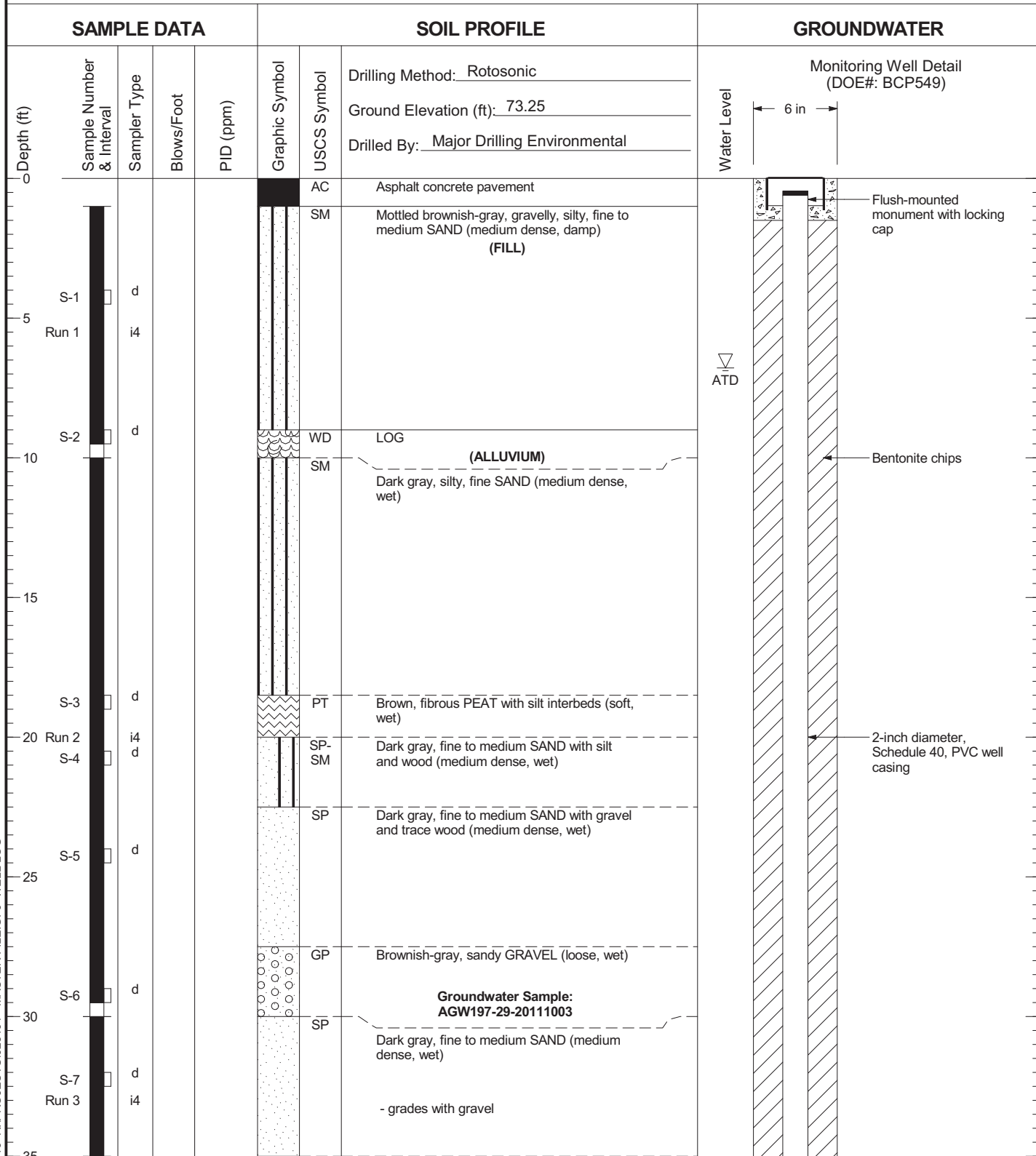


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW196

Figure  
C-165  
(2 of 2)

# AGW197



- 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. DOE Unique Well Number: BCP549

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

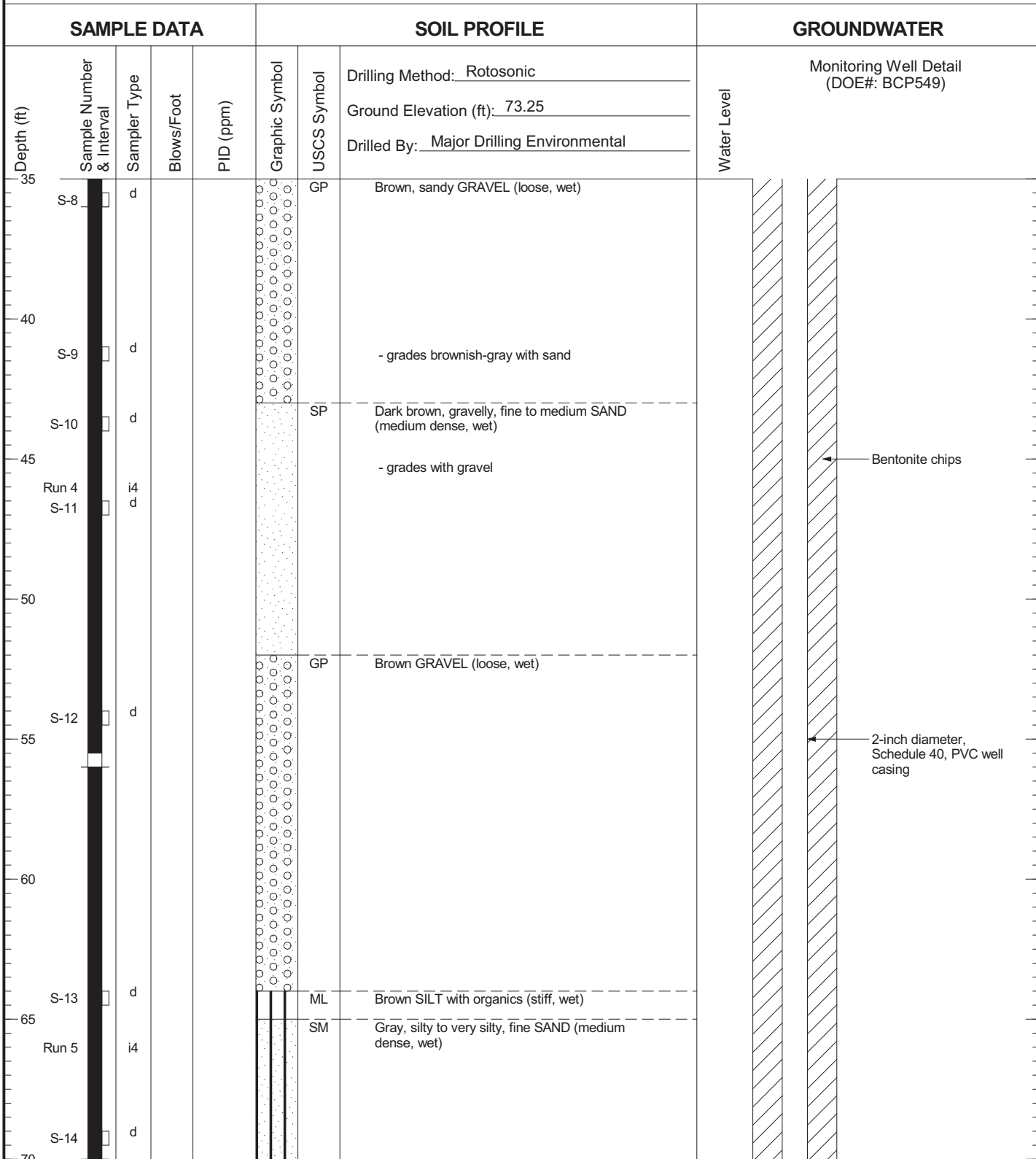


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Auburn, Washington

Log of Monitoring Well AGW197

Figure  
C-166  
(1 of 3)

# AGW197



- 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. DOE Unique Well Number: BCP549

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



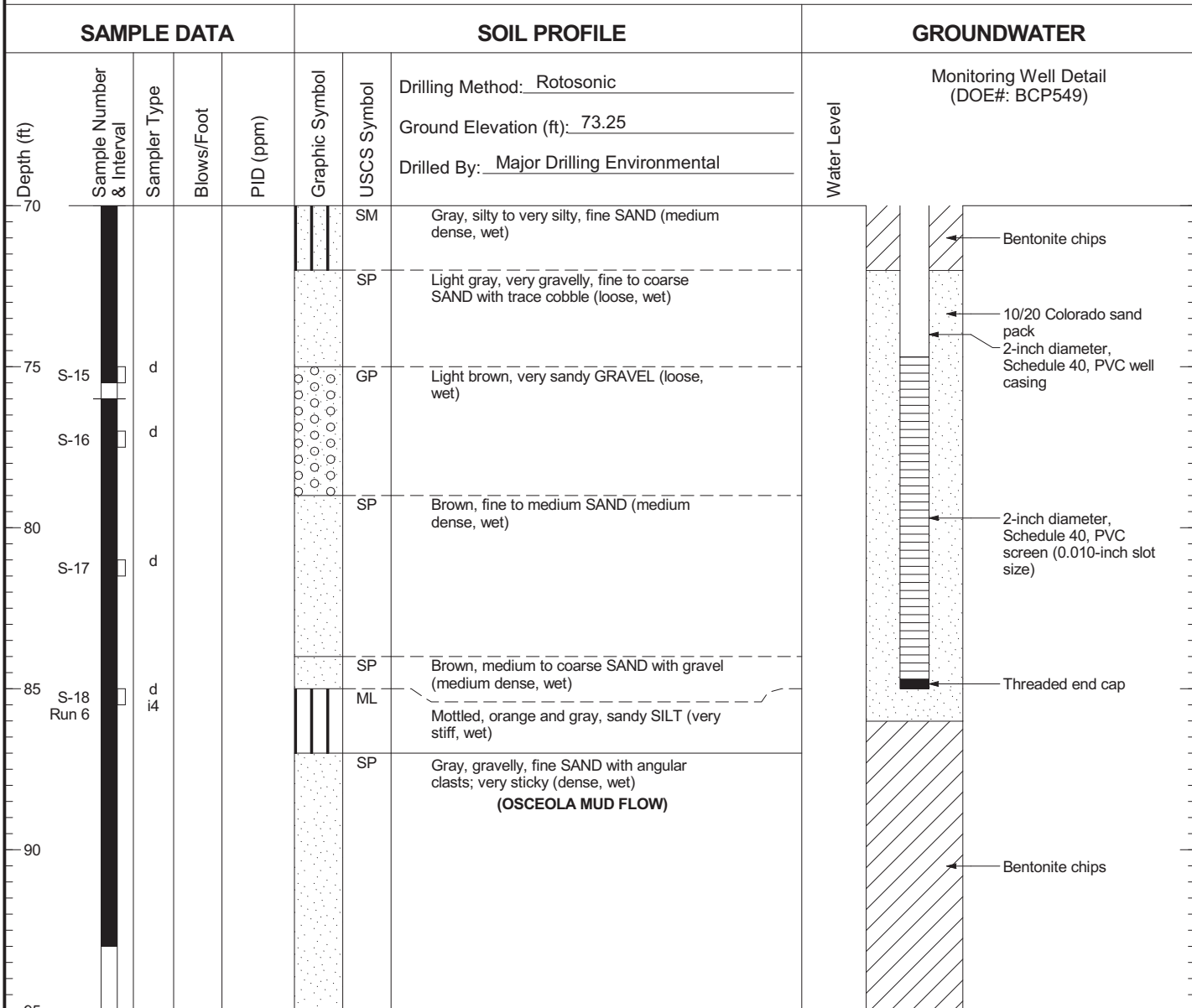
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW197

Figure  
C-166  
(2 of 3)



# AGW197



Boring Completed 10/04/11  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/05/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.94 ft.  
Total Depth of Monitoring Well = 85.0 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. DOE Unique Well Number: BCP549

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

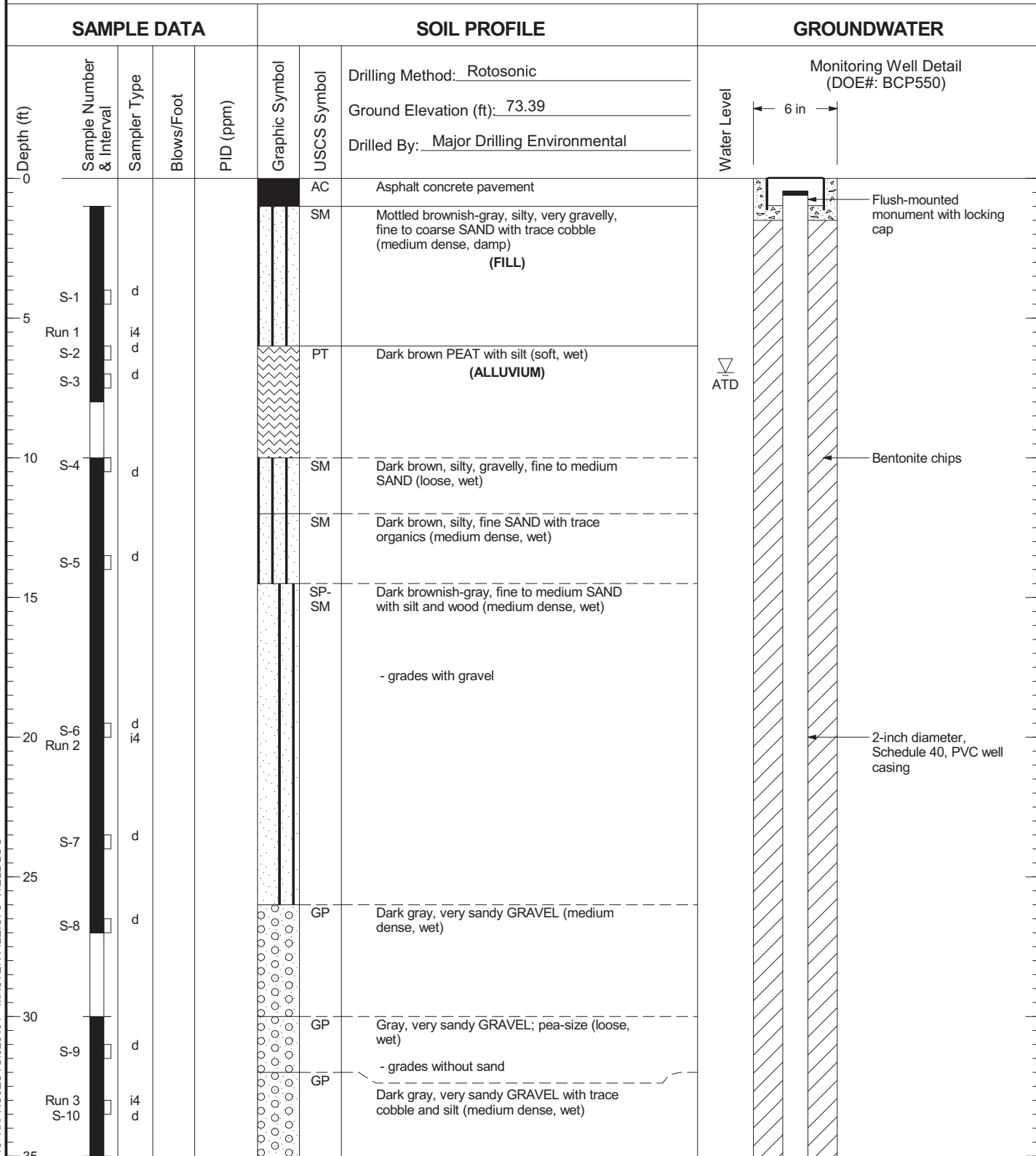


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Auburn, Washington

Log of Monitoring Well AGW197

Figure  
C-166  
(3 of 3)

# AGW198



- 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. DOE Unique Well Number: BCP550

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

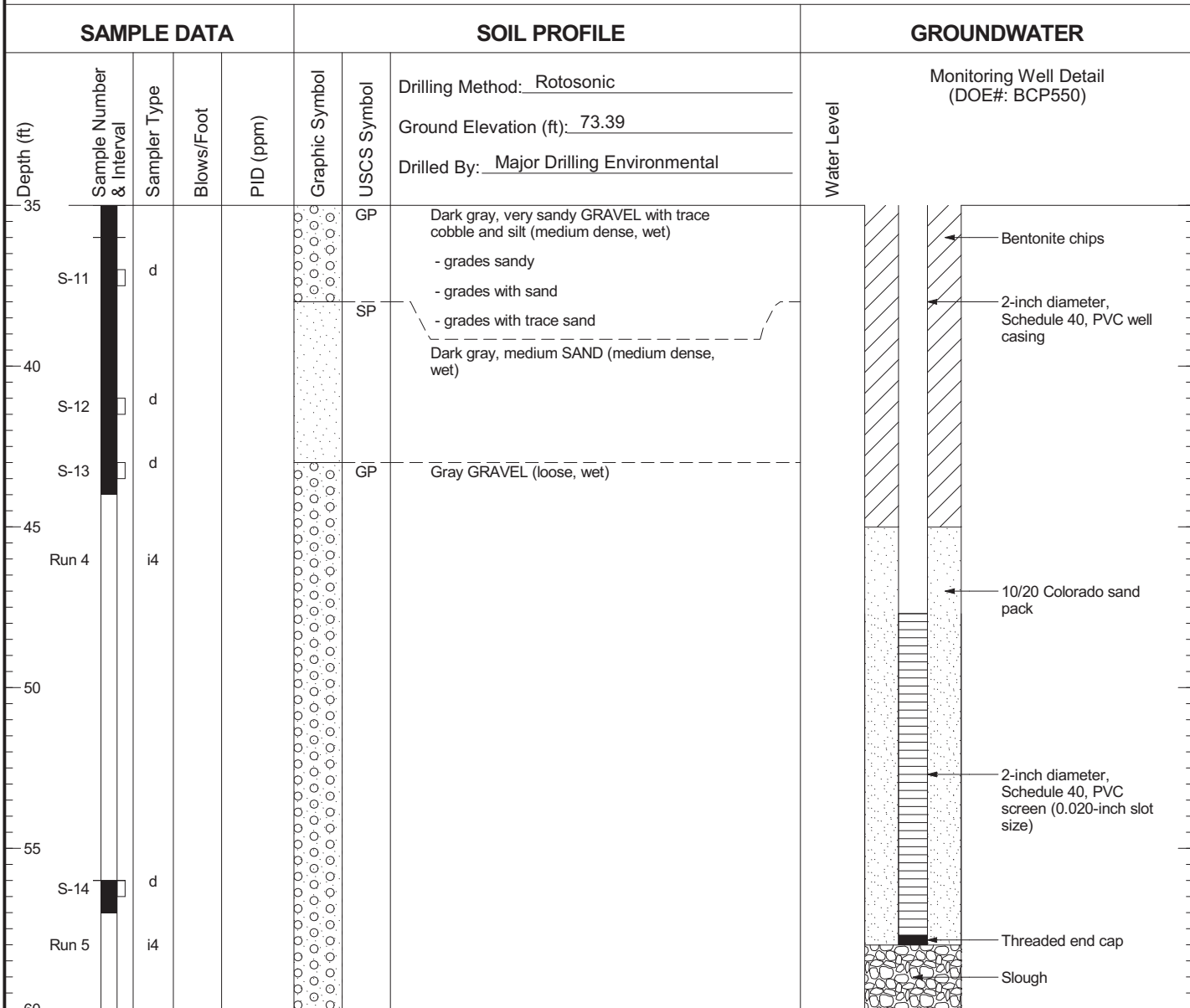


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Log of Monitoring Well AGW198

Figure  
C-167  
(1 of 2)

# AGW198



Boring Completed 10/05/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 10/05/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 73.10 ft.  
Total Depth of Monitoring Well = 58.0 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. DOE Unique Well Number: BCP550

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

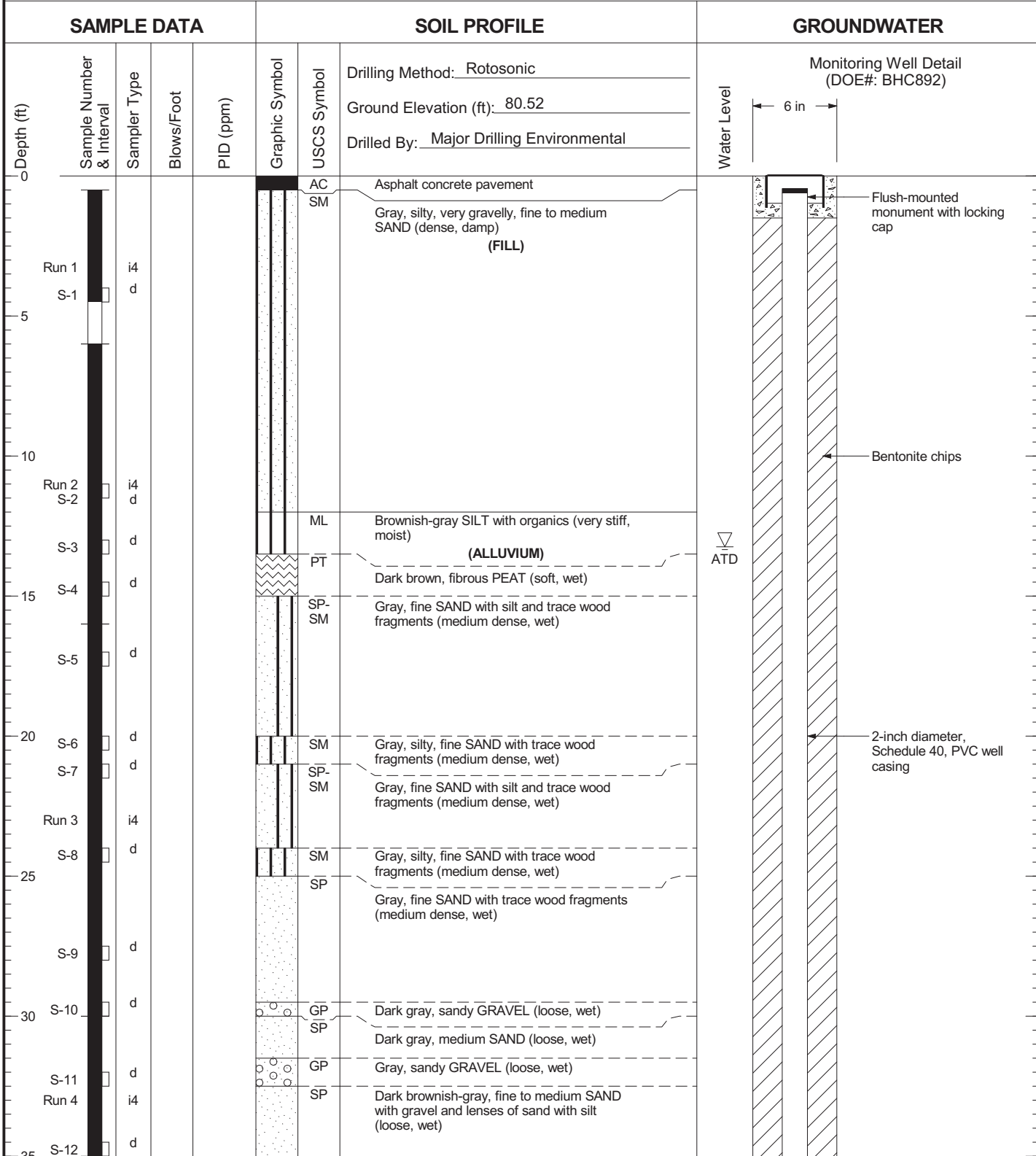


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW198

Figure  
C-167  
(2 of 2)

# AGW199



- 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. DOE Unique Well Number: BHC892

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW199

Figure  
C-168  
(1 of 3)

# AGW199

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>Rotosonic</u> Ground Elevation (ft): <u>80.52</u> Drilled By: <u>Major Drilling Environmental</u>		Monitoring Well Detail (DOE#: BHC892)
35					SP		
					GP	Gray GRAVEL with coarse sand (loose, wet) - grades sandy	
40	S-13	d			SP	Dark gray, fine to coarse SAND with gravel (loose, wet)	
	S-14	d			ML	Gray, sandy SILT (very stiff, wet)	
45	S-15	d			SM	Gray, silty, fine SAND (medium dense, wet)	
	Run 5 S-16	i4 d			GP	Orange GRAVEL with sand (loose, wet)  - grades brown	Bentonite chips
50					GP		
	S-17	d			GP		
55					GP		2-inch diameter, Schedule 40, PVC well casing
	S-18	d			GP		
60					SP	Dark gray, medium SAND (loose, wet)	
	S-19	d			GP	Orange GRAVEL with sand (loose, wet)	
65					GP		
	Run 6	i4			GP		
70	S-20	d			GP		

- 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. DOE Unique Well Number: BHC892

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

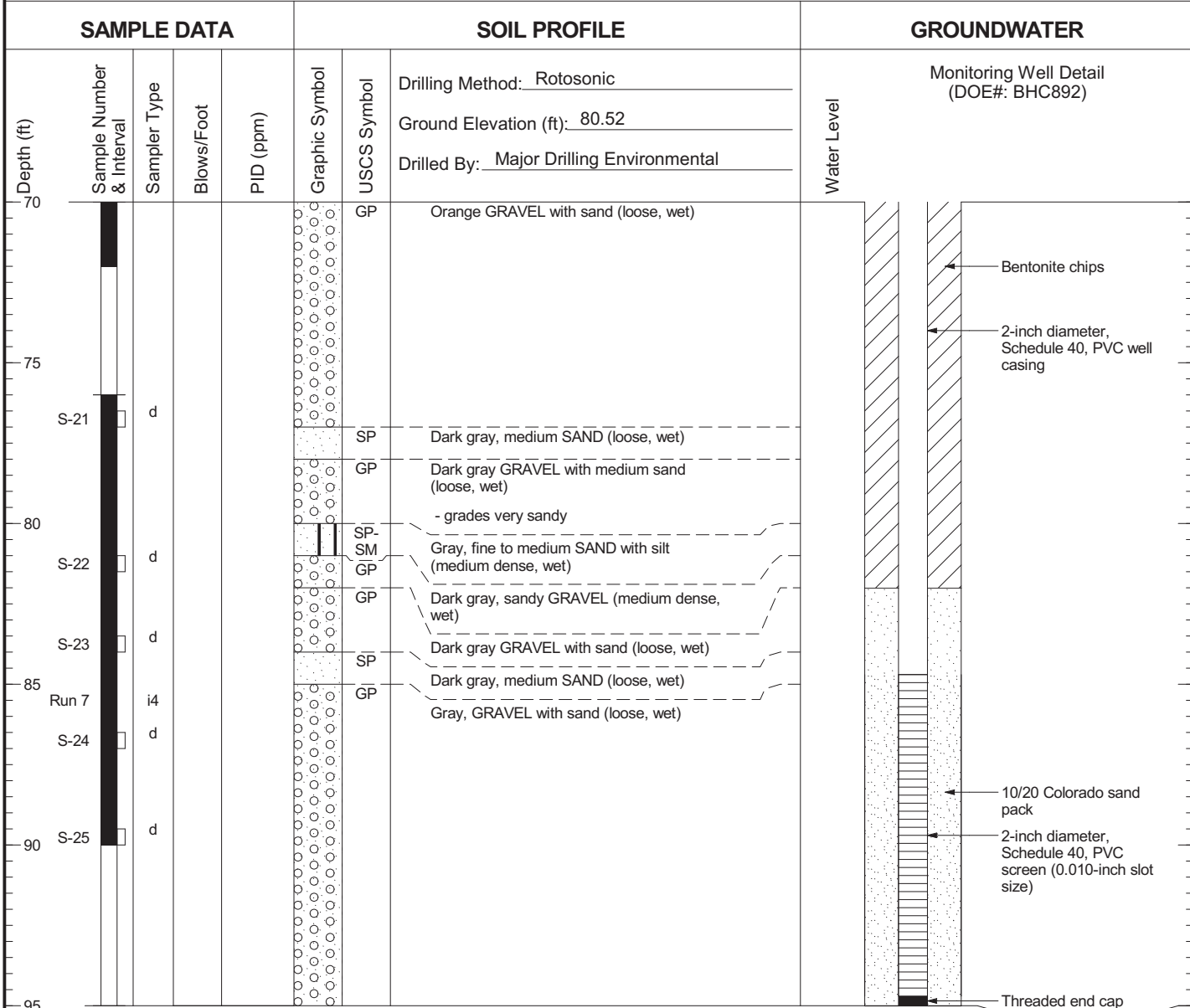


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW199

Figure  
C-168  
(2 of 3)

# AGW199



Boring Completed 10/06/11  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 10/06/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 80.20 ft.  
Total Depth of Monitoring Well = 95.0 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. DOE Unique Well Number: BHC892

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

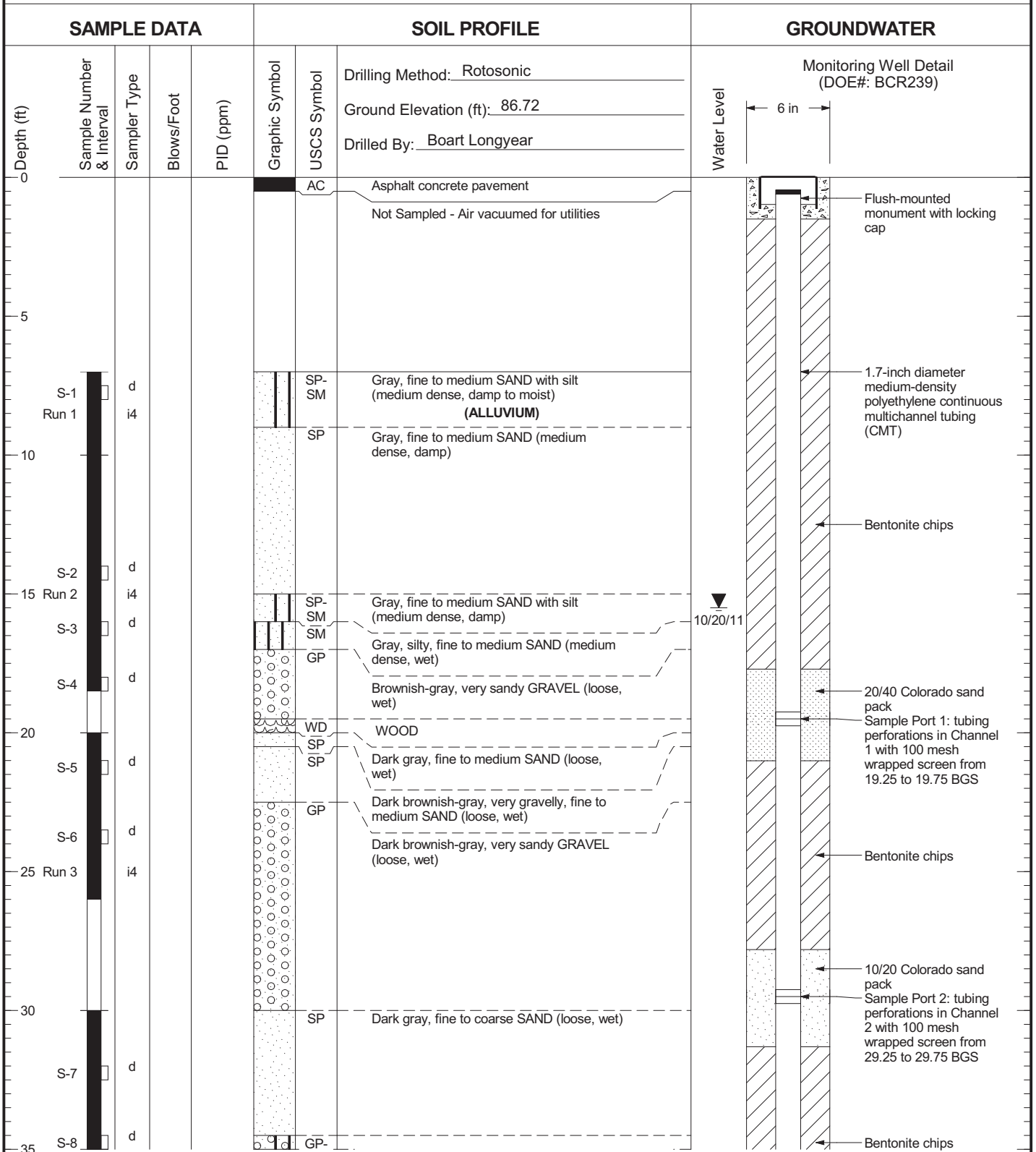


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW199

Figure  
C-168  
(3 of 3)

# AGW200



- 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. DOE Unique Well Number: BCR239

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

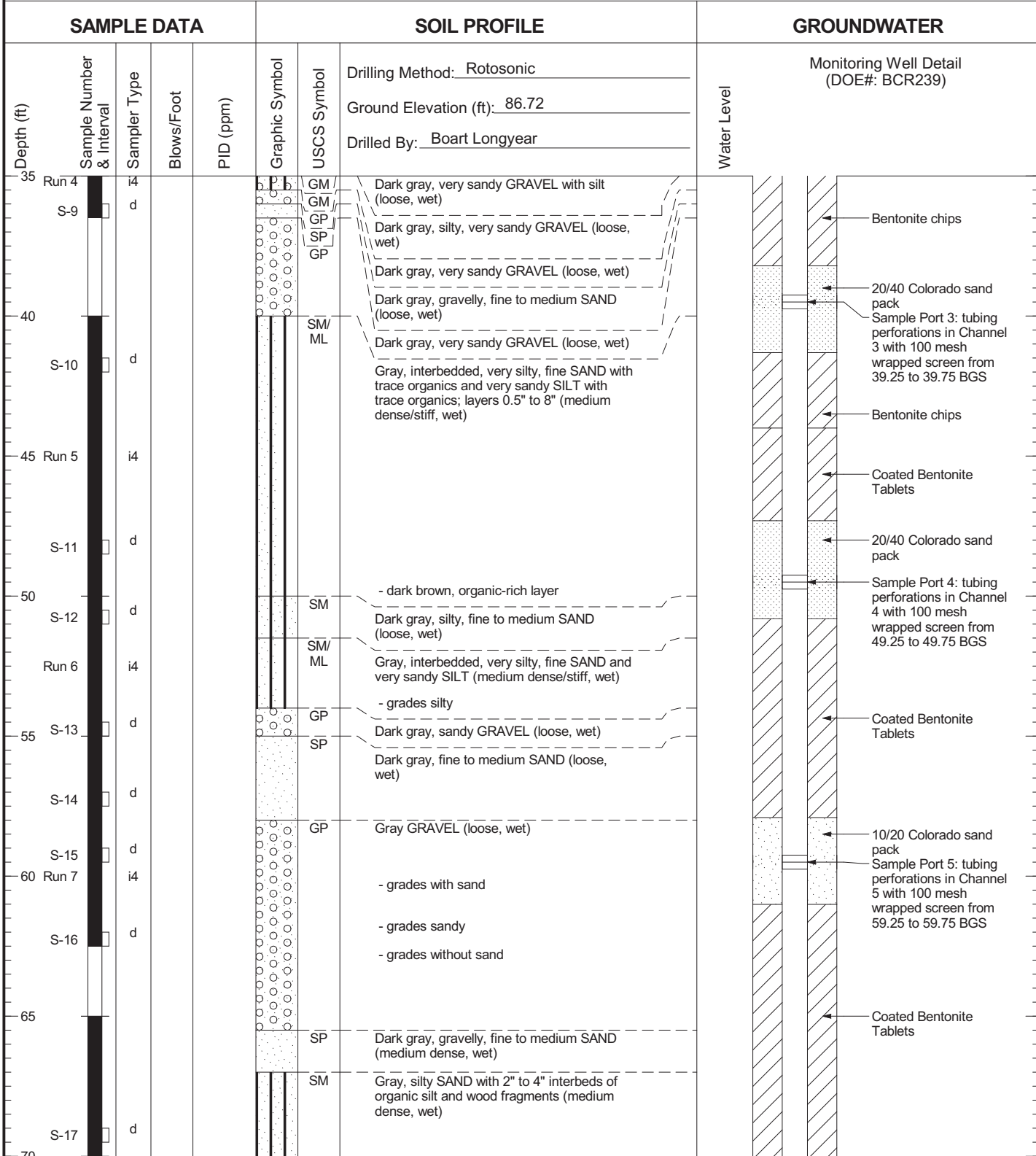


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Auburn, Washington

Log of Monitoring Well AGW200

Figure  
C-169  
(1 of 4)

# AGW200



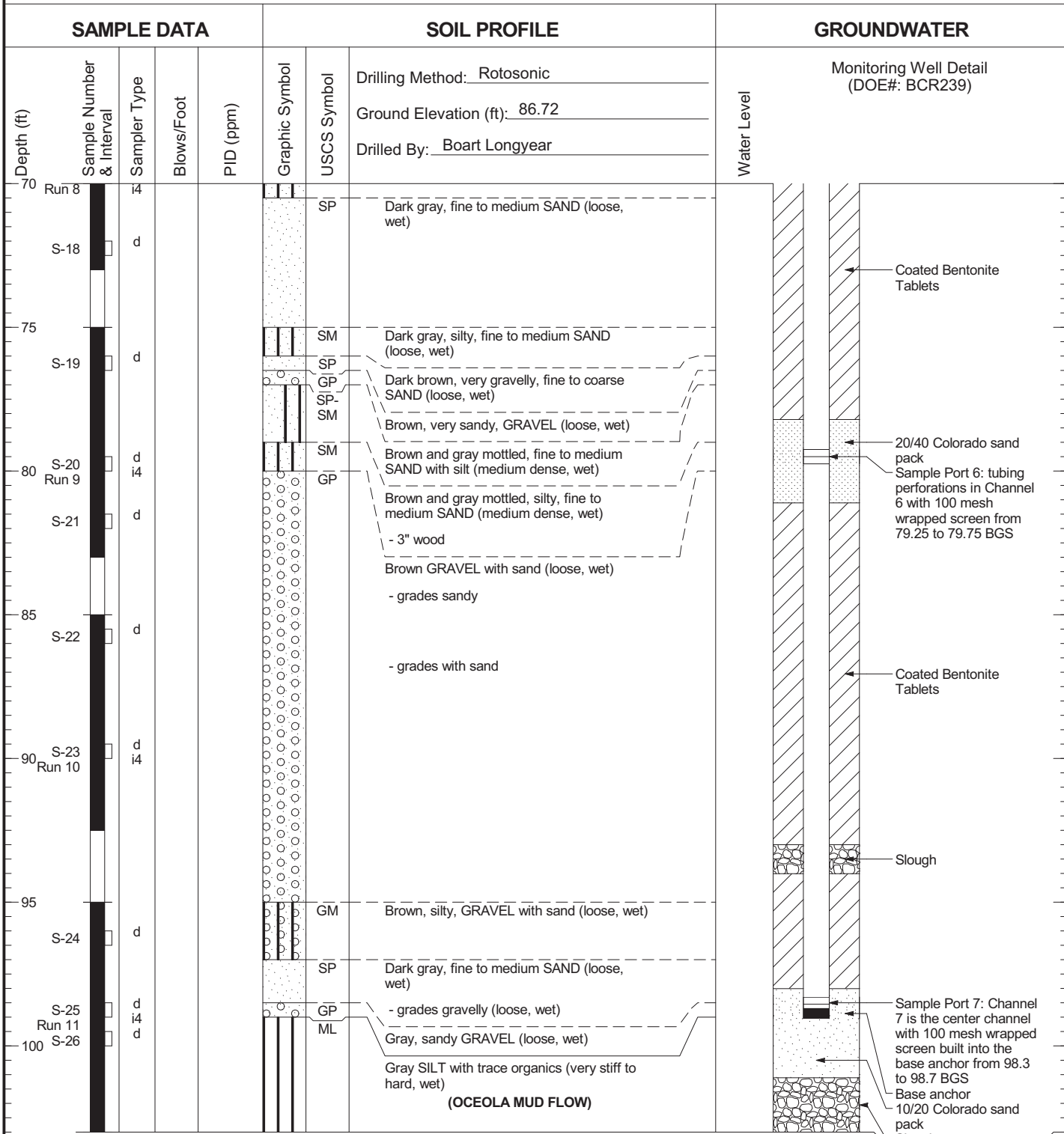
- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCR239

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG





# AGW200



Boring Completed 10/17/11  
 Total Depth of Boring = 103.0 ft.

Monitoring Well Completed 10/18/11  
 Elevation at Top of Protective Casing = Not measured

- 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. DOE Unique Well Number: BCR239

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG



Boeing Auburn Remedial  
 Investigation  
 Auburn, Washington

Log of Monitoring Well AGW200

Figure  
 C-169  
 (3 of 4)

# AGW200

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Ground Elevation (ft): <u>86.72</u>	Drilled By: <u>Boart Longyear</u>	Water Level	Monitoring Well Detail (DOE#: BCR239)
105											
110											
115											
120											
125											
130											
135											
140											

Elevation at Top of Monitoring Well Casing = 86.21 ft.  
Total Depth of Monitoring Well = 99.2 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. DOE Unique Well Number: BCR239

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

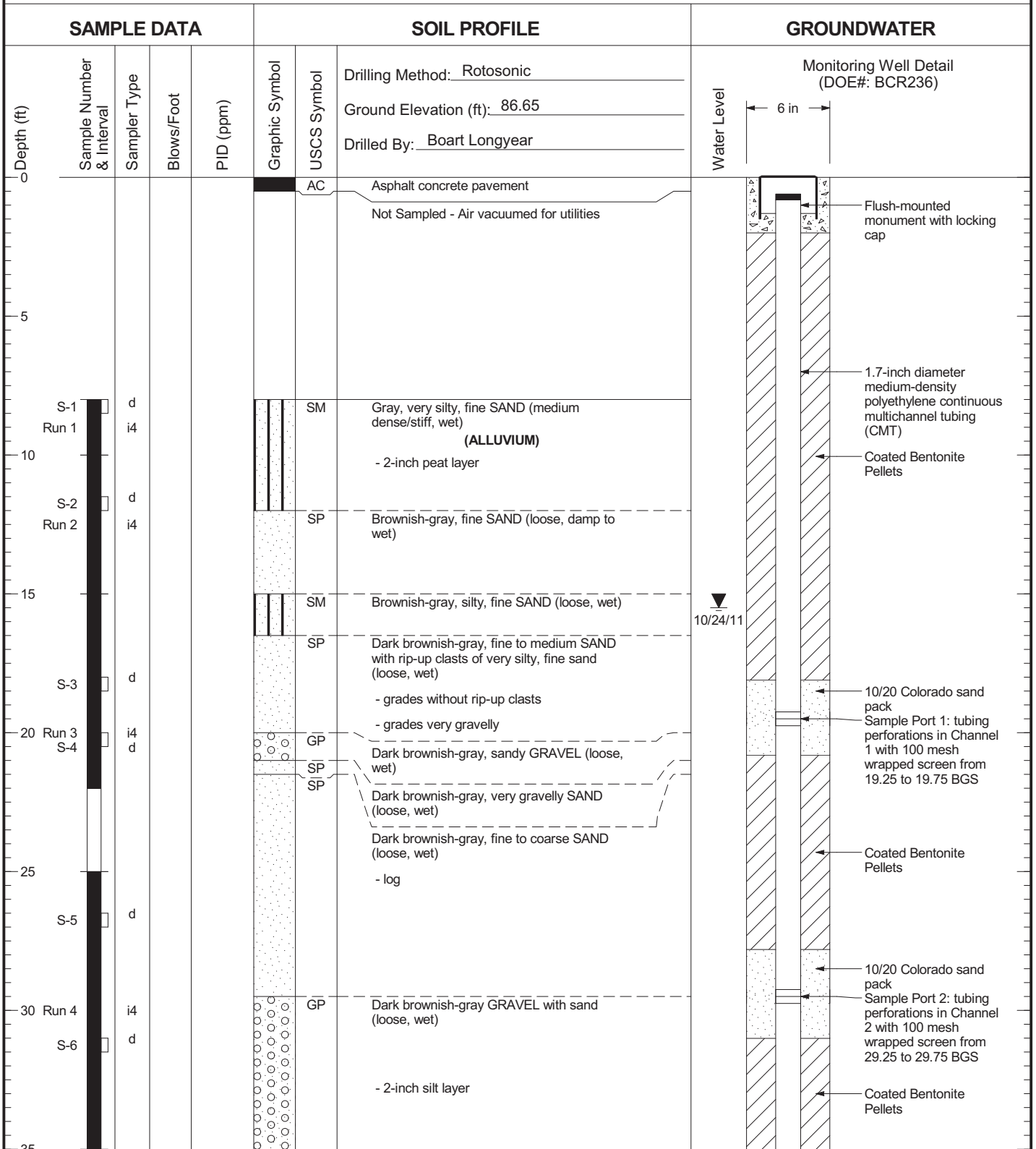


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW200

Figure  
C-169  
(4 of 4)

# AGW201



- 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. DOE Unique Well Number: BCR236

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW201

Figure  
C-170  
(1 of 3)

# AGW201

SAMPLE DATA				SOIL PROFILE			GROUNDWATER				
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Rotosonic	Ground Elevation (ft): 86.65	Drilled By: Boart Longyear	Water Level	Monitoring Well Detail (DOE#: BCR236)
35						GP					
						SM	Gray, silty, very gravelly, fine to medium SAND (dense, wet)				Coated Bentonite Pellets
	S-7	d				GP-GM	Gray, very sandy GRAVEL with silt (medium dense, wet)				20/40 Colorado sand pack
40	Run 5	i4				GM	Gray, silty, very sandy GRAVEL (medium dense, wet)				Sample Port 3: tubing perforations in Channel 3 with 100 mesh wrapped screen from 39.25 to 39.75 BGS
						GP	Gray GRAVEL with sand and trace silt (medium dense, wet)				
	S-8	d				SP	- grades sandy				Coated Bentonite Pellets
							Dark brownish-gray, very gravelly, fine to course SAND (loose, wet)				
45						ML	Brown and gray mottled, sandy SILT (stiff, wet)				
						SP-SM	Dark brownish-gray, fine SAND with silt (medium dense, wet)				
						SM	Dark brownish-gray, very silty, fine SAND (medium dense, wet)				20/40 Colorado sand pack
	S-9	d				SP-SM	Dark brownish-gray, fine SAND with silt (medium dense, wet)				Sample Port 4: tubing perforations in Channel 4 with 100 mesh wrapped screen from 49.25 to 49.75 BGS
50	Run 6	i4				SM/ML	Gray, interbedded, silty, fine SAND and sandy SILT (medium dense/stiff, wet)				
	S-10	d				GP	Orangish-brown, very sandy GRAVEL (loose, wet)				Coated Bentonite Pellets
						SP	Dark brownish-gray, fine to medium SAND (loose, wet)				
							- 2-inch silt layer				
							- 4-inch silt layer				
60	S-11	d				SP	Dark orangish-brown, fine to medium SAND (loose, wet)				10/20 Colorado sand pack
	Run 7	i4									Sample Port 5: tubing perforations in Channel 5 with 100 mesh wrapped screen from 59.25 to 59.75 BGS
						GP	Gray GRAVEL with sand (loose, wet)				
	S-12	d					- grades orangish-brown				
65						SP	Gray, fine to coarse SAND (loose, wet)				Coated Bentonite Pellets
						GP	Brownish-gray GRAVEL with sand (loose, wet)				
70	S-13	d									

- 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. DOE Unique Well Number: BCR236

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

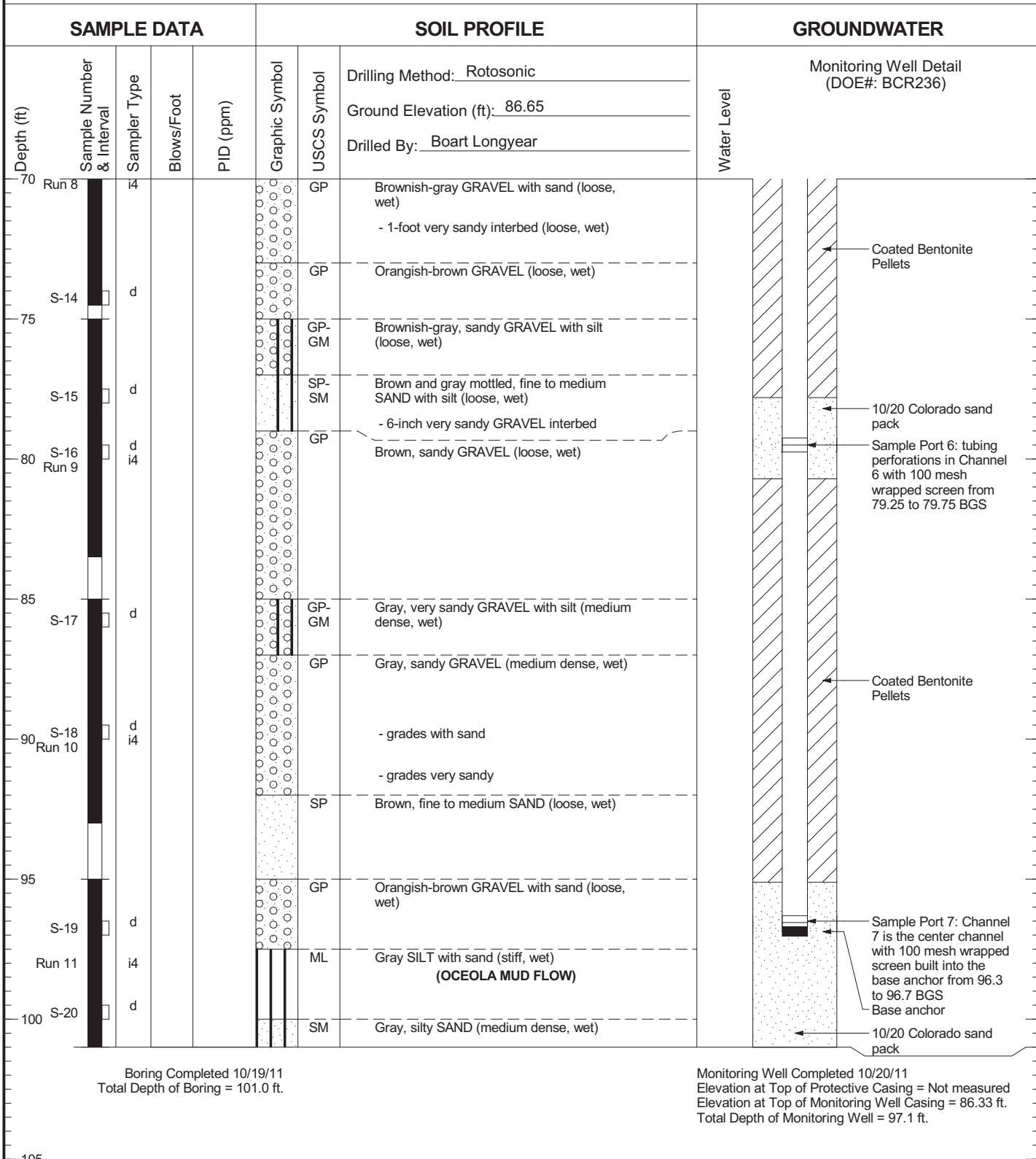


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW201

Figure  
C-170  
(2 of 3)

# AGW201



Boring Completed 10/19/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 10/20/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.33 ft.  
Total Depth of Monitoring Well = 97.1 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. DOE Unique Well Number: BCR236

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

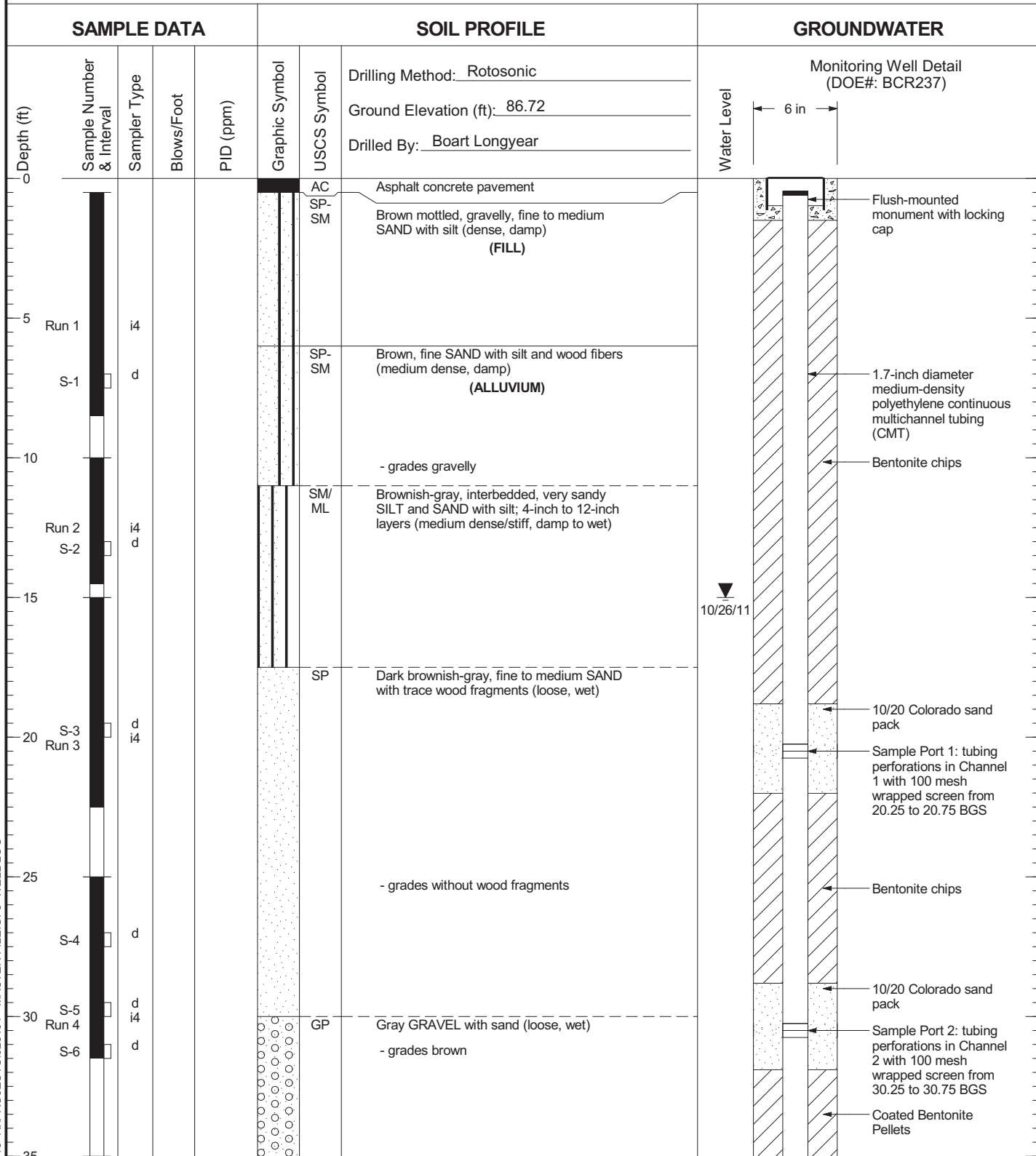


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW201

Figure  
C-170  
(3 of 3)

# AGW202



▼  
10/26/11

- 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. DOE Unique Well Number: BCR237

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

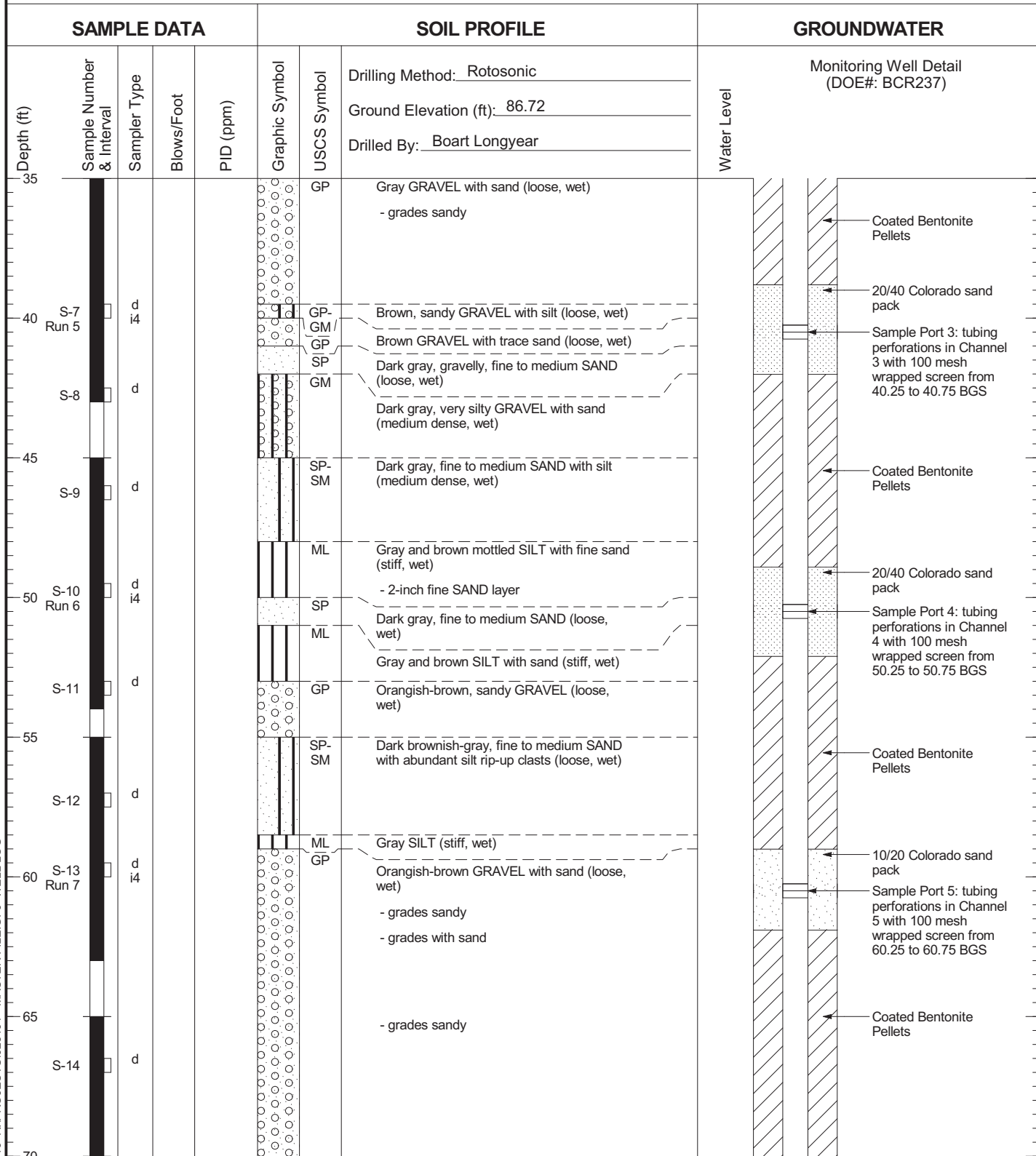


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW202

Figure  
C-171  
(1 of 3)

# AGW202



- 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. DOE Unique Well Number: BCR237

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

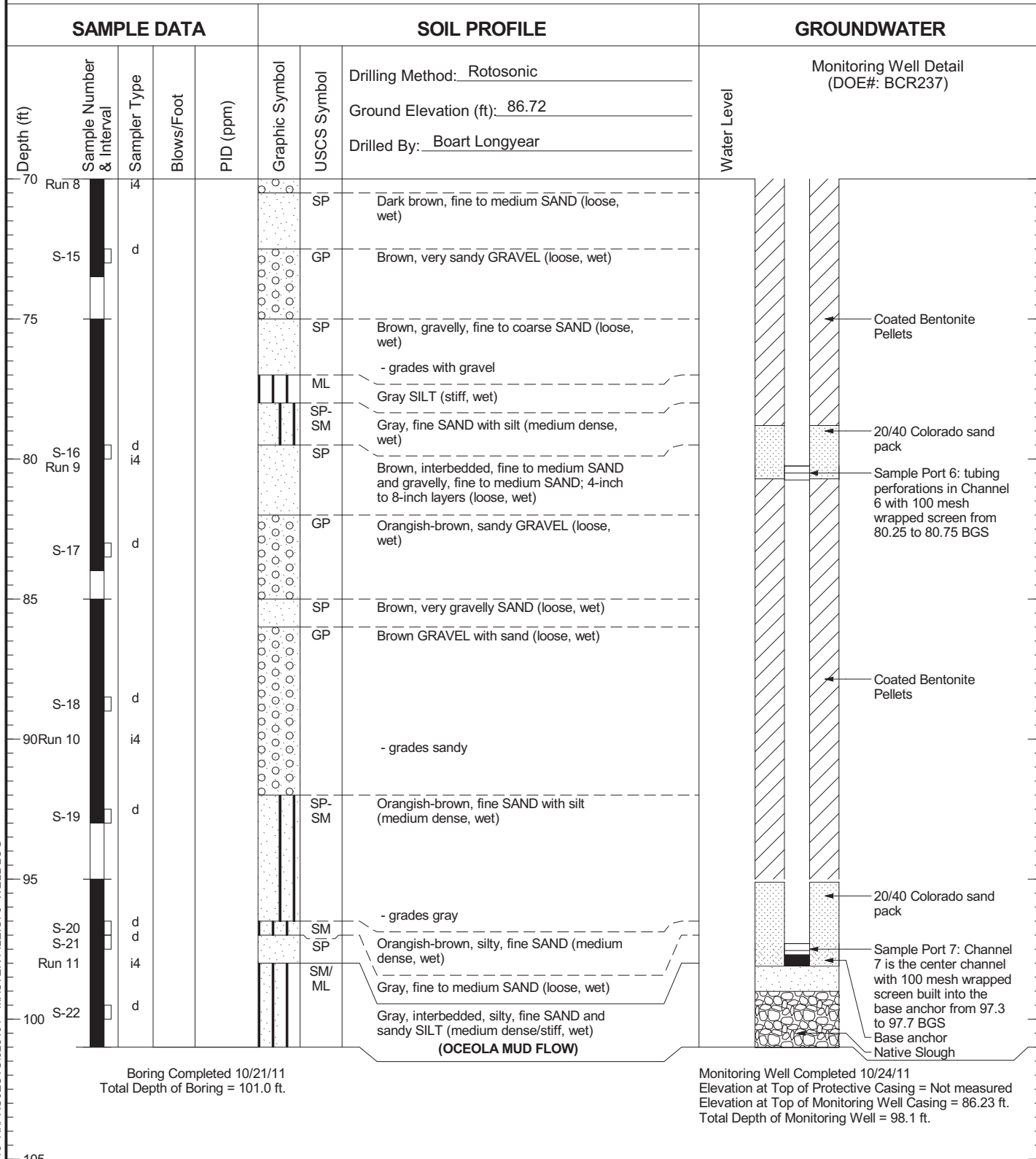


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW202

Figure  
C-171  
(2 of 3)

# AGW202



Boring Completed 10/21/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 10/24/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.23 ft.  
Total Depth of Monitoring Well = 98.1 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. DOE Unique Well Number: BCR237

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



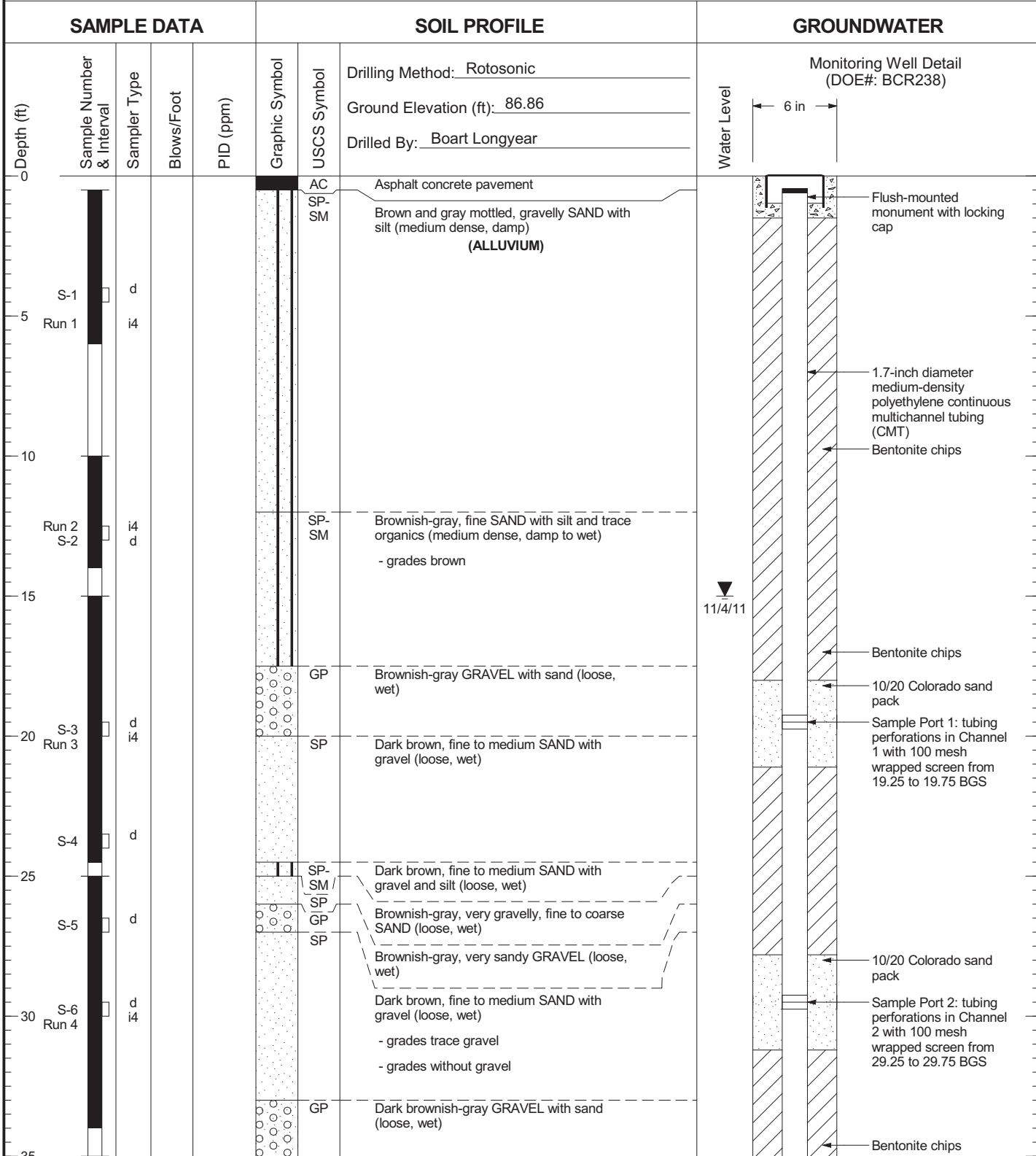
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW202

Figure  
C-171  
(3 of 3)



# AGW203

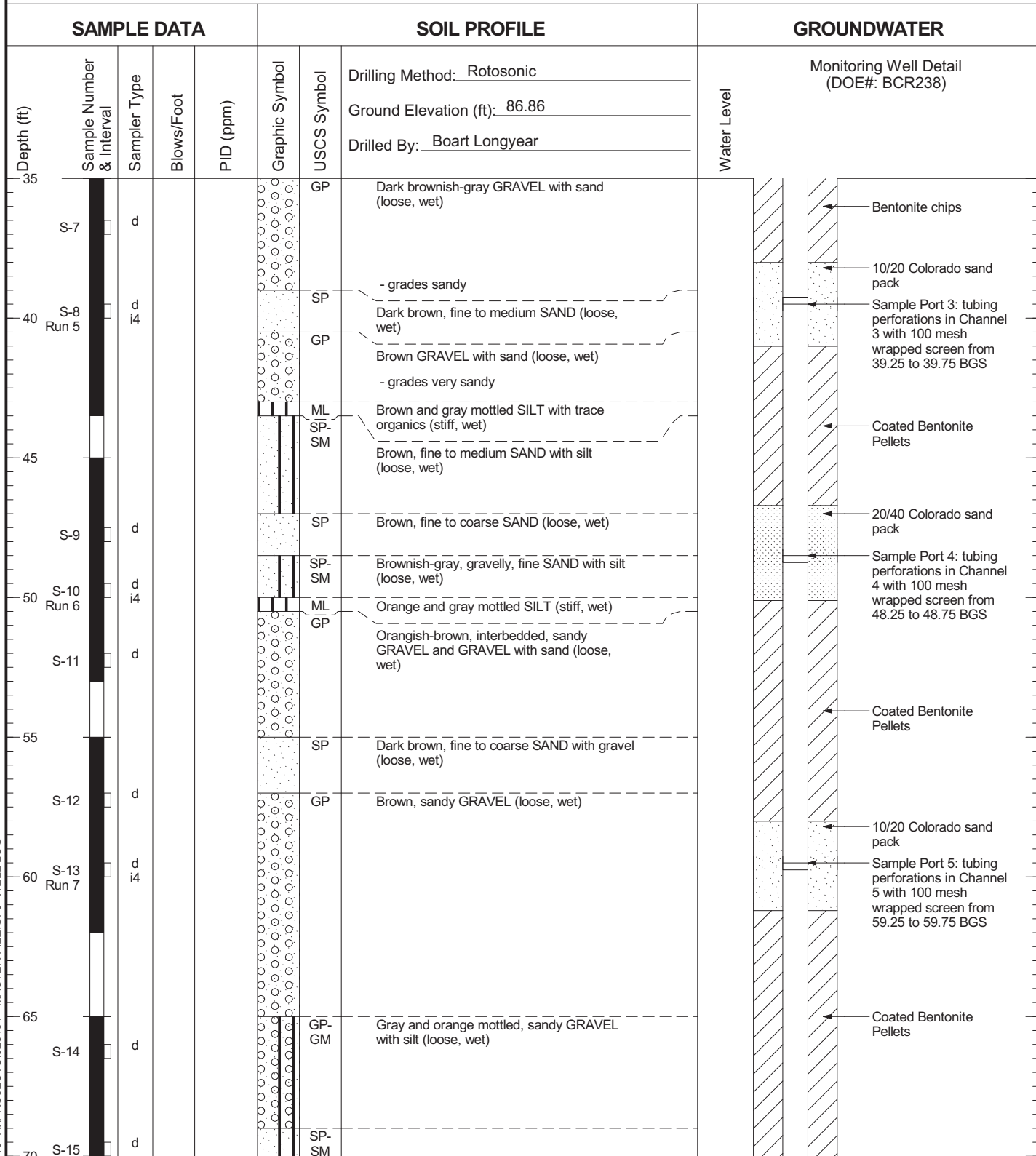


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCR238

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW203



- 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. DOE Unique Well Number: BCR238

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

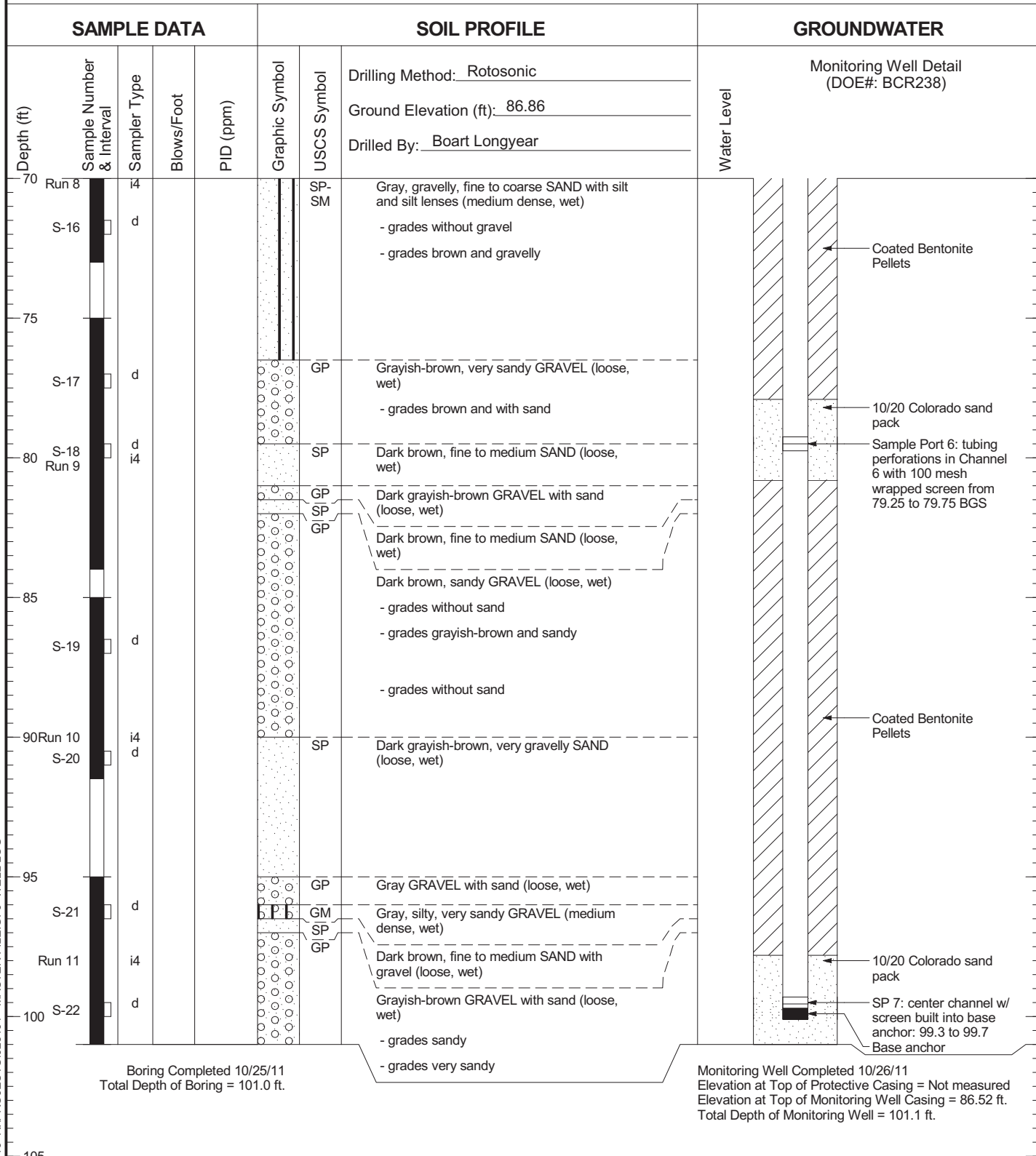


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW203

Figure  
C-172  
(2 of 3)

# AGW203



Boring Completed 10/25/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 10/26/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.52 ft.  
Total Depth of Monitoring Well = 101.1 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. DOE Unique Well Number: BCR238

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW203

Figure  
C-172  
(3 of 3)

# AGW204

SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Monitoring Well Detail (DOE#: BCR240)	
	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>87.71</u> Drilled By: <u>Boart Longyear</u>						Water Level	6 in
0								
5								
10	Run 1	i4			SP	Brown, fine SAND with trace gravel (loose, damp) <b>(ALLUVIUM)</b> - grades dark brown and fine to medium		
15	S-1	d			GP	Brown, sandy GRAVEL (loose, wet) - 4-inch gravel layer with cobble	10/31/11	
20	Run 2	i4			GP	Brown GRAVEL with sand and cobble (loose, wet) - grades sandy	2-inch diameter, Schedule 40, PVC well casing	
25	S-2	d			GP	- grades with trace silt  <b>Groundwater Sample:</b> <b>AGW204-30-20111027</b>		
30	S-3	d			SP-SM	Brown, very gravelly, fine to coarse SAND with silt (loose, wet)		
35	S-4	d			GP			
35	S-5	d			GP			

- 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. DOE Unique Well Number: BCR240

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW204

Figure  
C-173  
(1 of 2)

# AGW204

SAMPLE DATA					SOIL PROFILE			GROUNDWATER			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BCR240)		
	Ground Elevation (ft): <u>87.71</u>										
	Drilled By: <u>Boart Longyear</u>										
	35	Run 4 S-6	i4 d			GP	Brown, sandy GRAVEL with trace silt (loose, wet) - grades bluish-gray - grades brown				Bentonite chips
	40	S-7	d			GP/SP	Dark brown, very sandy GRAVEL to very gravelly SAND (loose, wet)				2-inch diameter, Schedule 40, PVC well casing
	45	Run 5 S-8	i4 d			GP	Dark brown GRAVEL (loose, wet)				
	50	S-9	d			SP-SM	Brown, very gravelly, fine to coarse SAND with silt (loose, wet)				10/20 Colorado sand pack
	55	Run 6 S-10	i4 d			GP-GM	Gray, very sandy GRAVEL with silt (loose, wet)				2-inch diameter, Schedule 40, PVC screen (0.010-inch slot size)
	60					GP	Brown GRAVEL (loose, wet)				Threaded end cap

Boring Completed 10/27/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 10/27/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 87.34 ft.  
Total Depth of Monitoring Well = 58.2 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. DOE Unique Well Number: BCR240

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

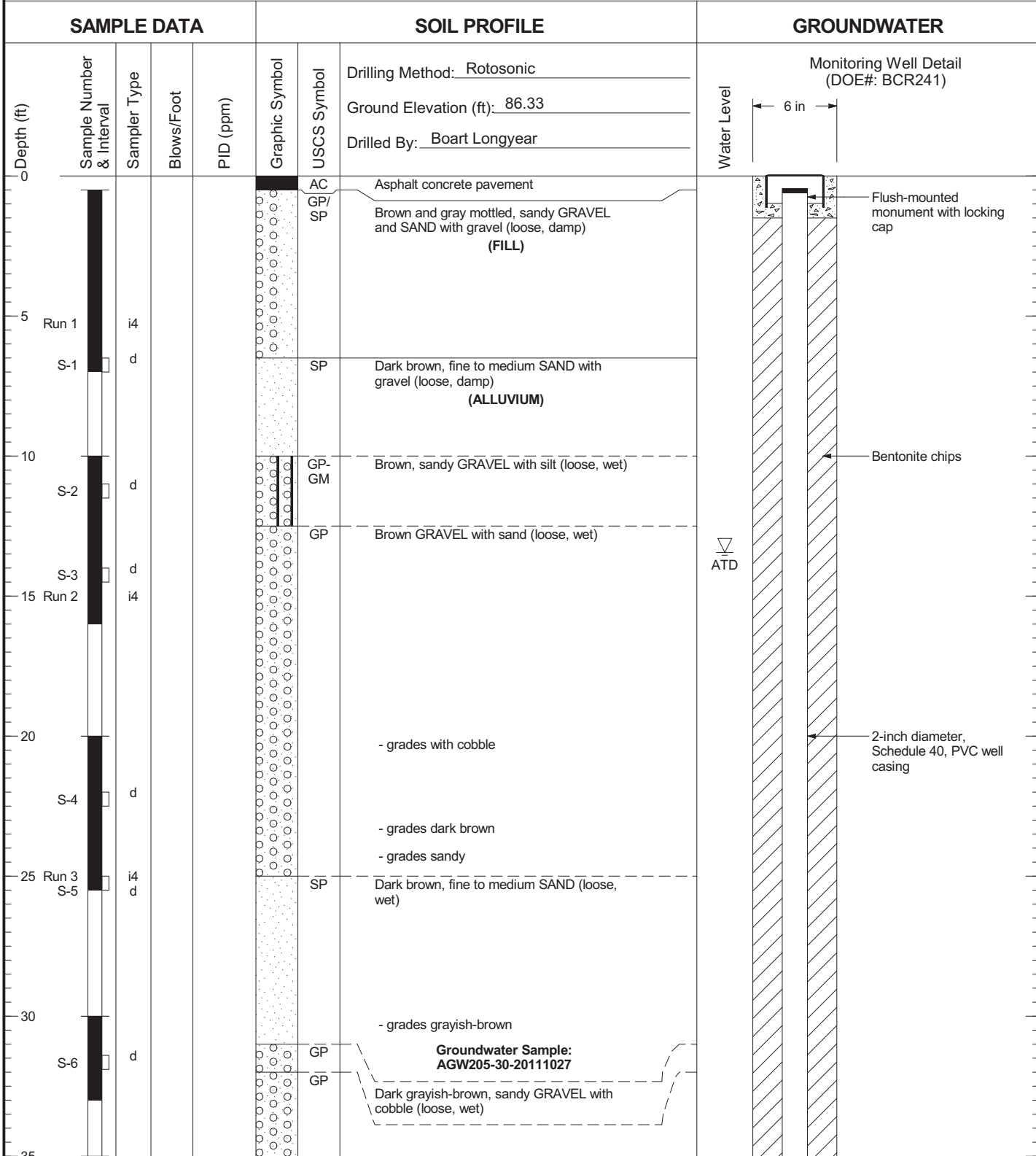


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW204

Figure  
C-173  
(2 of 2)

# AGW205



- 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. DOE Unique Well Number: BCR241

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

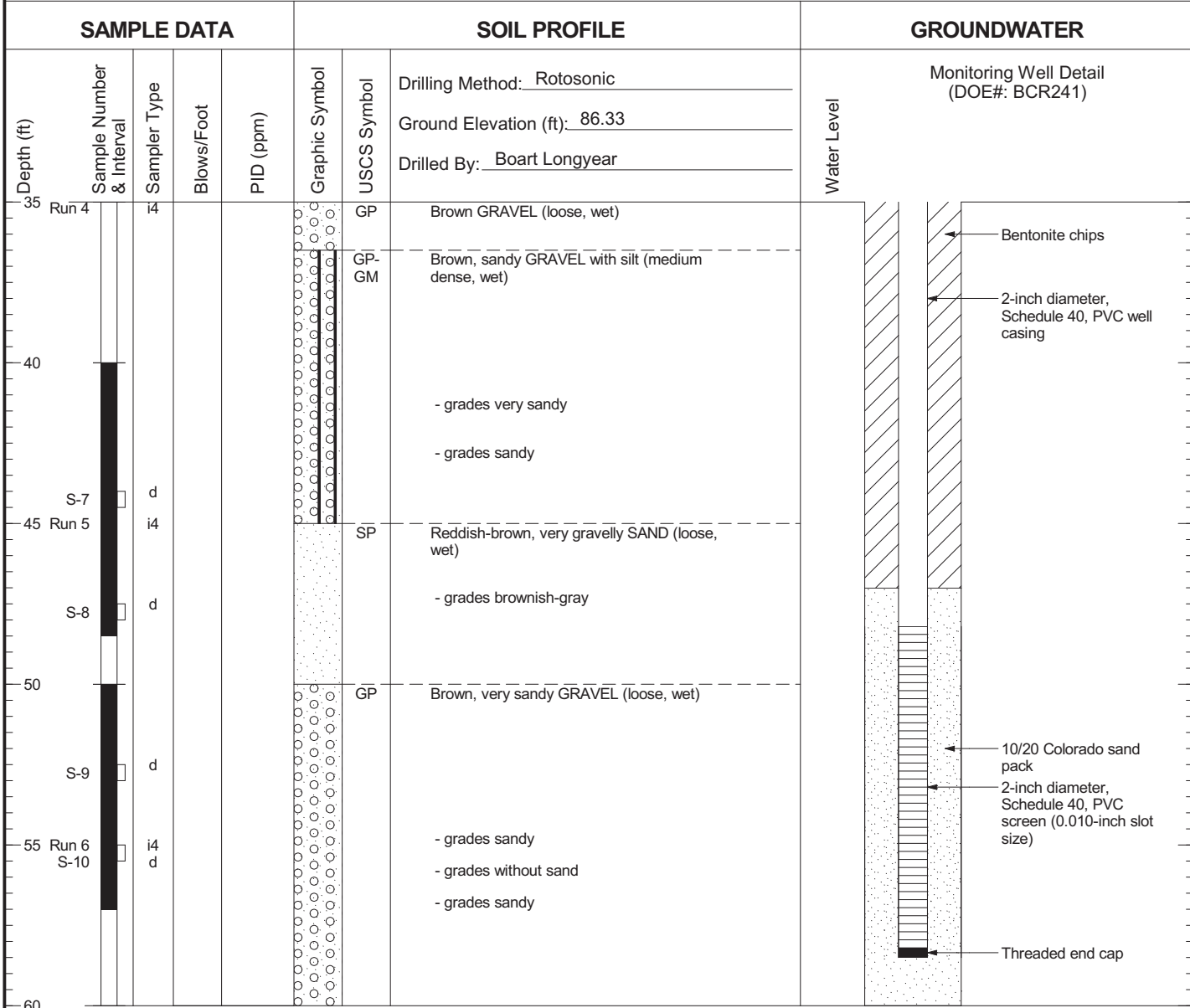


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Auburn, Washington

Log of Monitoring Well AGW205

Figure  
C-174  
(1 of 2)

# AGW205



Boring Completed 10/27/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 10/27/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.02 ft.  
Total Depth of Monitoring Well = 58.5 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.
  4. DOE Unique Well Number: BCR241

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

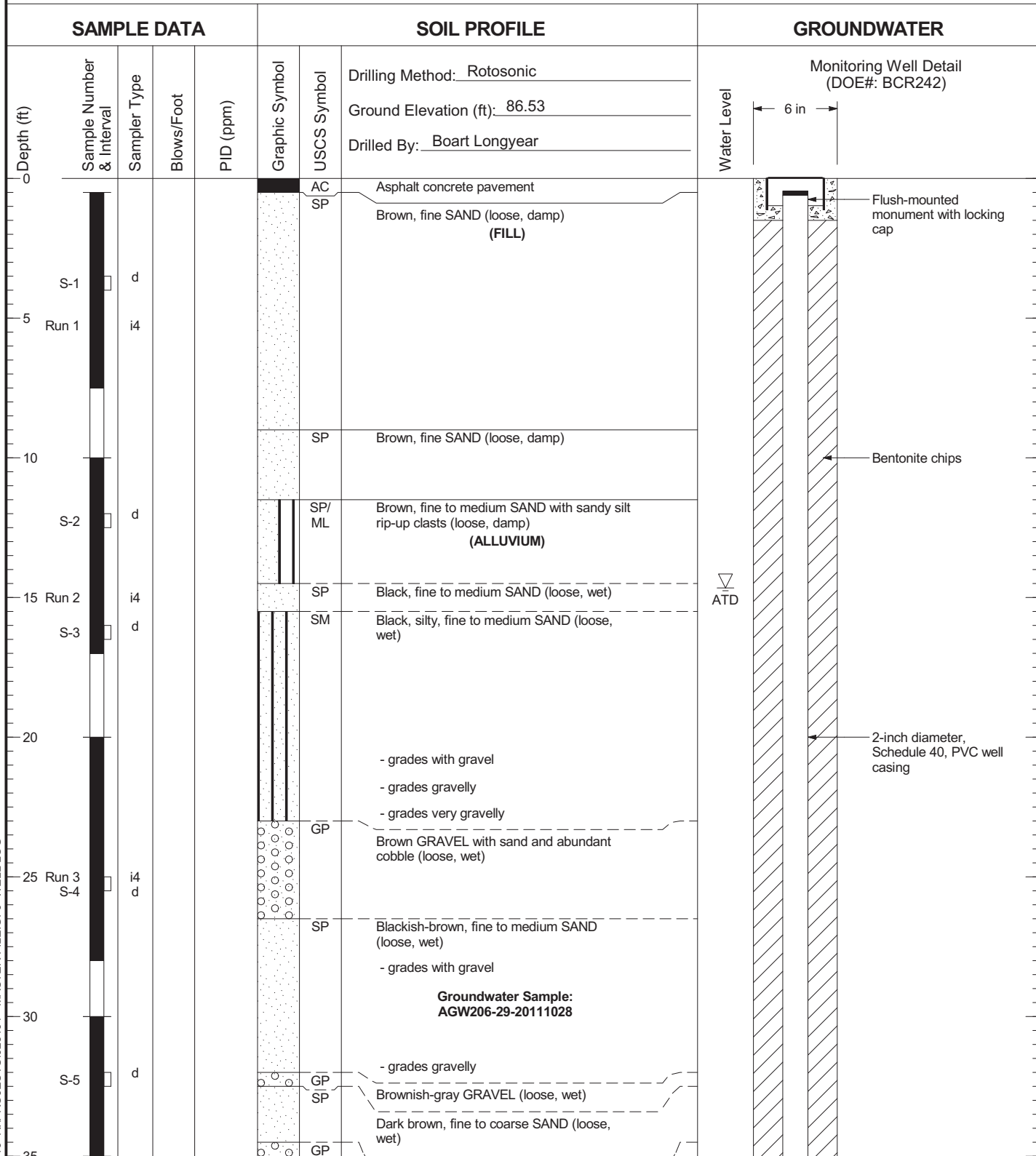


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW205

Figure  
C-174  
(2 of 2)

# AGW206



- 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. DOE Unique Well Number: BCR242

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW206

Figure  
C-175  
(1 of 2)



# AGW206

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		
							Ground Elevation (ft): <u>86.53</u>		
							Drilled By: <u>Boart Longyear</u>		
							Water Level	Monitoring Well Detail (DOE#: BCR242)	
35	Run 4	i4			GP		- grades very gravelly		
	S-6	d			SP		Brown GRAVEL with sand (loose, wet)		
					GP		- grades very sandy		
					GP		Dark brown, fine to medium SAND (loose, wet)		
40					GP		Dark brown, sandy GRAVEL (loose, wet)		
	S-7	d			SP		Dark brown, very gravelly SAND (loose, wet)		
					GP		Dark brown, sandy GRAVEL (loose, wet)		
					GP-GM GP/ML/SP		Dark brown, sandy GRAVEL with silt (loose, wet)		
45	Run 5	i4			SP-SM		Interbedded: brown, sandy GRAVEL with silt; orange and gray mottled SILT; and brown, gravelly SAND (medium dense/stiff, wet)		
	S-8	d			SP-SM		Orangish-brown, fine to medium SAND with silt (loose, wet)		
					GP		Brown GRAVEL with sand and trace silt; goopy (loose, wet)		
	S-9	d			SM		Dark gray, silty, fine SAND with trace organics (loose, wet)		
					GP		Dark gray, very sandy GRAVEL (loose, wet)		
	S-10	d			GP		- 3-inch wood debris		
55	Run 6	i4			SP		- 2-inch wood debris		
					SP		Gray, fine to coarse SAND with gravel (loose, wet)		
					GP		Dark brownish-gray, fine to medium SAND (loose, wet)		
					GP		- grades gravelly		
60					GP		Dark brownish-gray, sandy GRAVEL (loose, wet)		

Boring Completed 10/28/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 10/28/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.22 ft.  
Total Depth of Monitoring Well = 58.3 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. DOE Unique Well Number: BCR242

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

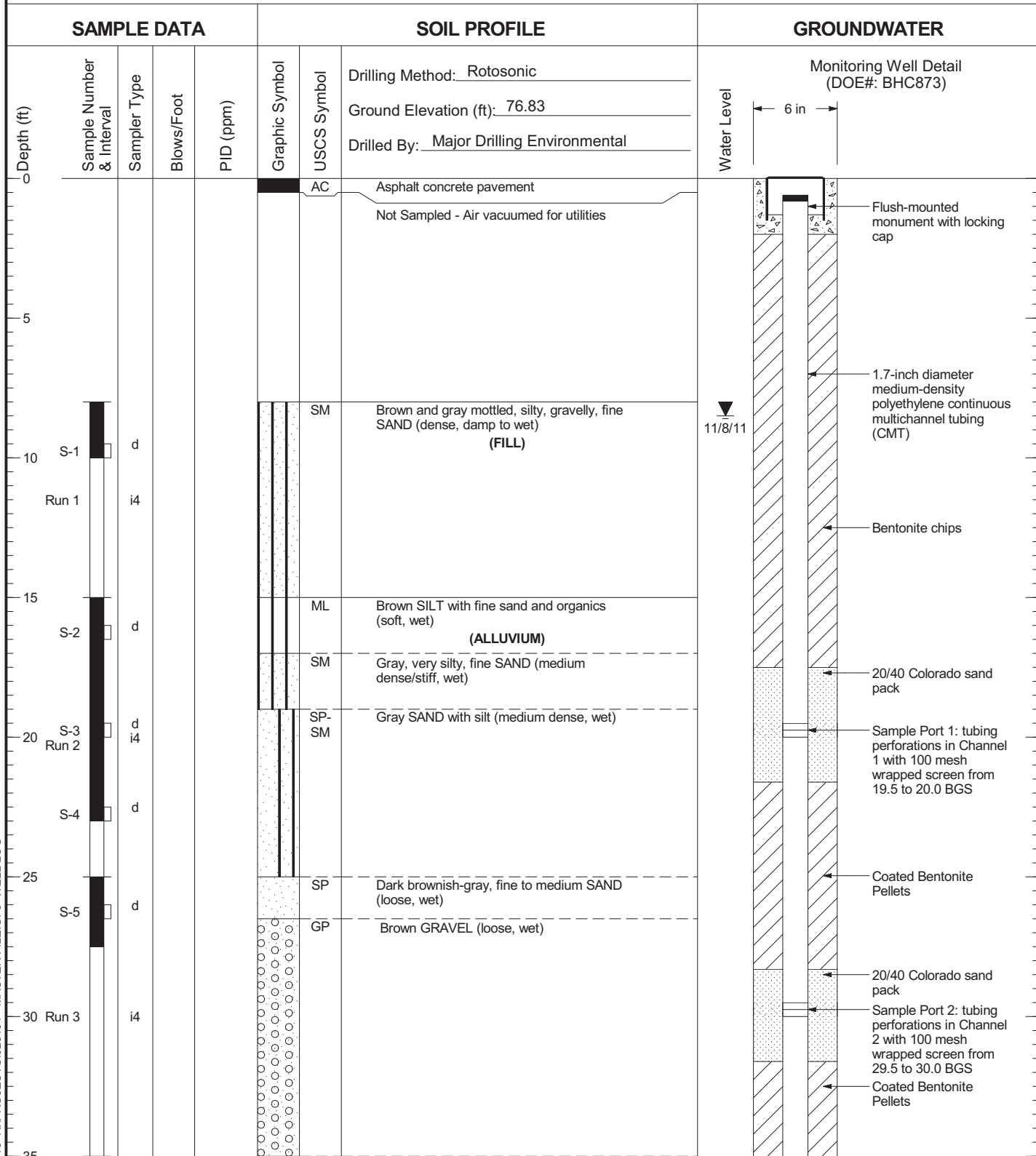


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW206

Figure  
C-175  
(2 of 2)

# AGW207



- 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. DOE Unique Well Number: BHC873

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

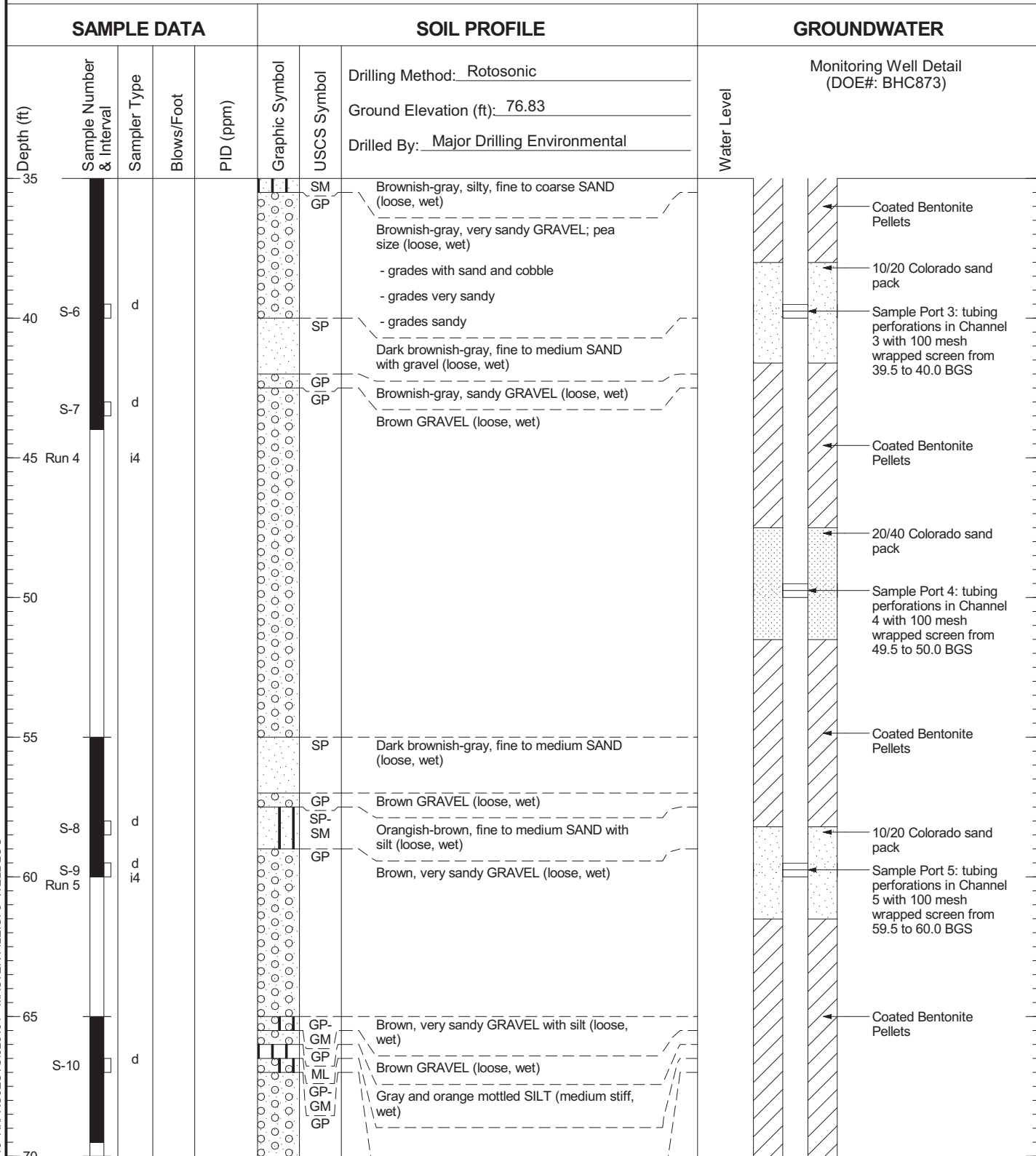


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW207

Figure  
C-176  
(1 of 3)

# AGW207



- 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. DOE Unique Well Number: BHC873

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW207

Figure  
C-176  
(2 of 3)

# AGW207

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BHC873)
							Ground Elevation (ft): <u>76.83</u>		
70	Run 6	i4			GP		Drilled By: <u>Major Drilling Environmental</u>		
					GP		Orangish-brown, sandy GRAVEL with silt (loose, wet) Brown, sandy GRAVEL (loose, wet)		Coated Bentonite Pellets
75					SP GP		Dark brownish-gray, fine to medium SAND (loose, wet) Brown GRAVEL with sand (loose, wet)		
80	S-11	d			SP GP-GM		Dark, brownish-gray, fine to coarse SAND with gravel (loose, wet) Brown, sandy GRAVEL with silt (loose, wet)		10/20 Colorado sand pack Sample Port 7: Channel 7 is the center channel with 100 mesh wrapped screen built into the base anchor from 79.8 to 80.2 BGS Base anchor
85	Run 7	i4			ML		Brown and gray mottled SILT with trace organics and trace gravel (stiff, wet)		
90	S-13	d			SM		Gray, silty, fine to coarse SAND with rounded and angular gravel (dense, wet) <b>(OSCEOLA MUD FLOW)</b>		Backfill - Coated Bentonite Pellets
95	S-14	d							

Boring Completed 10/30/11  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 11/01/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.17 ft.  
Total Depth of Monitoring Well = 80.6 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. DOE Unique Well Number: BHC873

025164 - 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

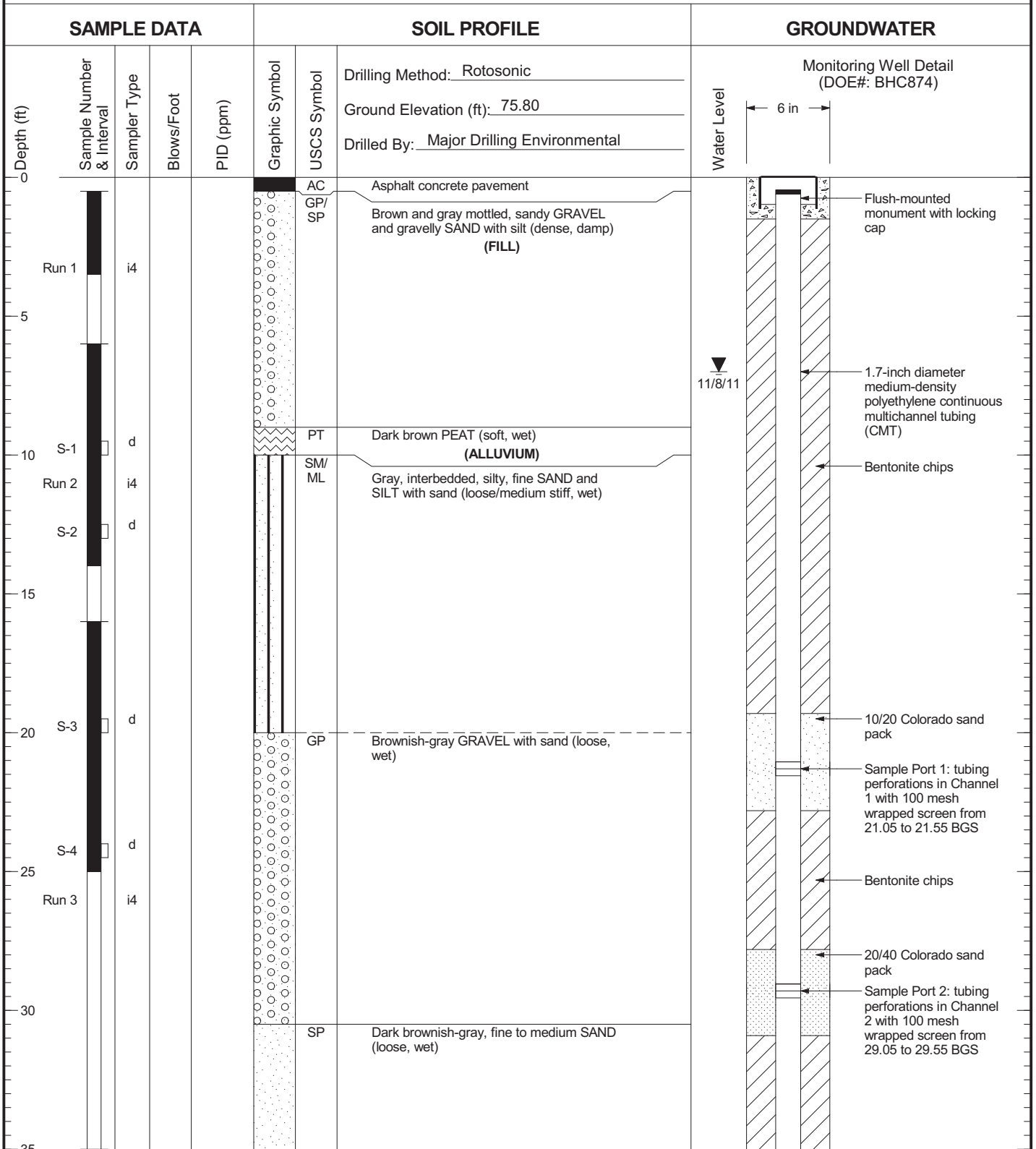


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Auburn, Washington

Log of Monitoring Well AGW207

Figure  
C-176  
(3 of 3)

# AGW208



025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: BHC874

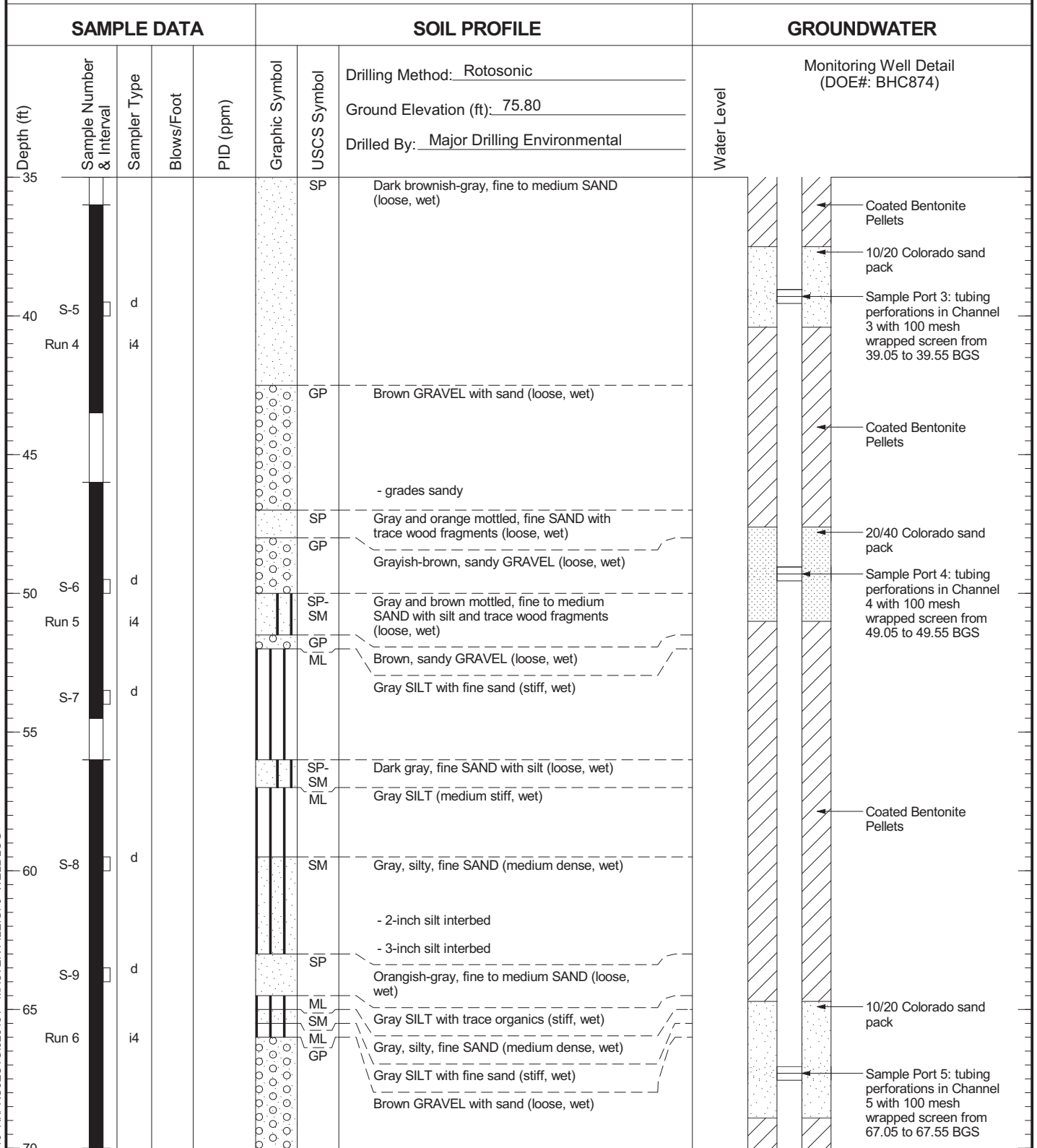


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Log of Monitoring Well AGW208

Figure  
C-177  
(1 of 3)

# AGW208



- 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. DOE Unique Well Number: BHC874

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

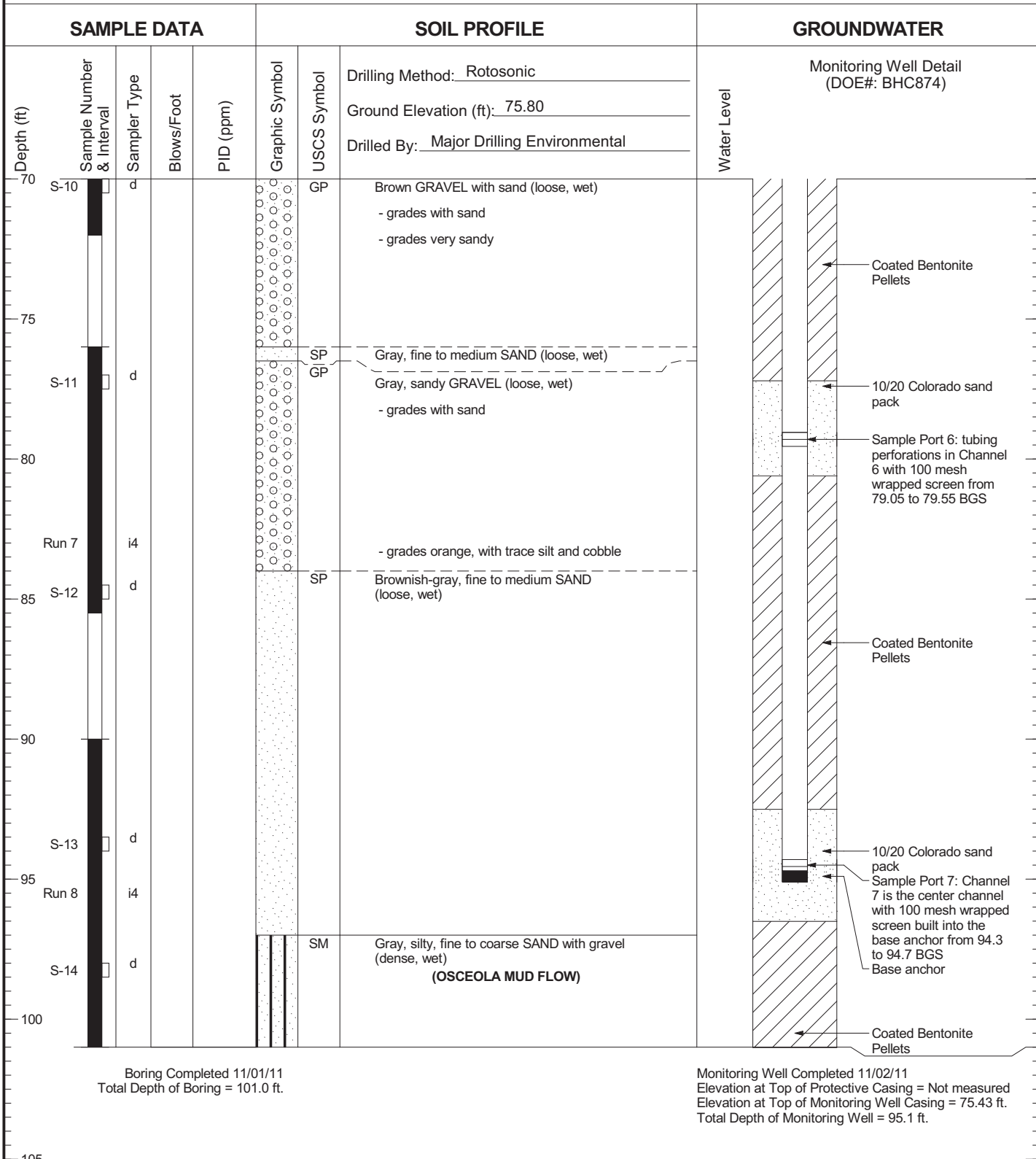


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW208

Figure  
C-177  
(2 of 3)

# AGW208



Boring Completed 11/01/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 11/02/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 75.43 ft.  
Total Depth of Monitoring Well = 95.1 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. DOE Unique Well Number: BHC874

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

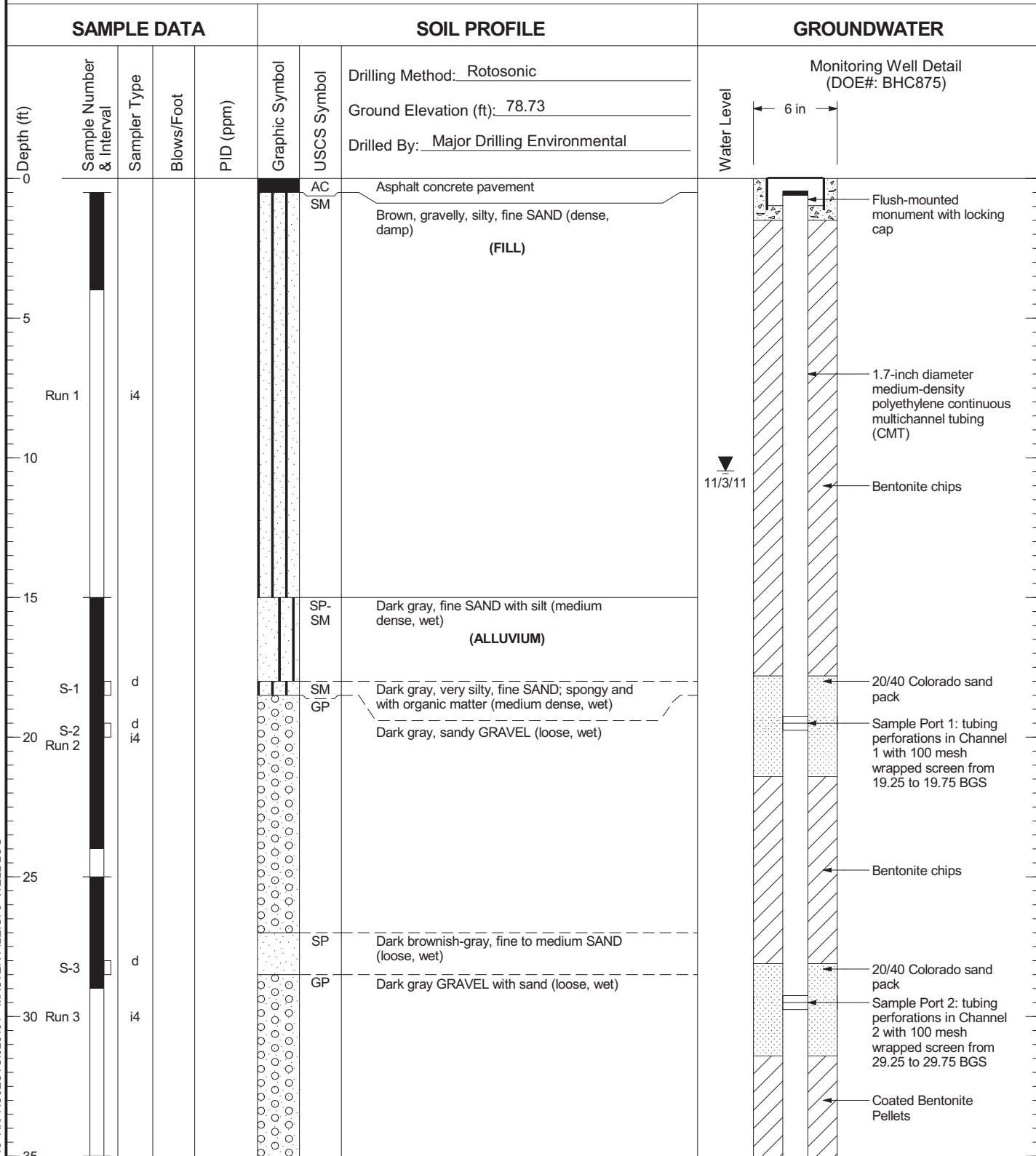


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW208

Figure  
C-177  
(3 of 3)

# AGW209



- 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. DOE Unique Well Number: BHC875

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



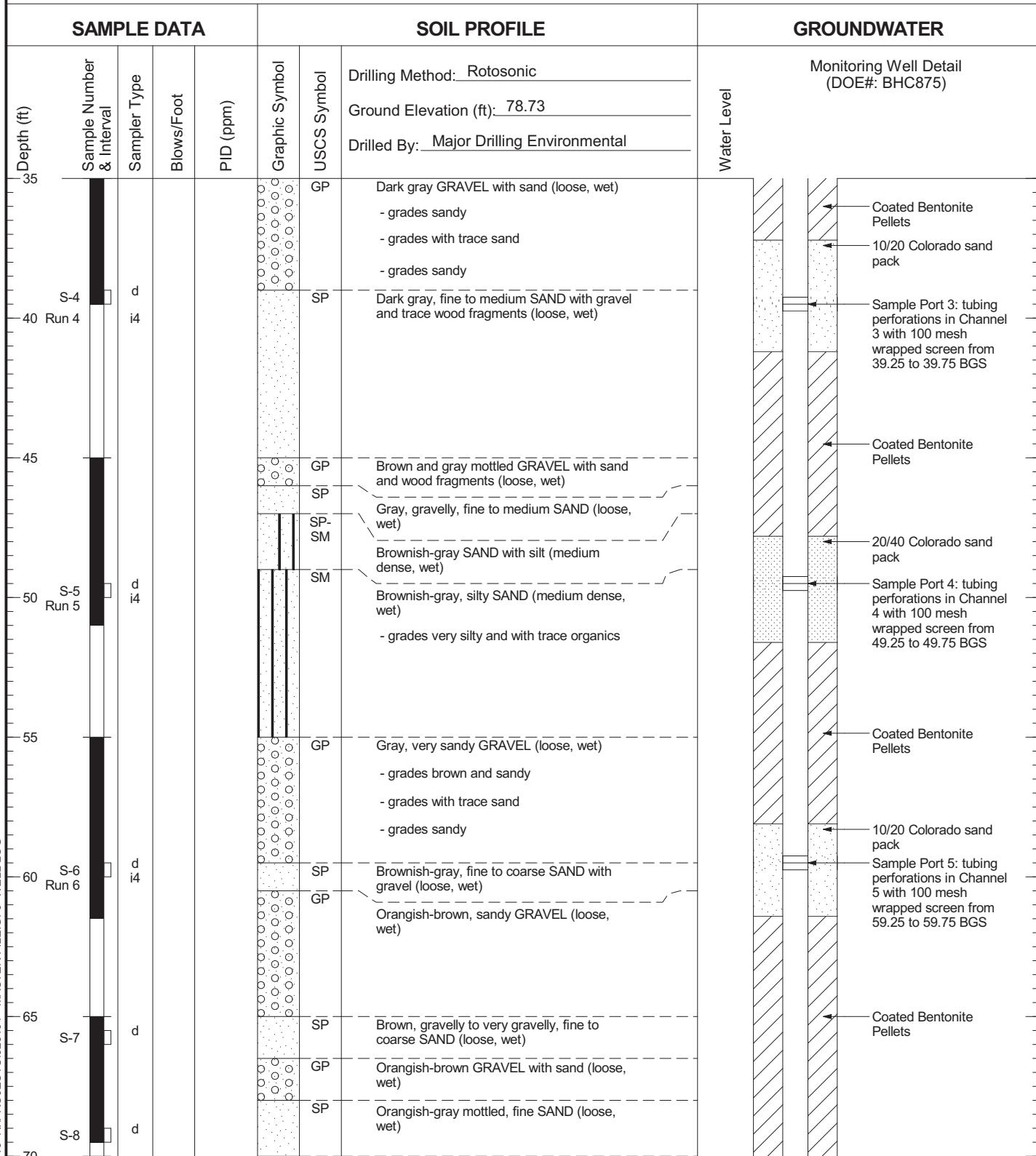
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW209

Figure  
C-178  
(1 of 3)



# AGW209



- 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. DOE Unique Well Number: BHC875

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

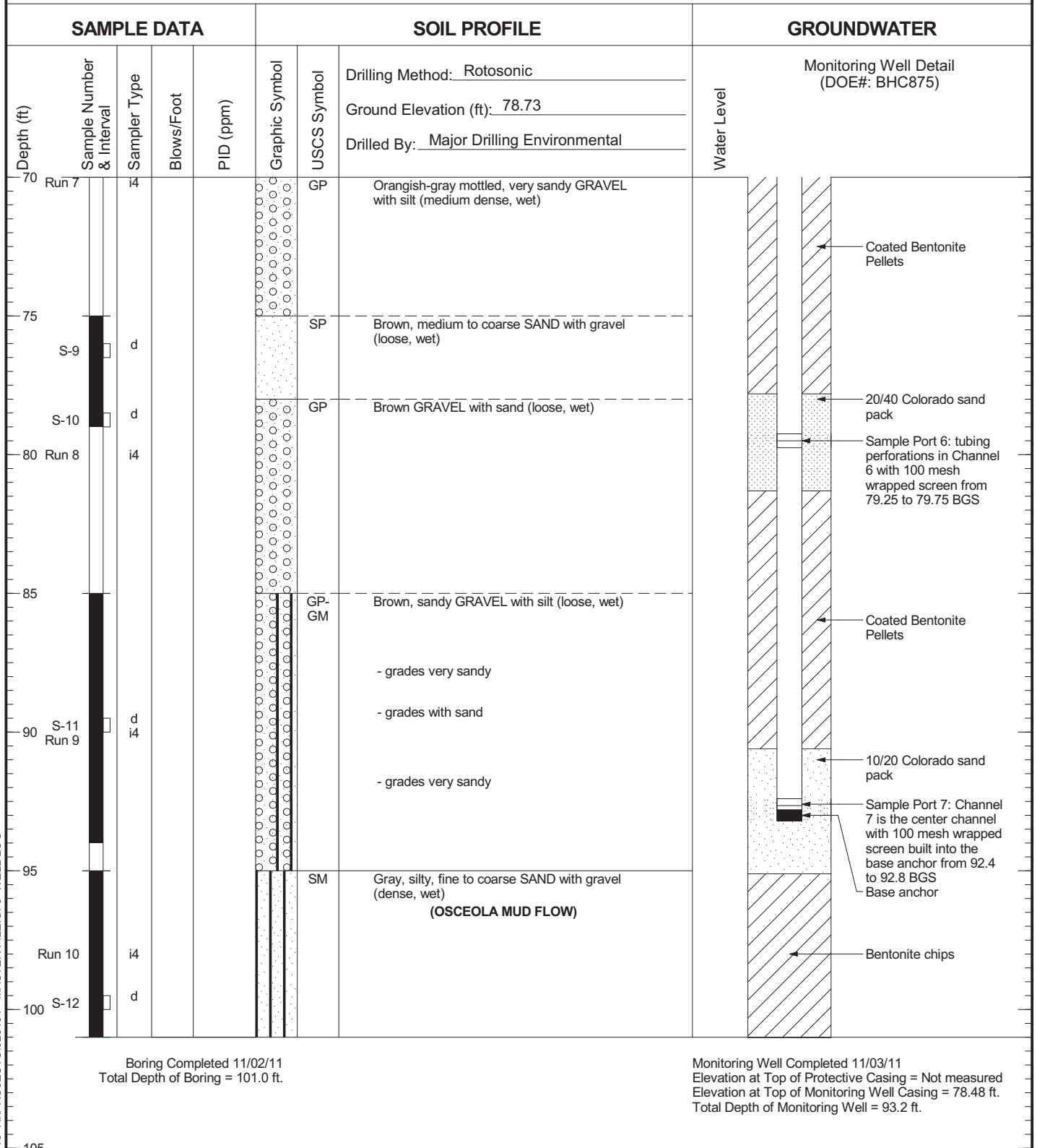


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW209

Figure  
C-178  
(2 of 3)

# AGW209



Boring Completed 11/02/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 11/03/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.48 ft.  
Total Depth of Monitoring Well = 93.2 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. DOE Unique Well Number: BHC875

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

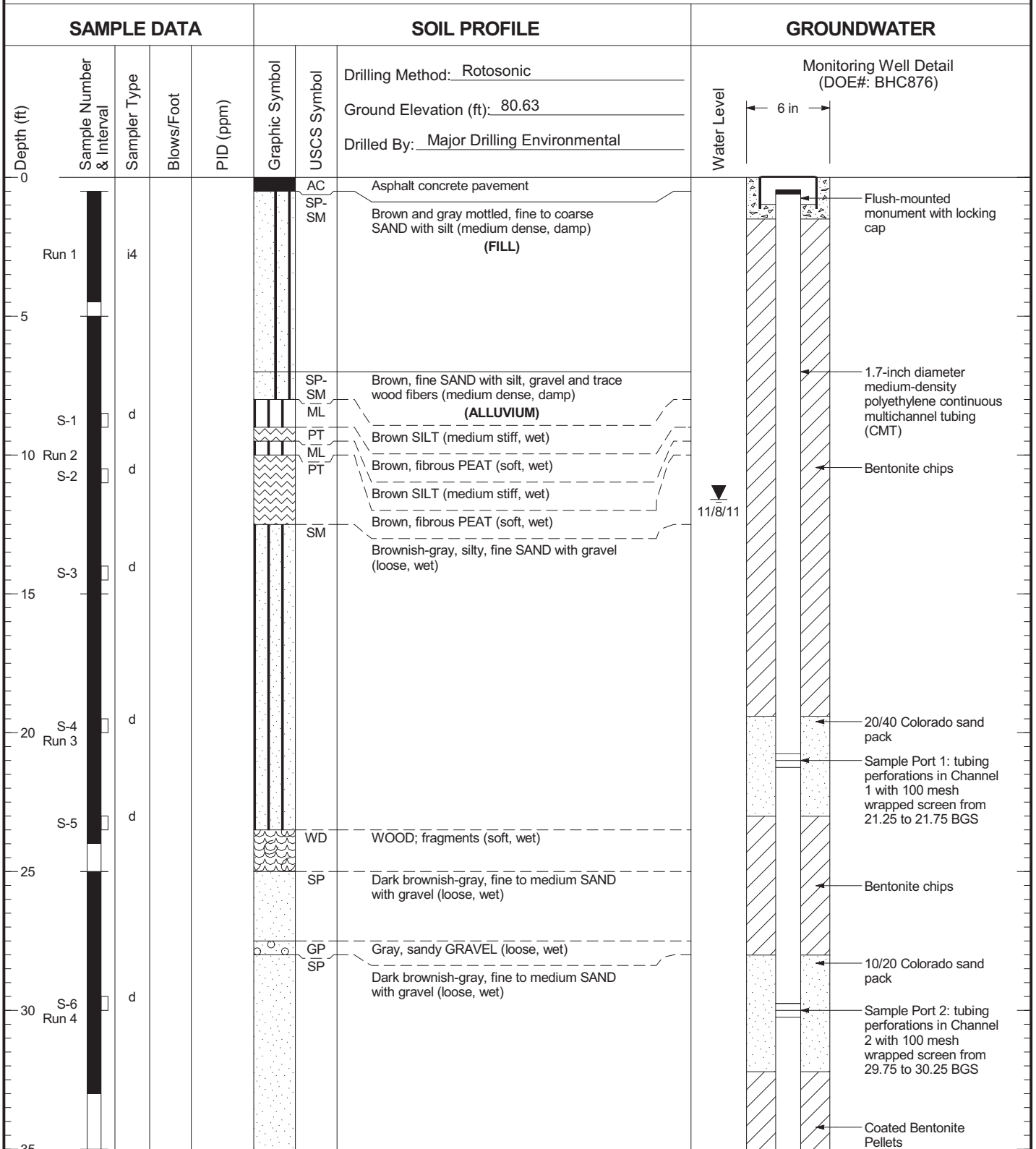


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW209

Figure  
C-178  
(3 of 3)

# AGW210



- 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. DOE Unique Well Number: BHC876

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

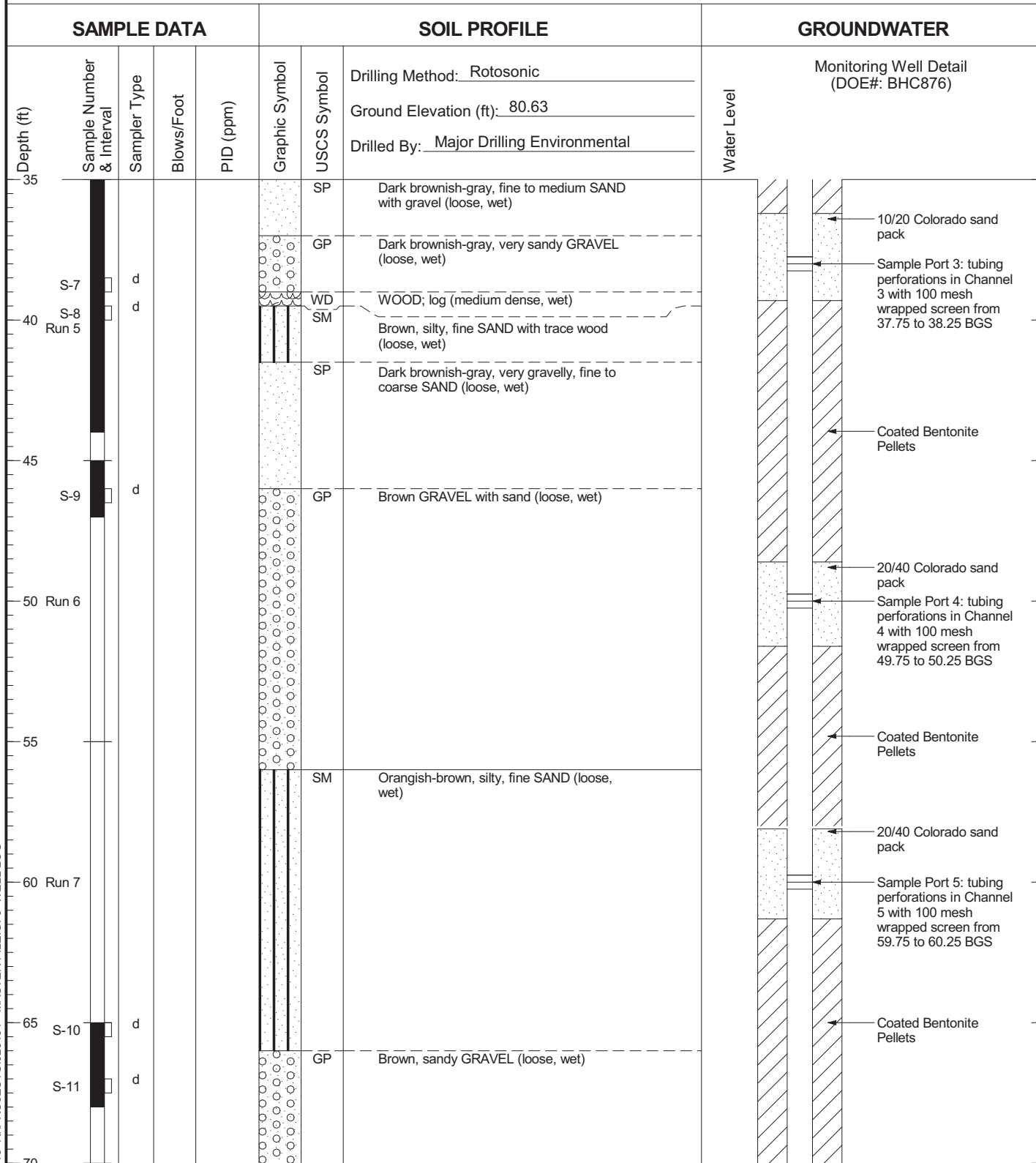


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW210

Figure  
C-179  
(1 of 3)

# AGW210



- 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. DOE Unique Well Number: BHC876

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

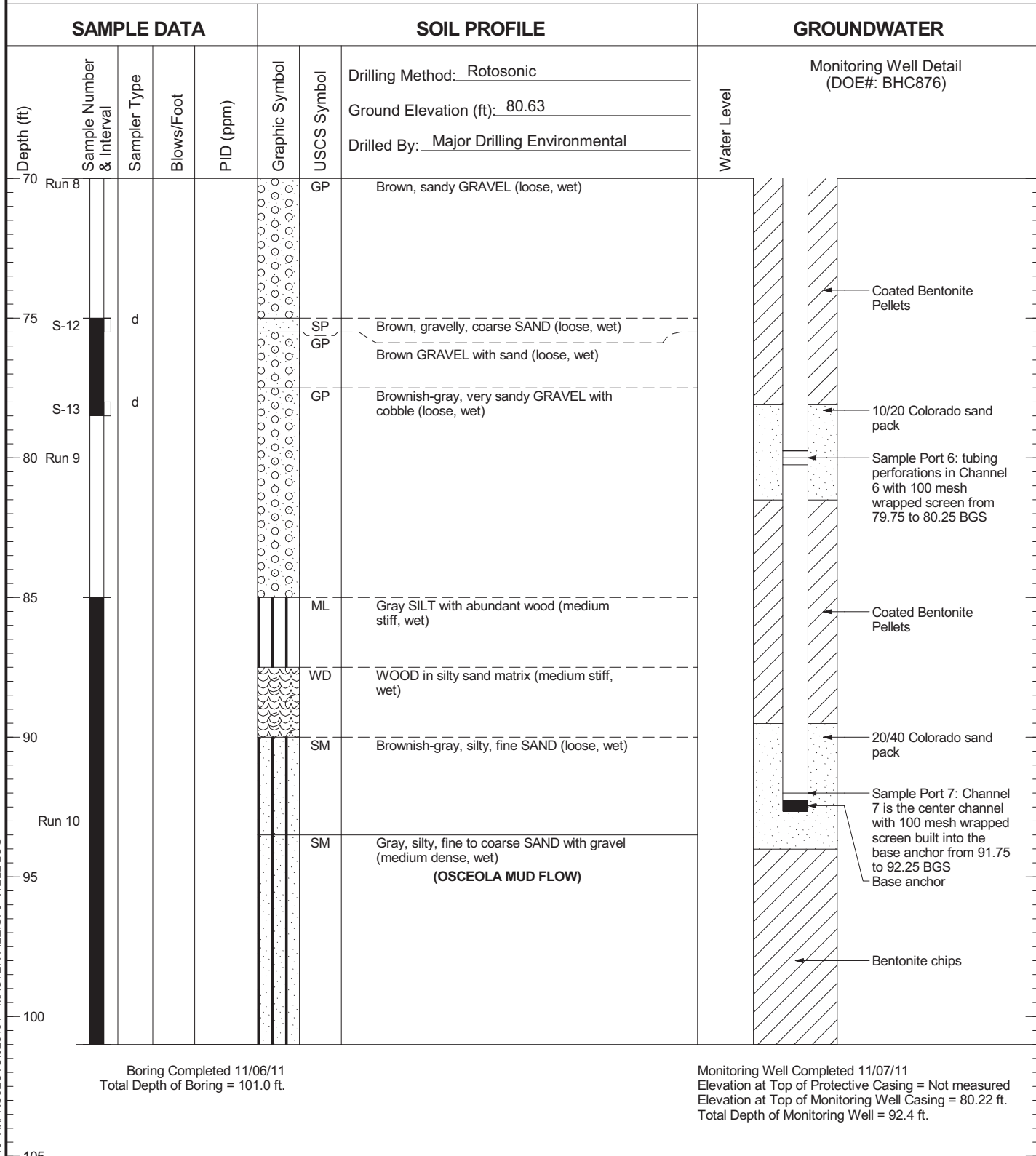


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW210

Figure  
C-179  
(2 of 3)

# AGW210



Boring Completed 11/06/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 11/07/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 80.22 ft.  
Total Depth of Monitoring Well = 92.4 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. DOE Unique Well Number: BHC876

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

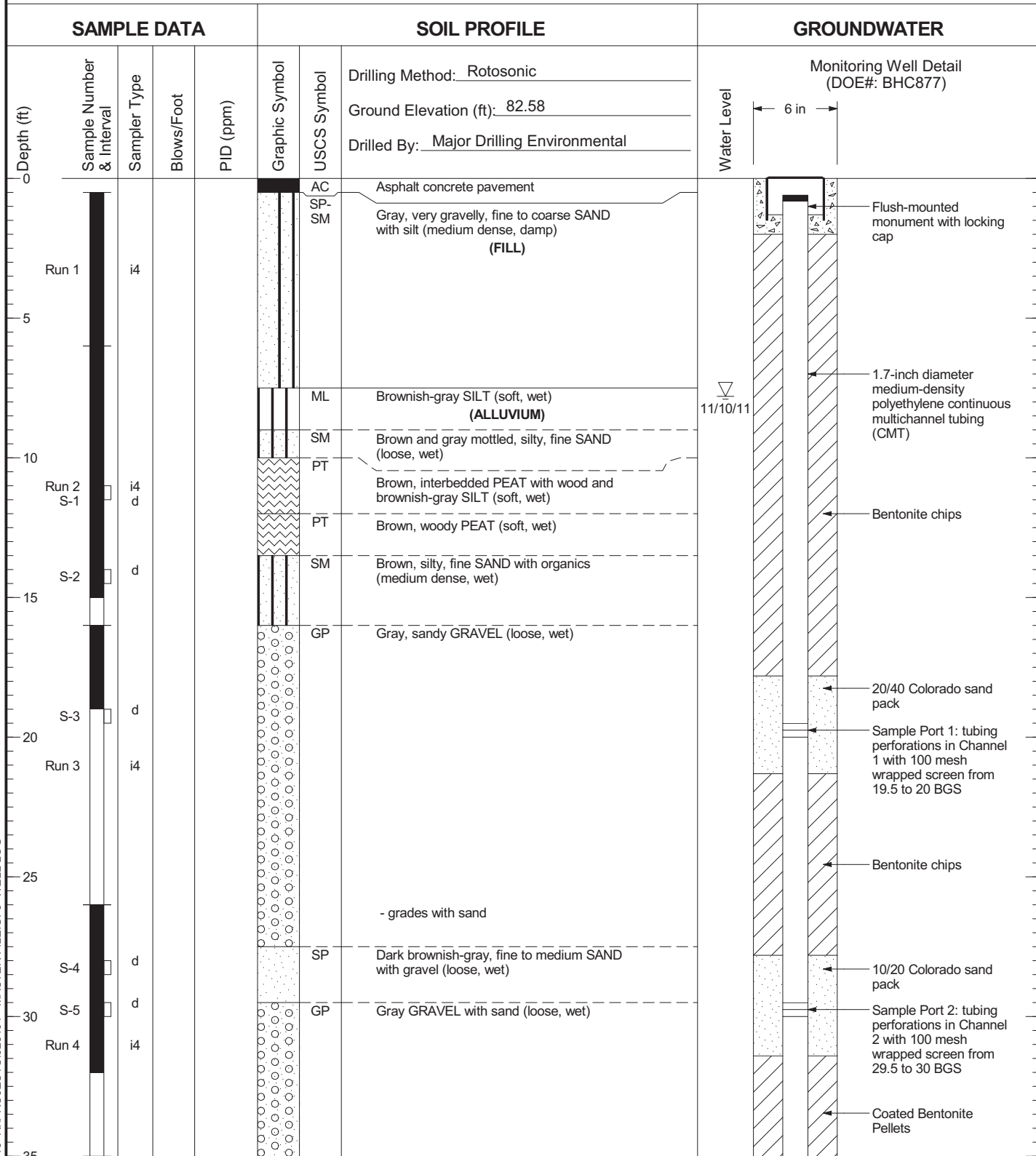


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW210

Figure  
C-179  
(3 of 3)

# AGW211



025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL 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. DOE Unique Well Number: BHC877

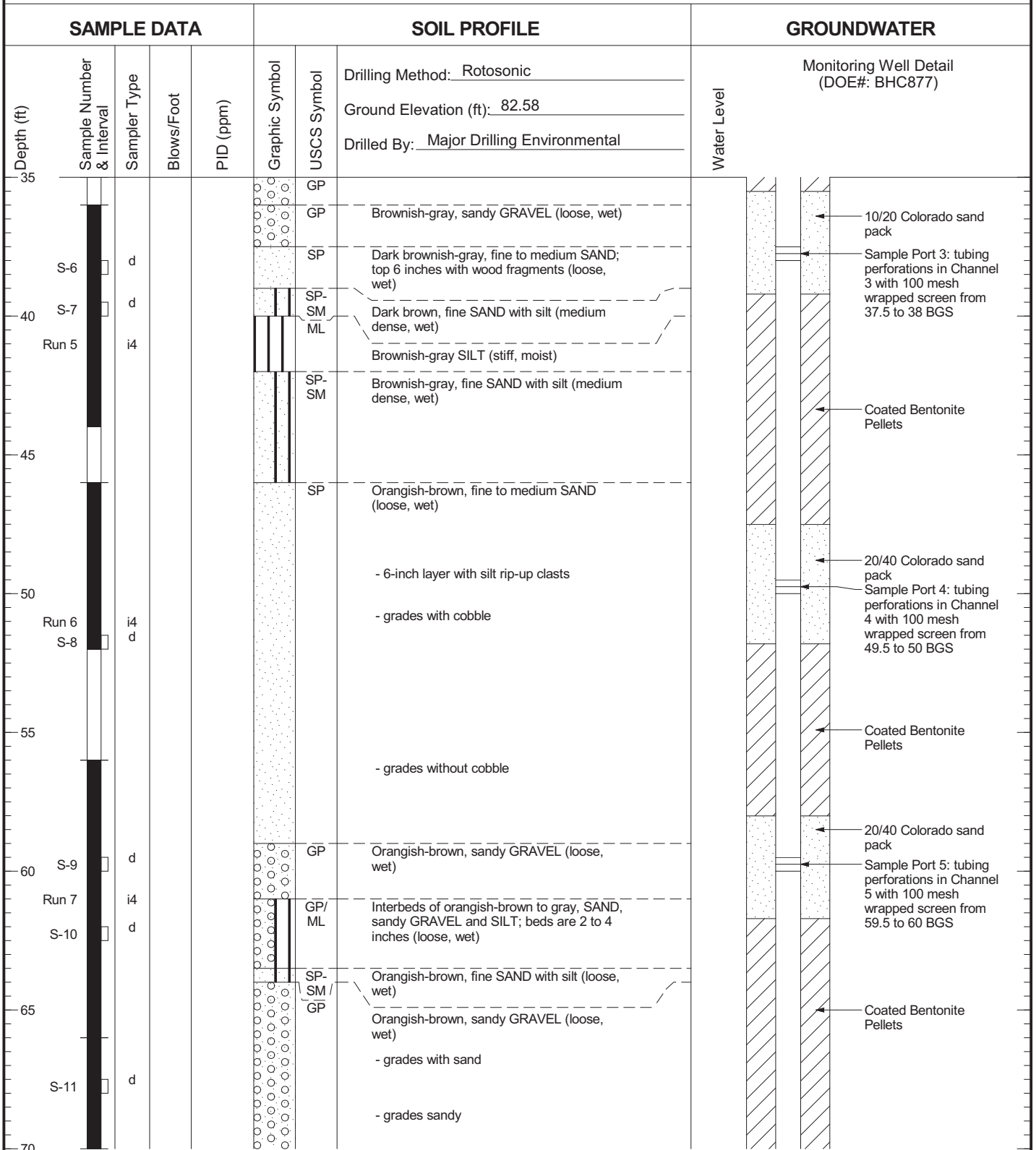


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW211

Figure  
C-180  
(1 of 3)

# AGW211



- 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. DOE Unique Well Number: BHC877

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

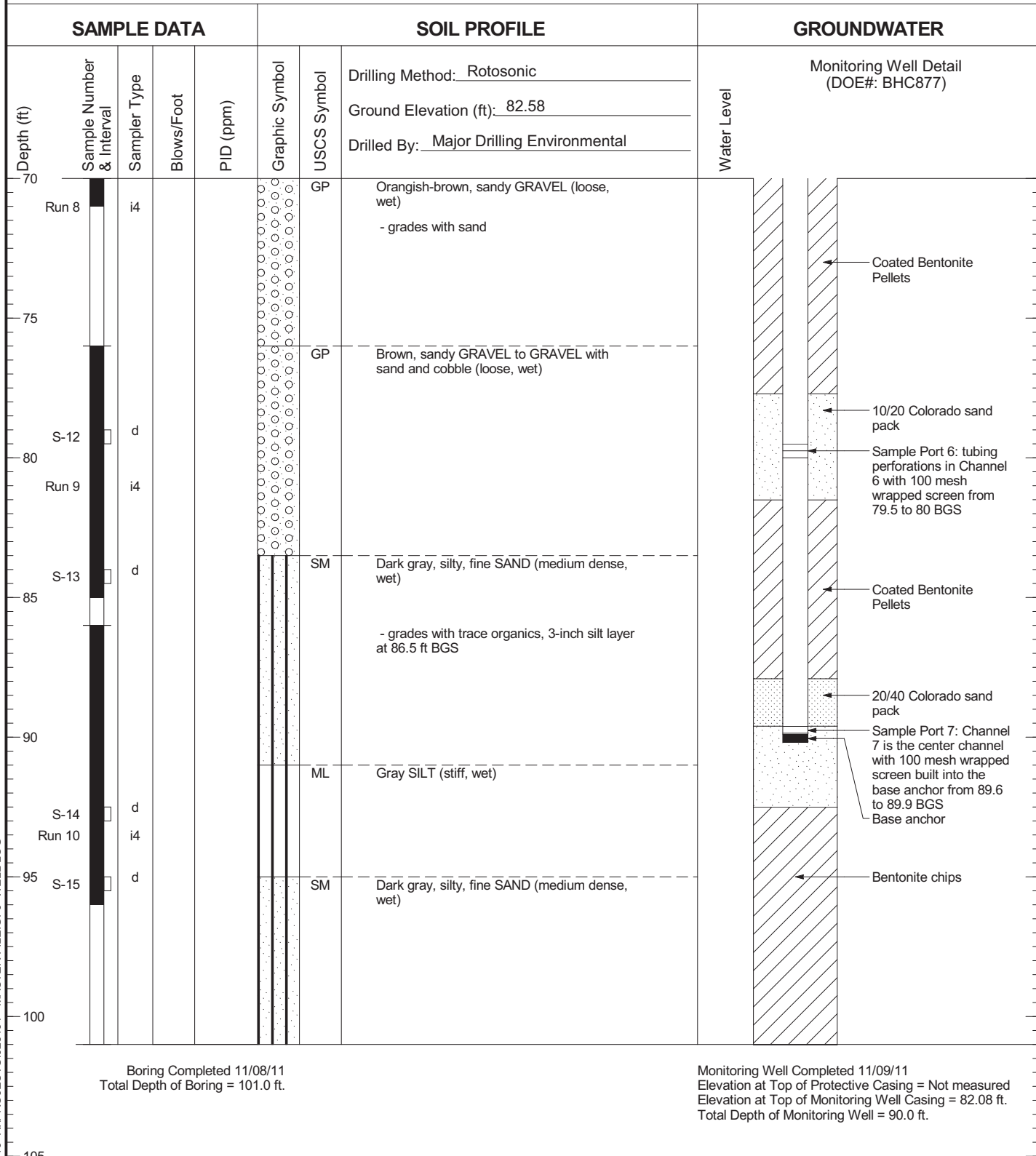


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW211

Figure  
C-180  
(2 of 3)

# AGW211



Boring Completed 11/08/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 11/09/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 82.08 ft.  
Total Depth of Monitoring Well = 90.0 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. DOE Unique Well Number: BHC877

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



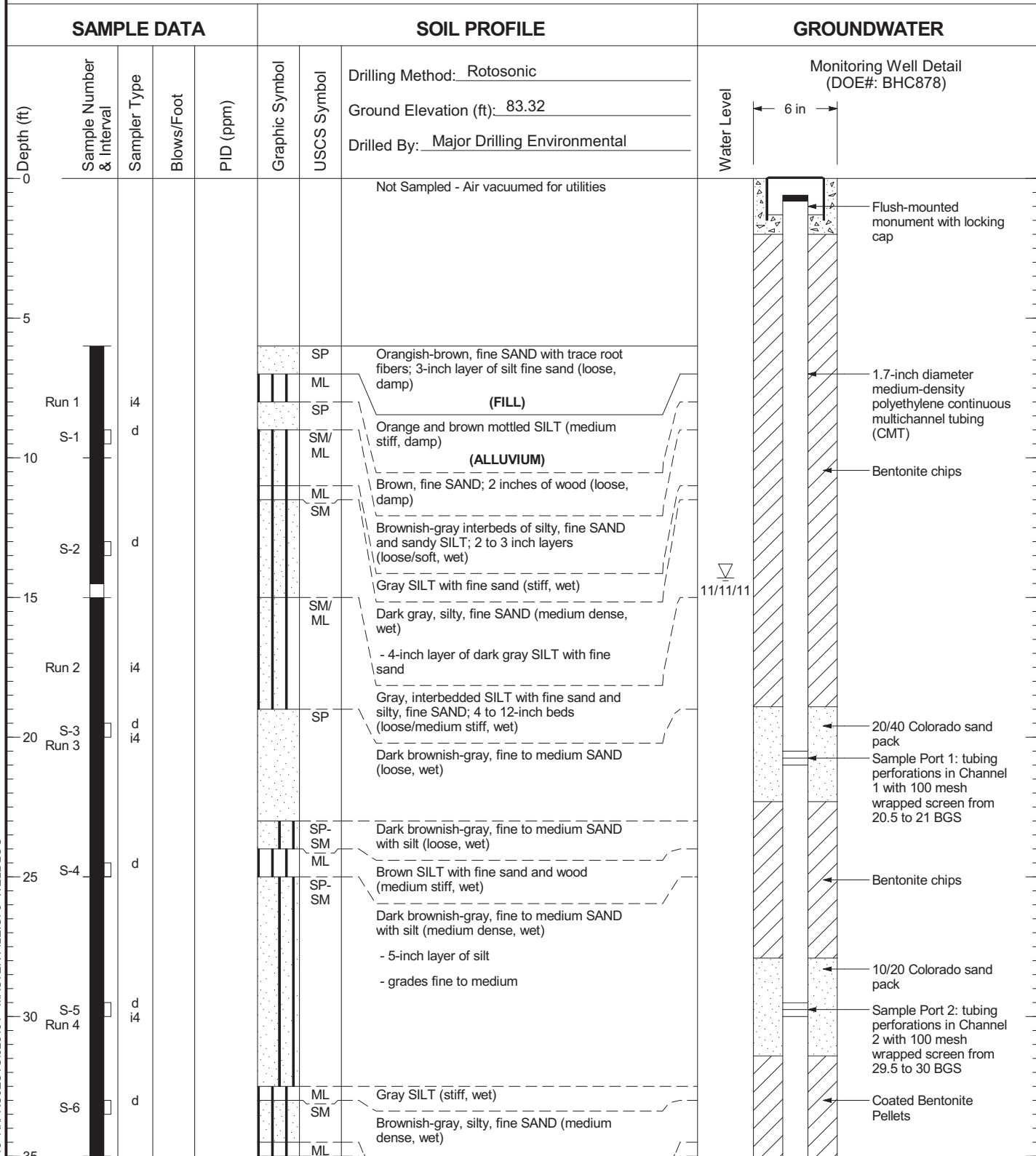
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW211

Figure  
C-180  
(3 of 3)



# AGW212



- 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. DOE Unique Well Number: BHC878

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

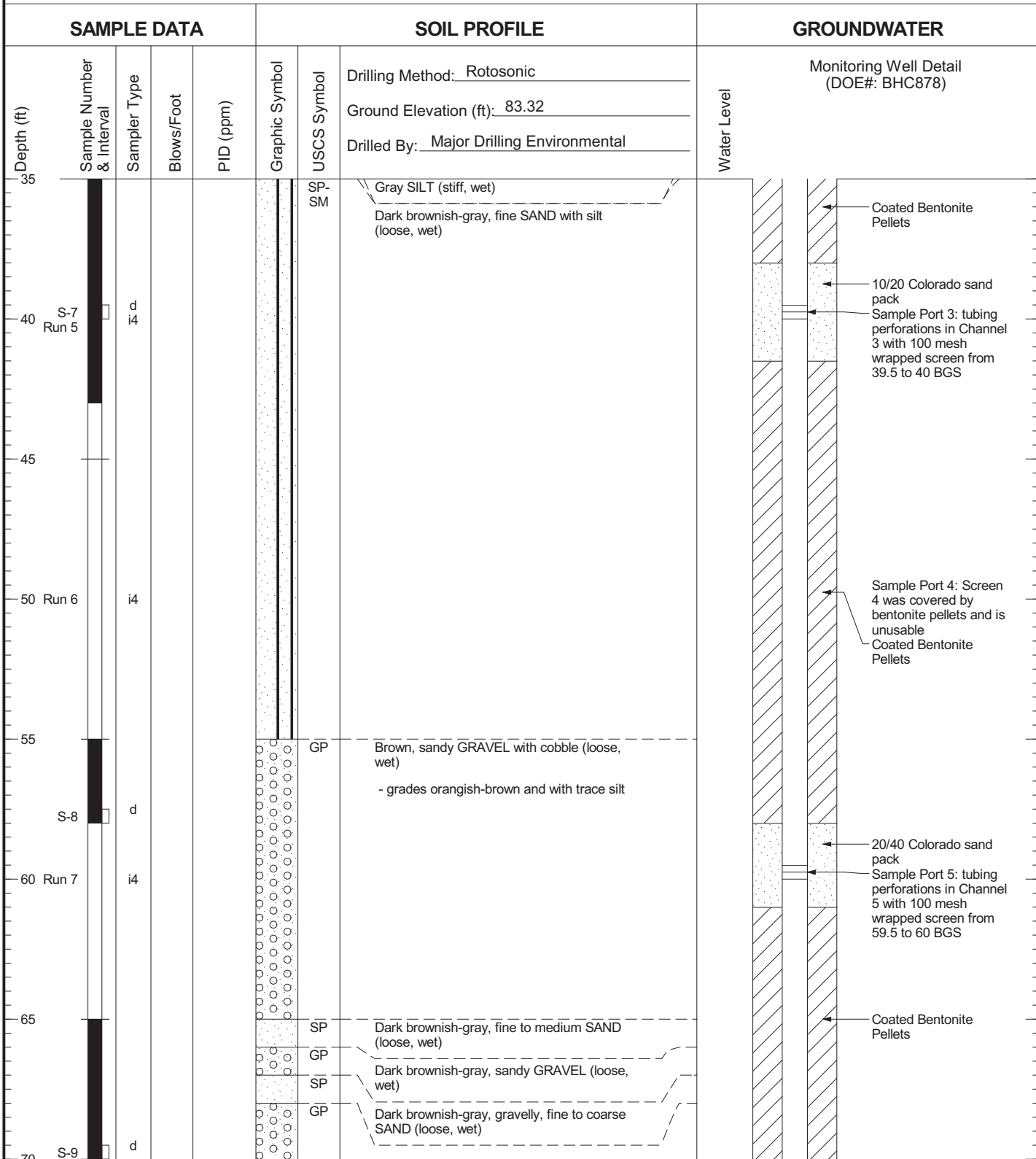


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW212

Figure  
C-181  
(1 of 3)

# AGW212

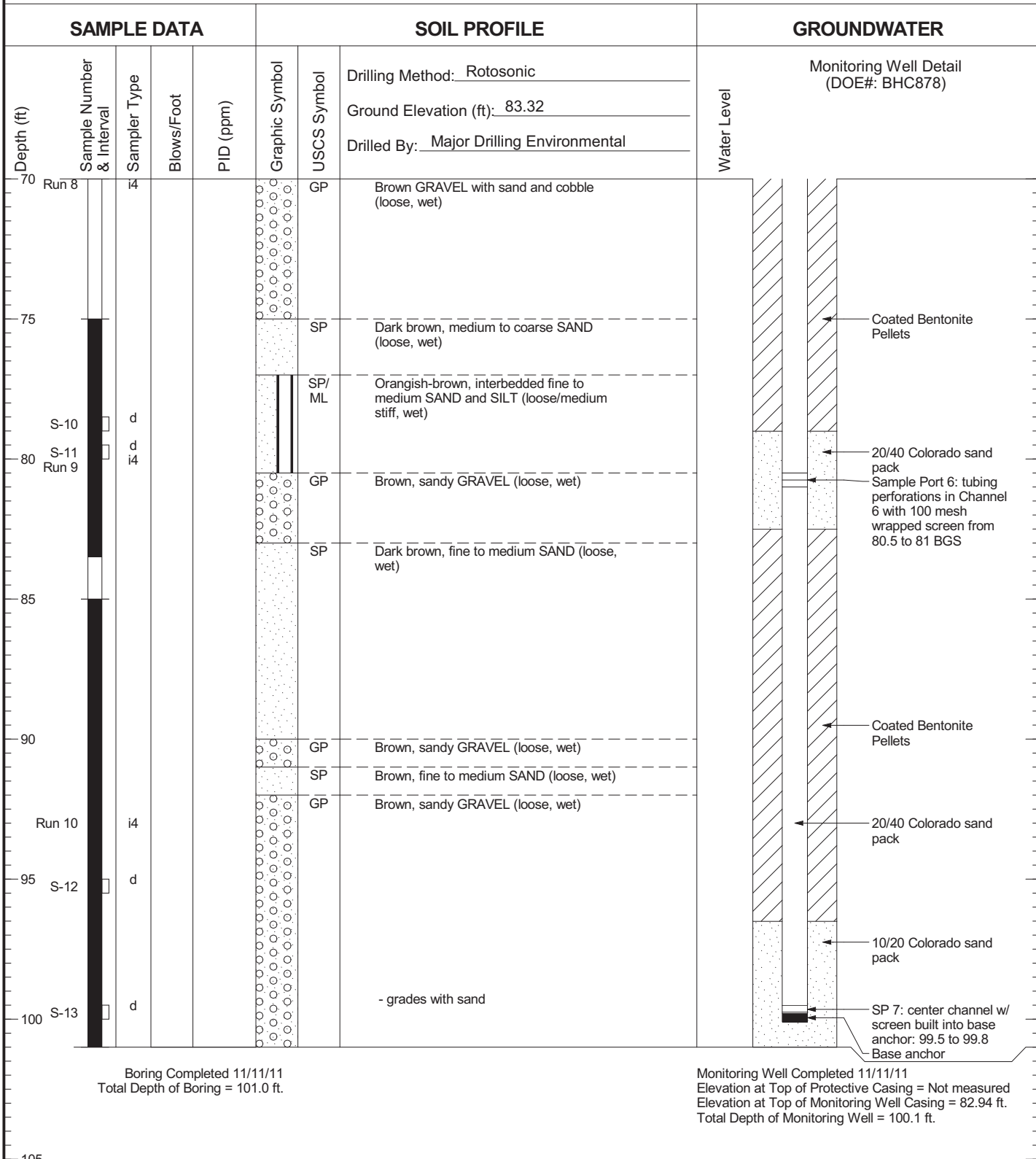


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BHC878

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW212



Boring Completed 11/11/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 11/11/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 82.94 ft.  
Total Depth of Monitoring Well = 100.1 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. DOE Unique Well Number: BHC878

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

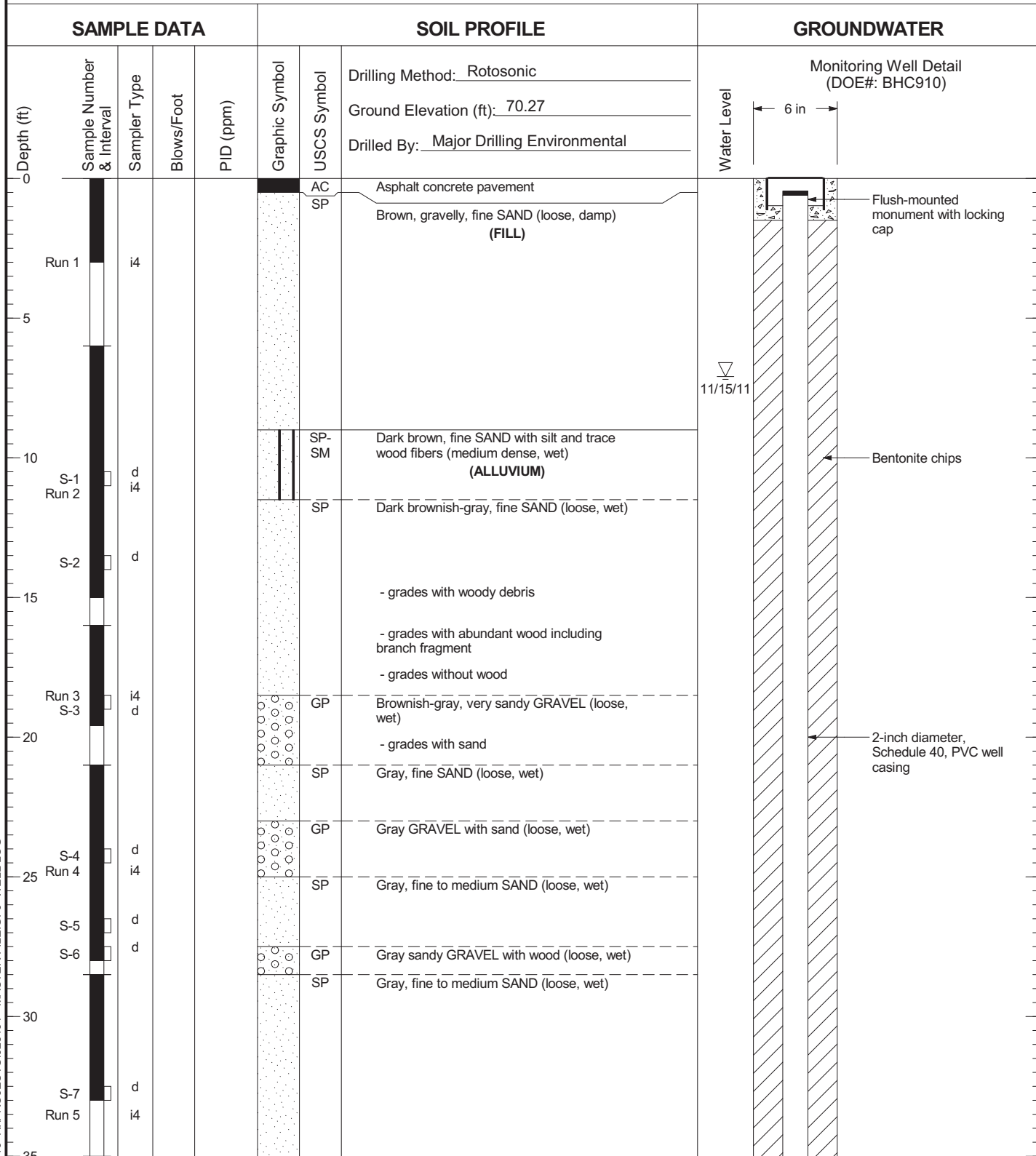


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW212

Figure  
C-181  
(3 of 3)

# AGW213



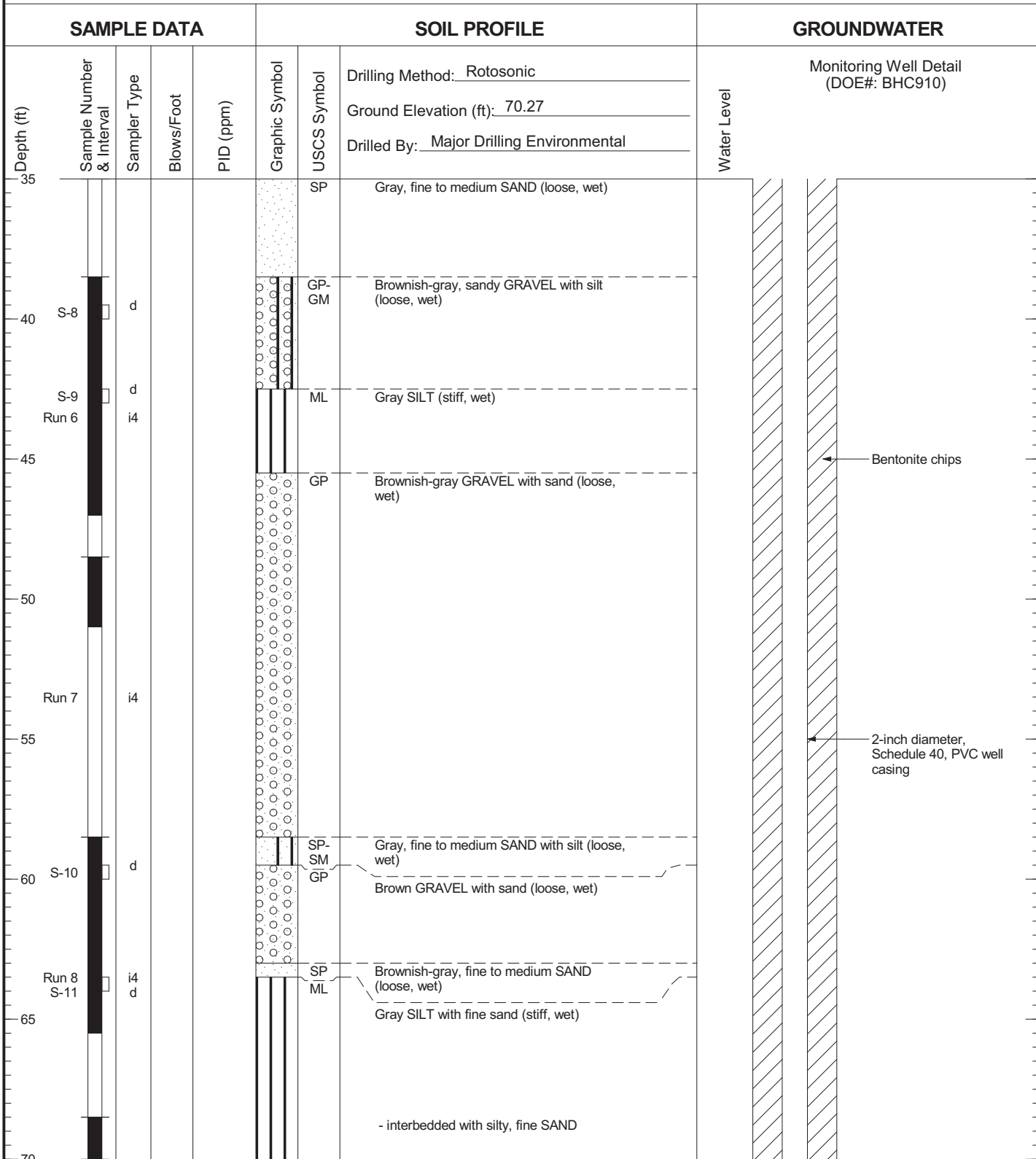
11/15/11

- 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. DOE Unique Well Number: BHC910

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW213

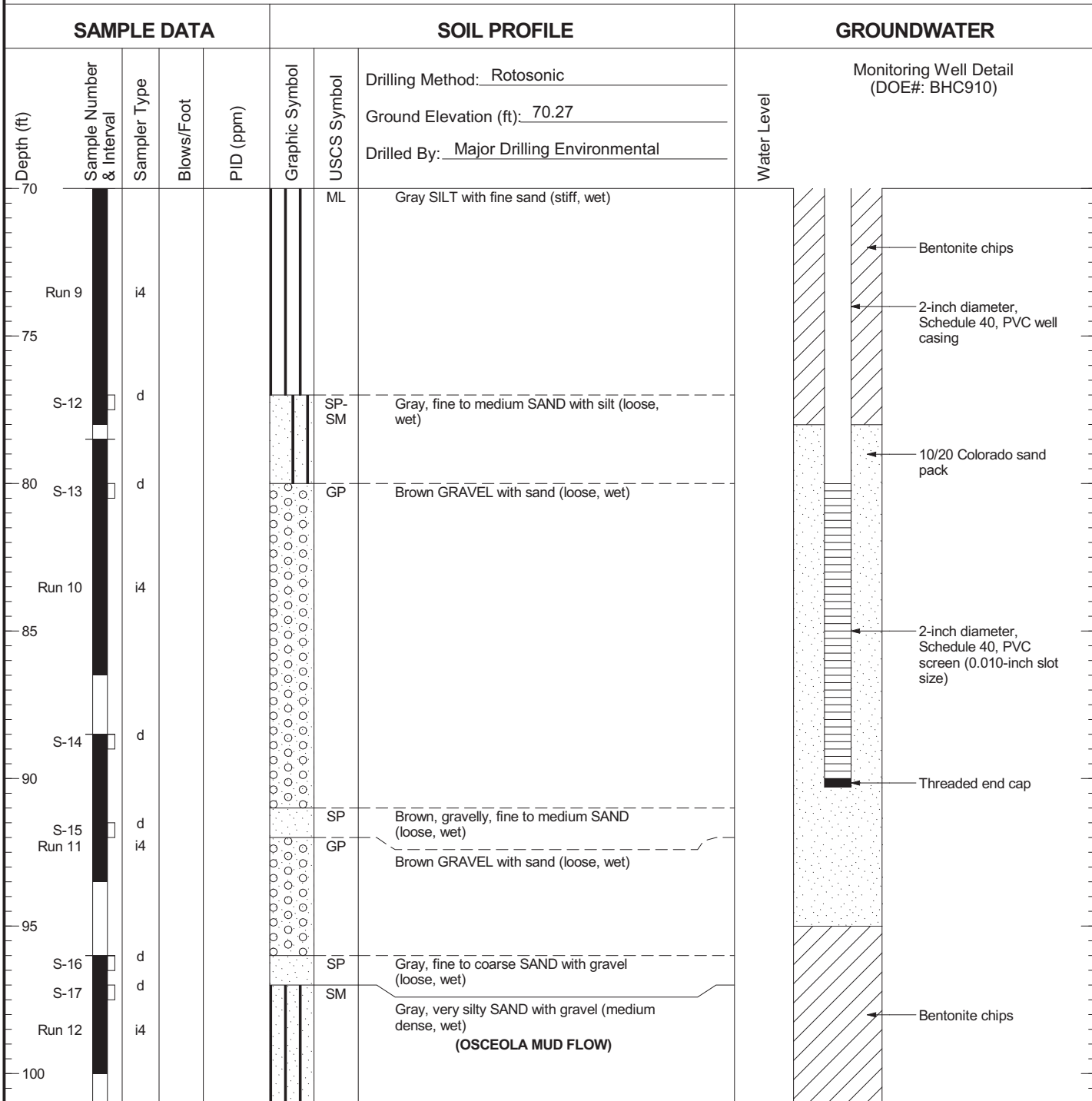


- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BHC910

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW213



Boring Completed 11/15/11  
Total Depth of Boring = 101.0 ft.

Monitoring Well Completed 11/15/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 69.98 ft.  
Total Depth of Monitoring Well = 89.2 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. DOE Unique Well Number: BHC910

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

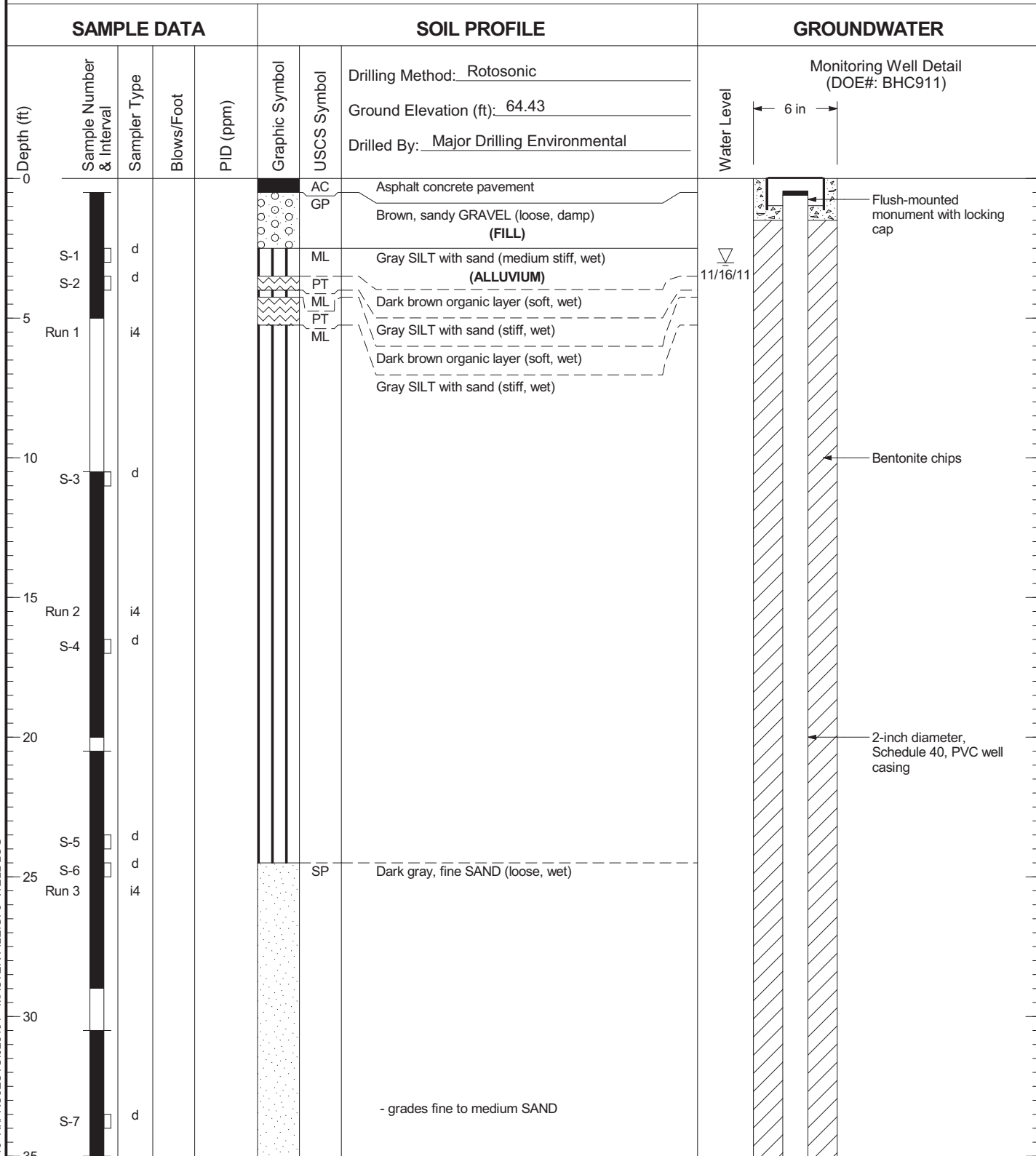


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW213

Figure  
C-182  
(3 of 3)

# AGW214



- 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. DOE Unique Well Number: BHC911

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

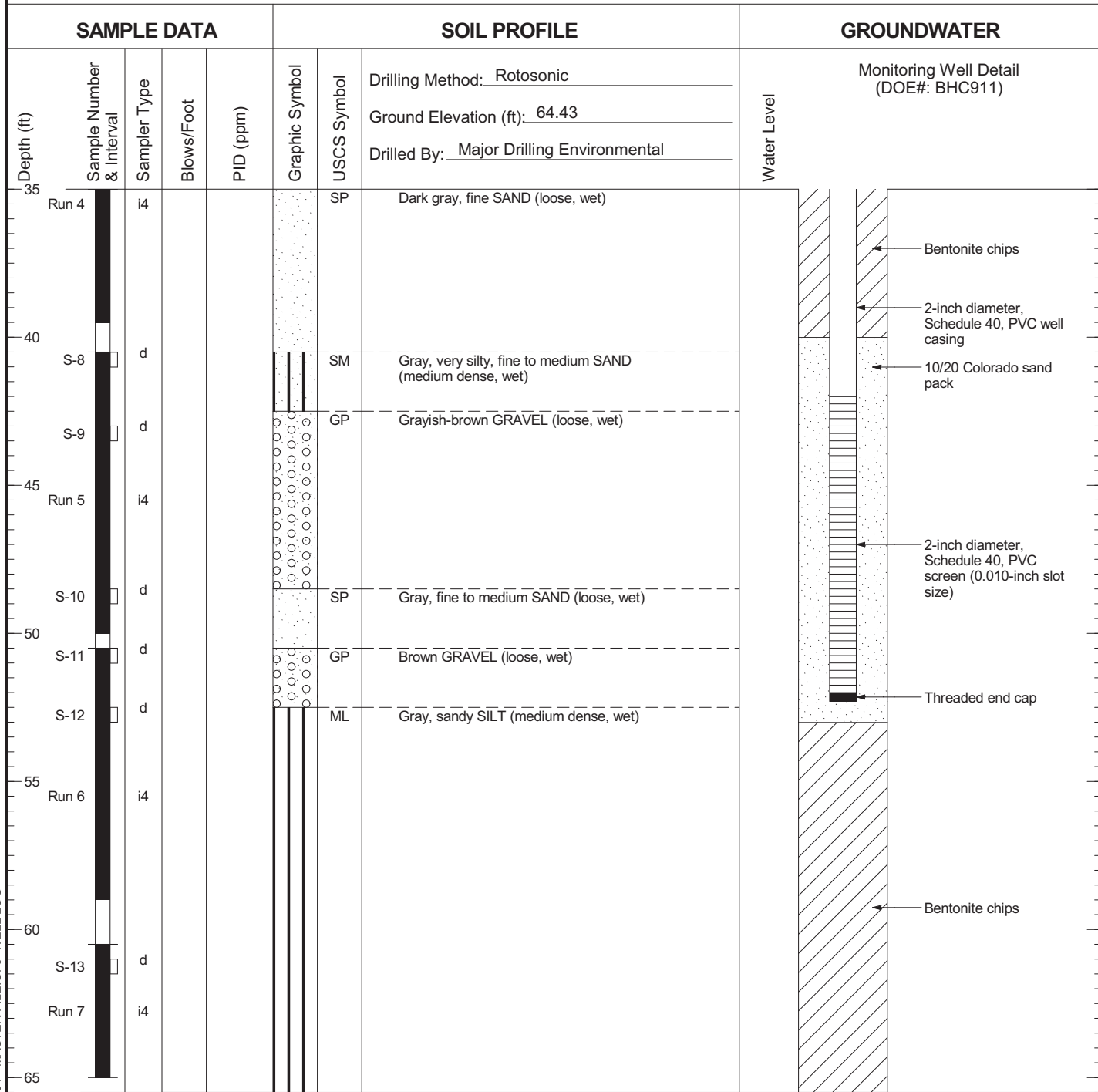


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW214

Figure  
C-183  
(1 of 2)

# AGW214



Boring Completed 11/15/11  
Total Depth of Boring = 65.5 ft.

Monitoring Well Completed 11/15/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 63.94 ft.  
Total Depth of Monitoring Well = 50.3 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. DOE Unique Well Number: BHC911

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



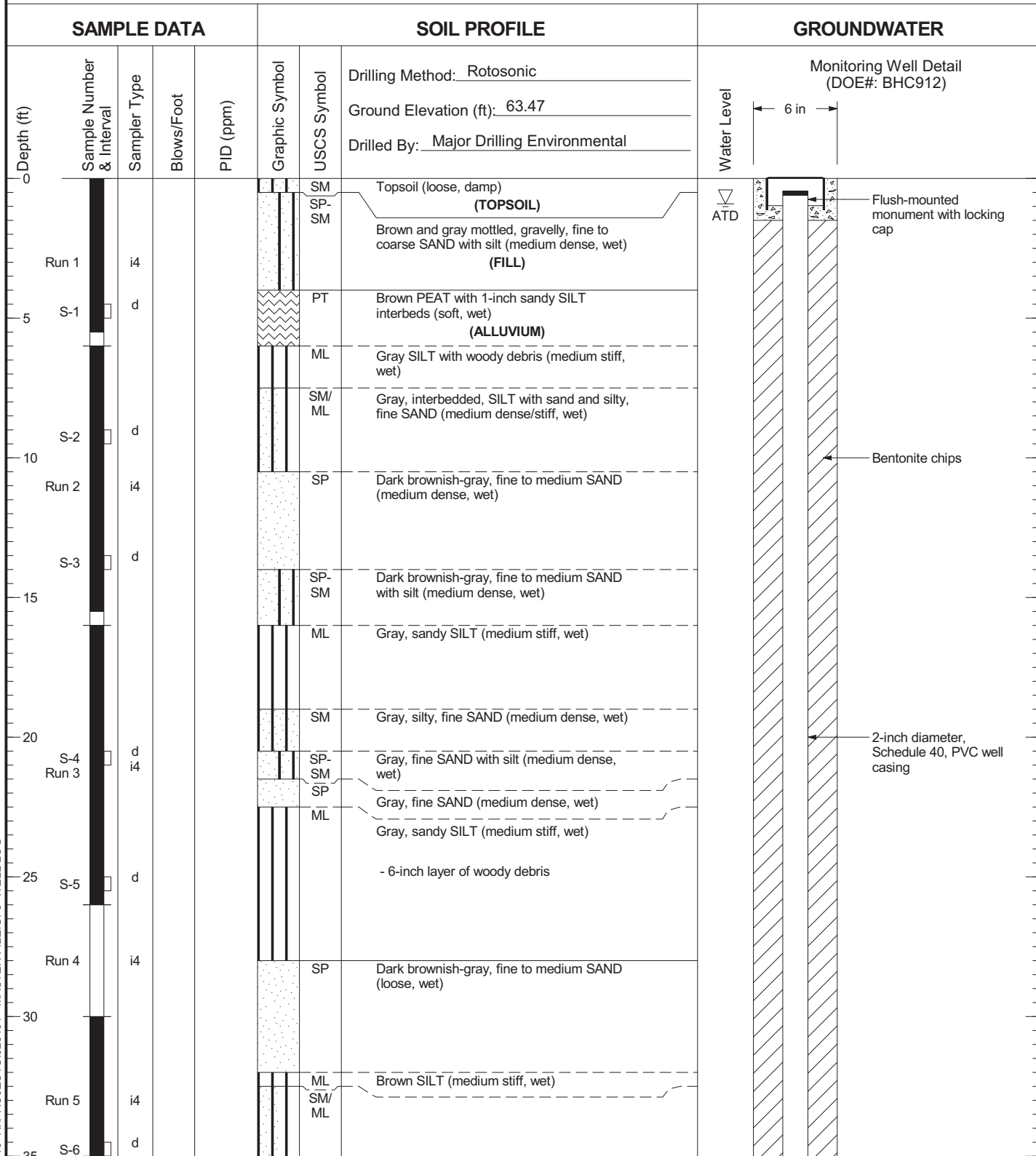
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW214

Figure  
C-183  
(2 of 2)



# AGW215



- 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. DOE Unique Well Number: BHC912

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

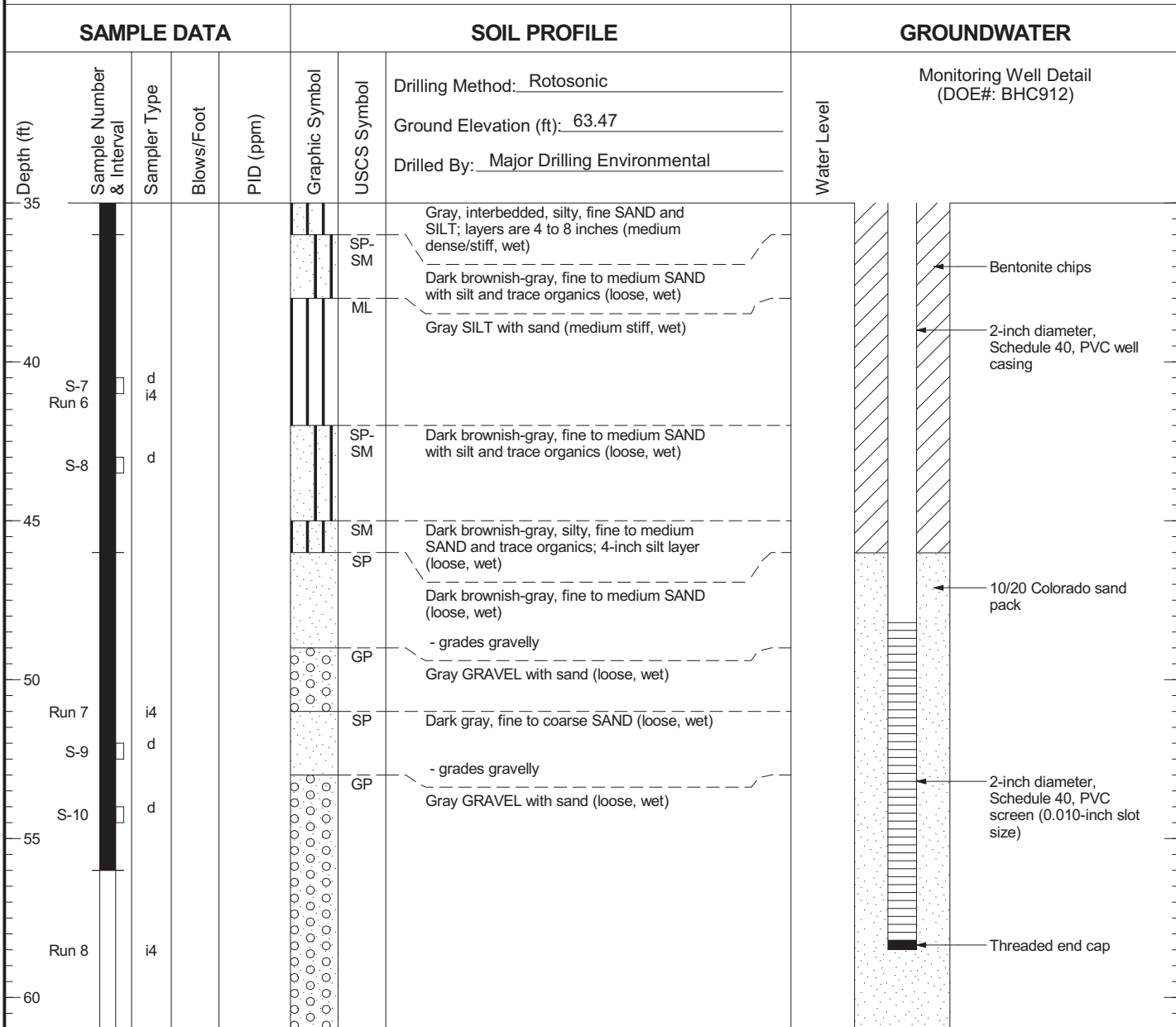


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW215

Figure  
C-184  
(1 of 2)

# AGW215



Boring Completed 11/16/11  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 11/16/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 63.19 ft.  
Total Depth of Monitoring Well = 57.9 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. DOE Unique Well Number: BHC912

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

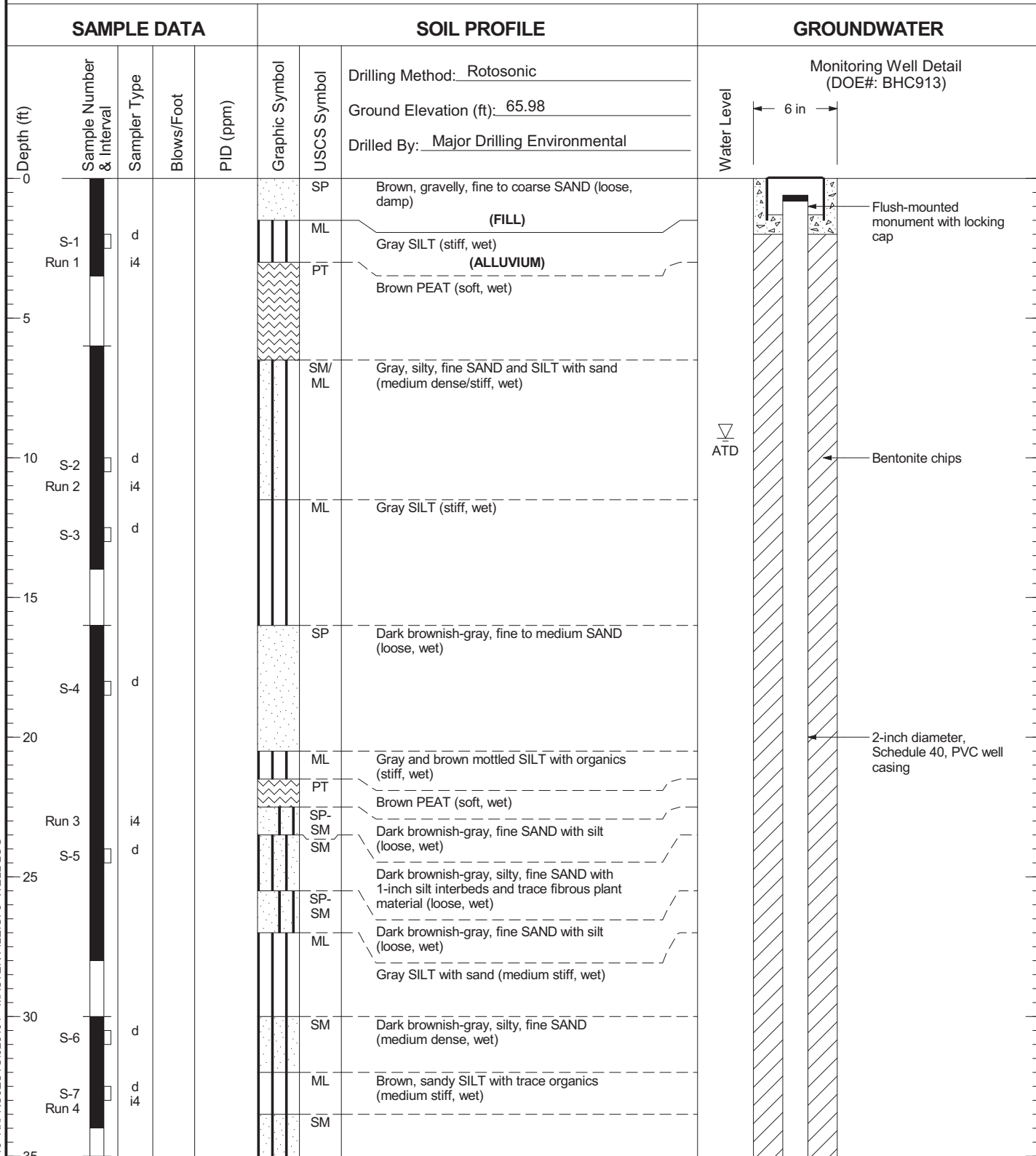


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW215

Figure  
C-184  
(2 of 2)

# AGW216



- 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. DOE Unique Well Number: BHC913

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

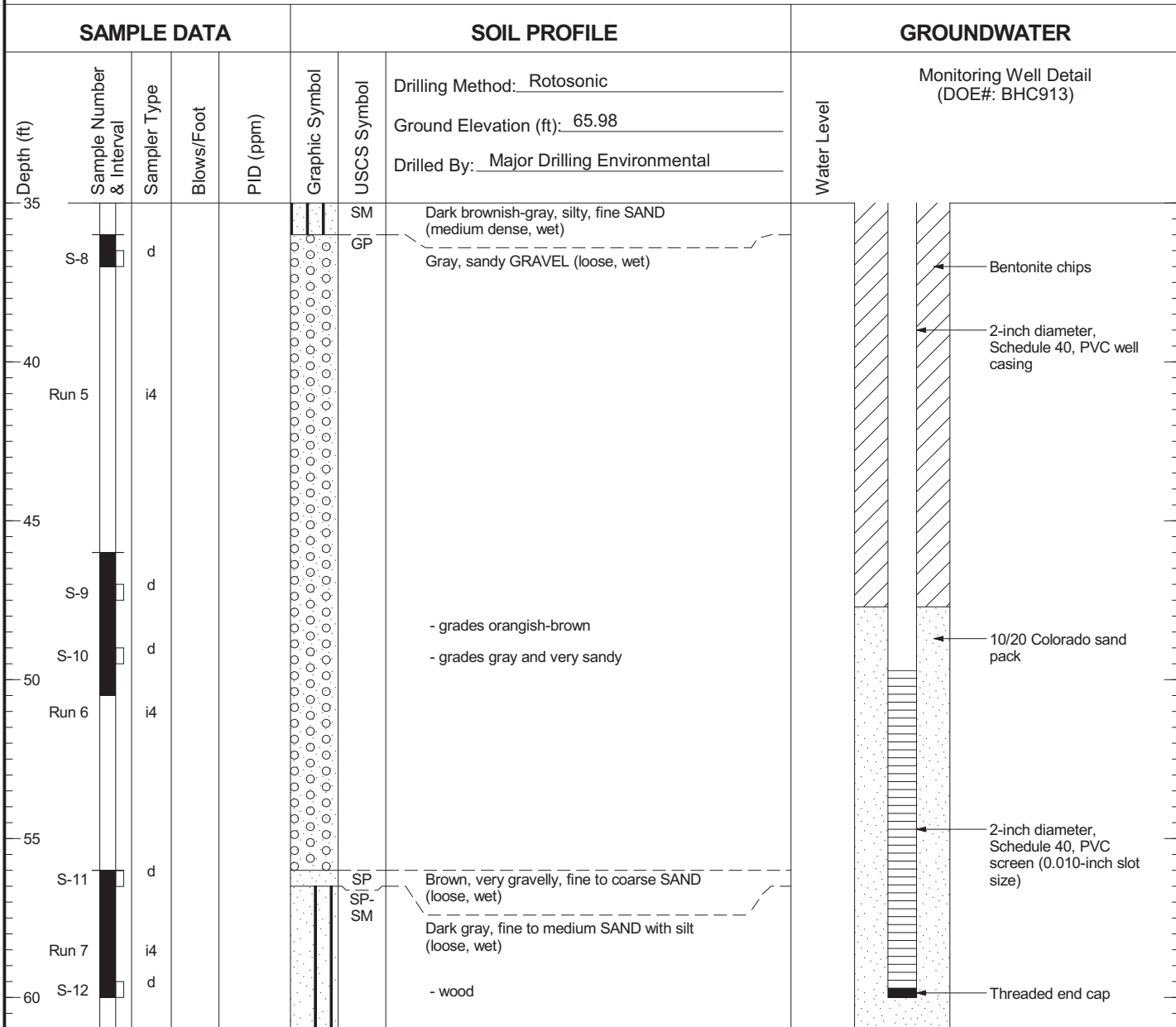


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW216

Figure  
C-185  
(1 of 2)

# AGW216



Boring Completed 11/17/11  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 11/17/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 65.60 ft.  
Total Depth of Monitoring Well = 59.4 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. DOE Unique Well Number: BHC913

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

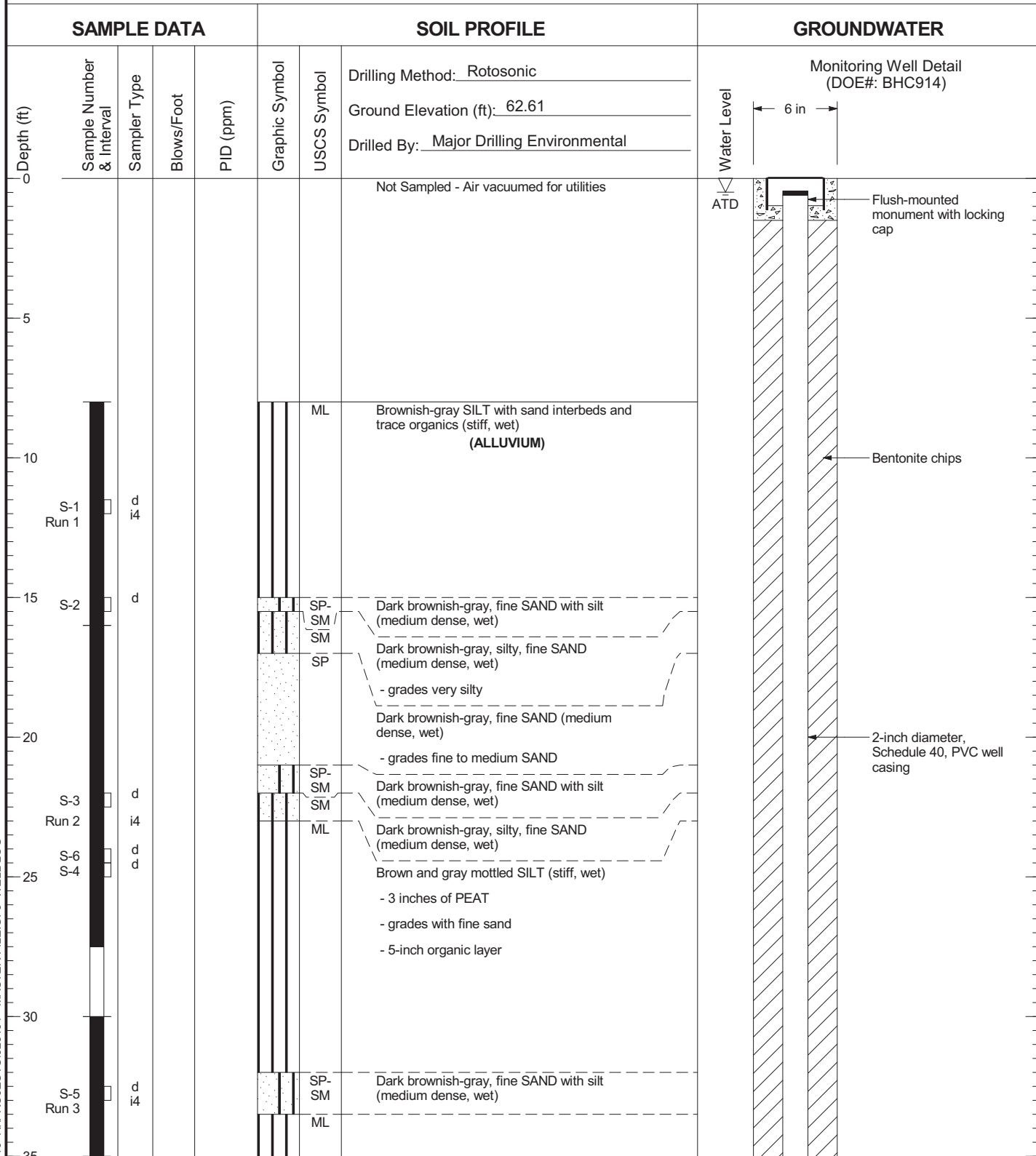


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW216

Figure  
C-185  
(2 of 2)

# AGW217



- 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. DOE Unique Well Number: BHC914

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

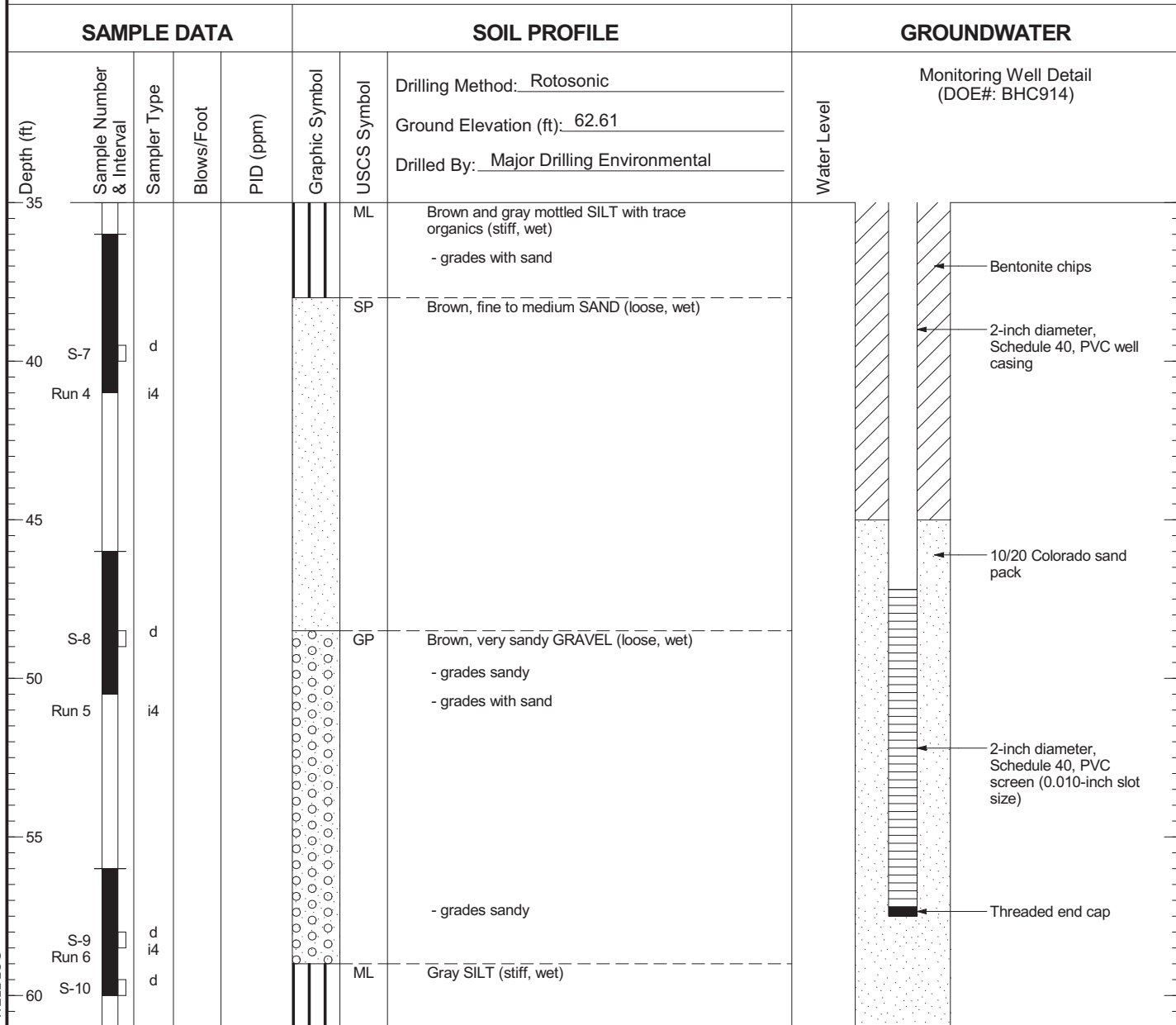


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW217

Figure  
C-186  
(1 of 2)

# AGW217



Boring Completed 11/18/11  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 11/18/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 62.19 ft.  
Total Depth of Monitoring Well = 54.8 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. DOE Unique Well Number: BHC914

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

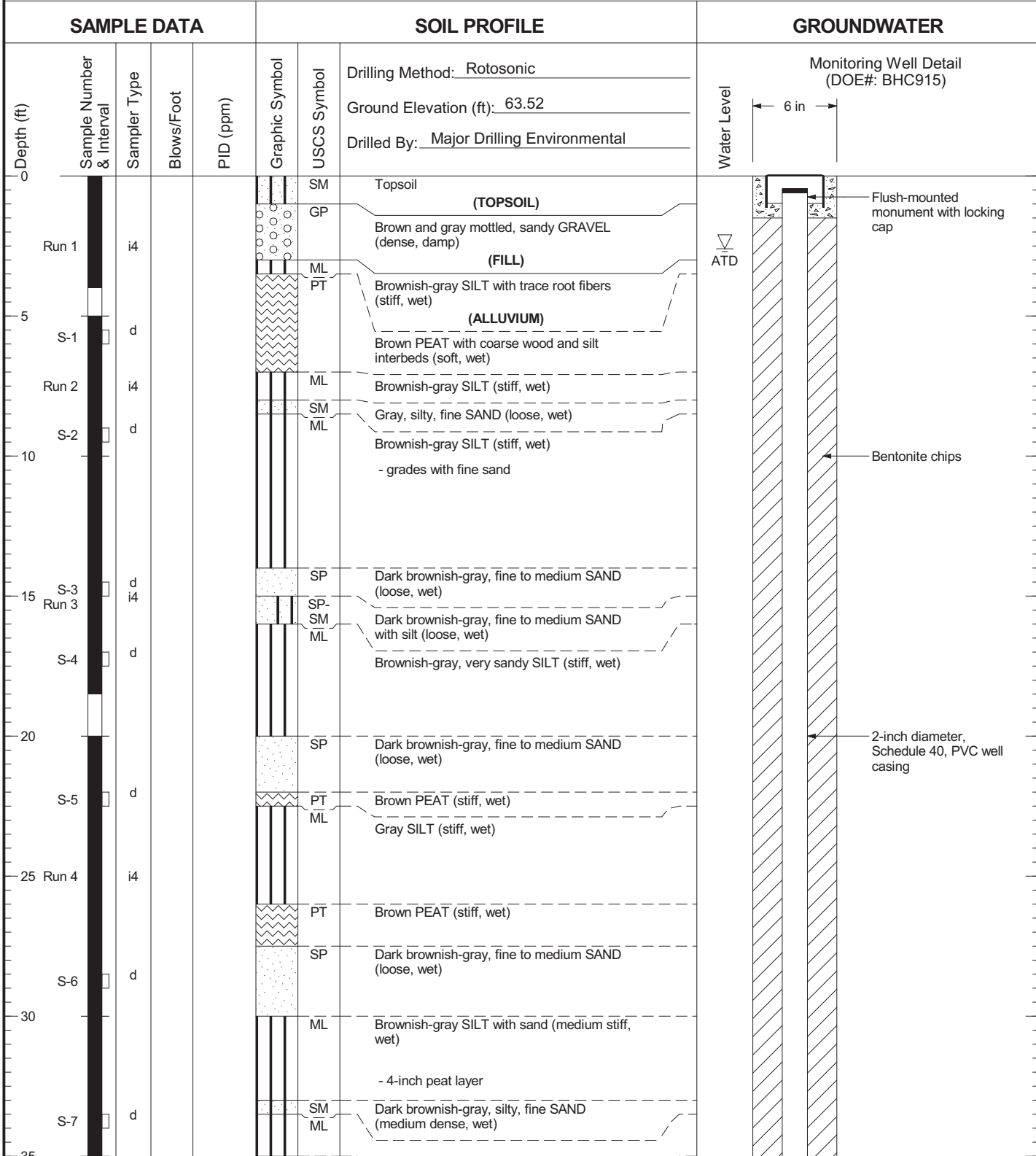


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW217

Figure  
C-186  
(2 of 2)

# AGW218



- 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. DOE Unique Well Number: BHC915

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

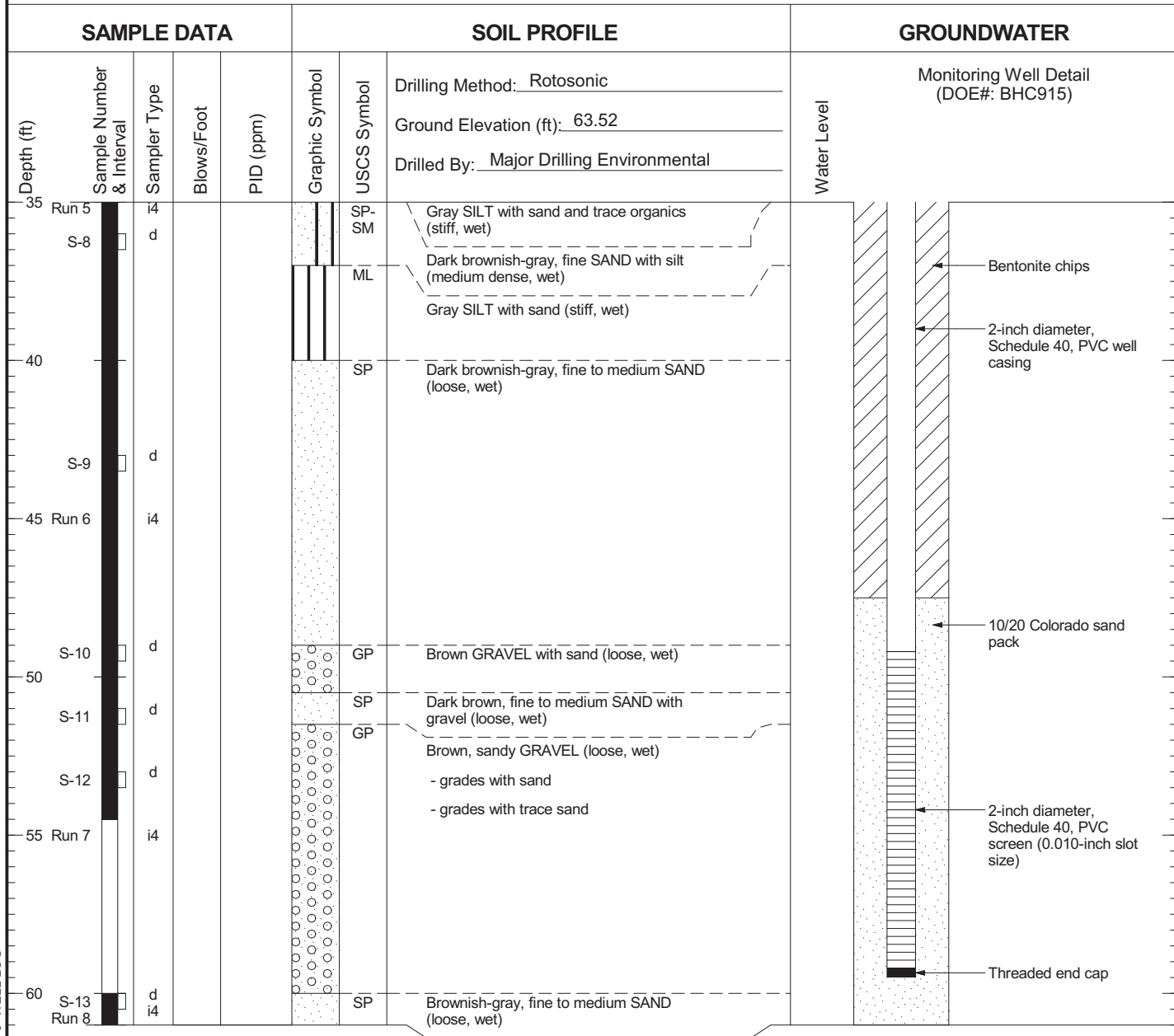


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW218

Figure  
C-187  
(1 of 2)

# AGW218



Boring Completed 11/21/11  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 11/21/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 63.21 ft.  
Total Depth of Monitoring Well = 59.4 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. DOE Unique Well Number: BHC915

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



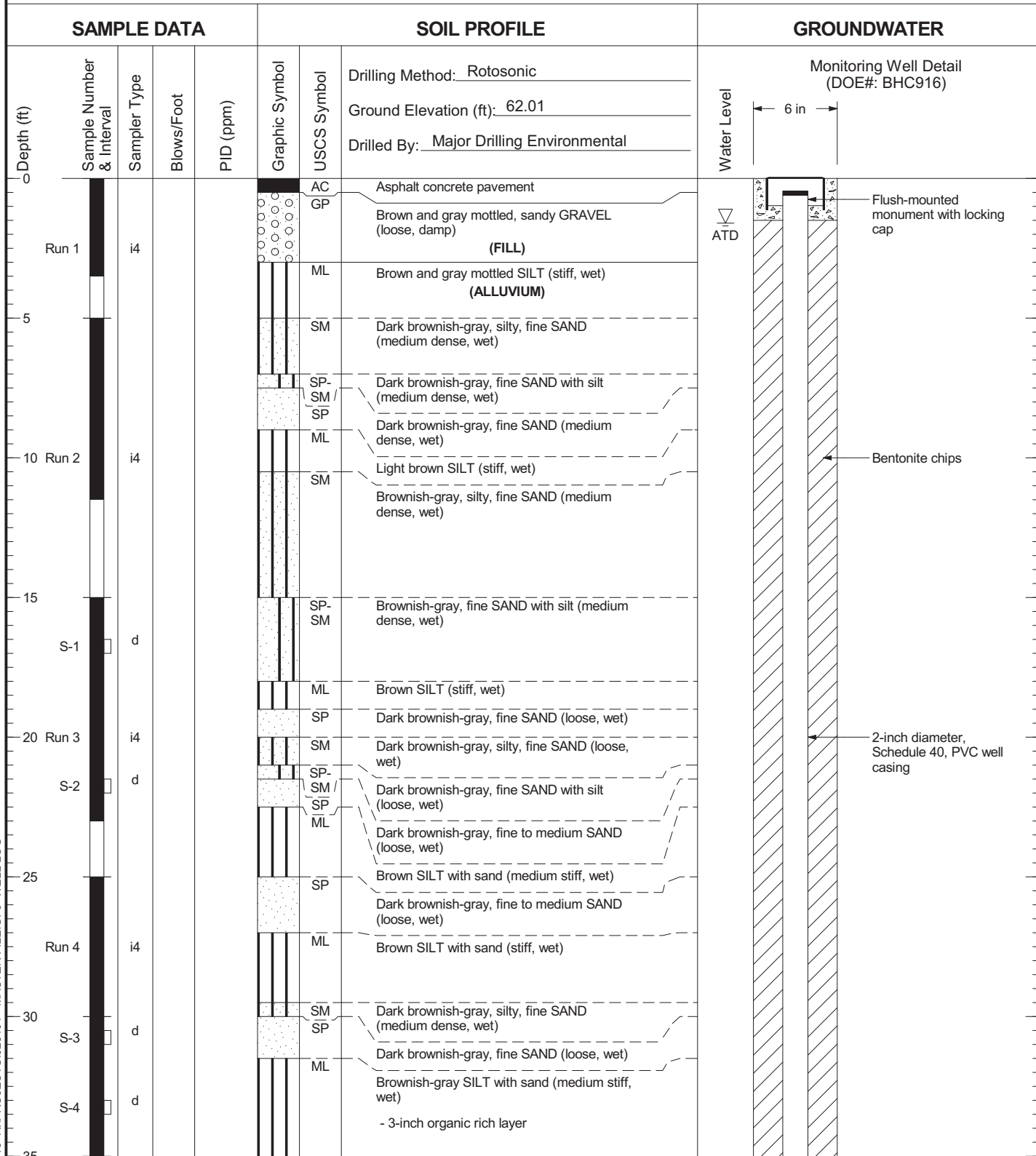
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW218

Figure  
C-187  
(2 of 2)



# AGW219



- 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. DOE Unique Well Number: BHC916

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW219

Figure  
C-188  
(1 of 2)

# AGW219

SAMPLE DATA		SOIL PROFILE				GROUNDWATER			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BHC916)
							Ground Elevation (ft): <u>62.01</u>		
							Drilled By: <u>Major Drilling Environmental</u>		
35	Run 5	i4			ML		Brownish-gray SILT with sand (medium stiff, wet)		Bentonite chips
40	S-5 S-6	d d			SP-SM GP		Dark brownish-gray, fine SAND with silt (medium dense, wet) Gray GRAVEL (loose, wet)		2-inch diameter, Schedule 40, PVC well casing 10/20 Colorado sand pack
45	Run 6	i4			GP		Gray GRAVEL (loose, wet)		2-inch diameter, Schedule 40, PVC screen (0.010-inch slot size)
50	S-7	d			SP GP		Gray, fine to medium SAND (loose, wet) Gray GRAVEL with sand and cobble (loose, wet)		Threaded end cap
55	Run 7	i4			ML		Gray SILT (stiff, wet)		Bentonite chips
60	S-8	d							

Boring Completed 11/22/11  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 11/22/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 61.63 ft.  
Total Depth of Monitoring Well = 52.4 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. DOE Unique Well Number: BHC916

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

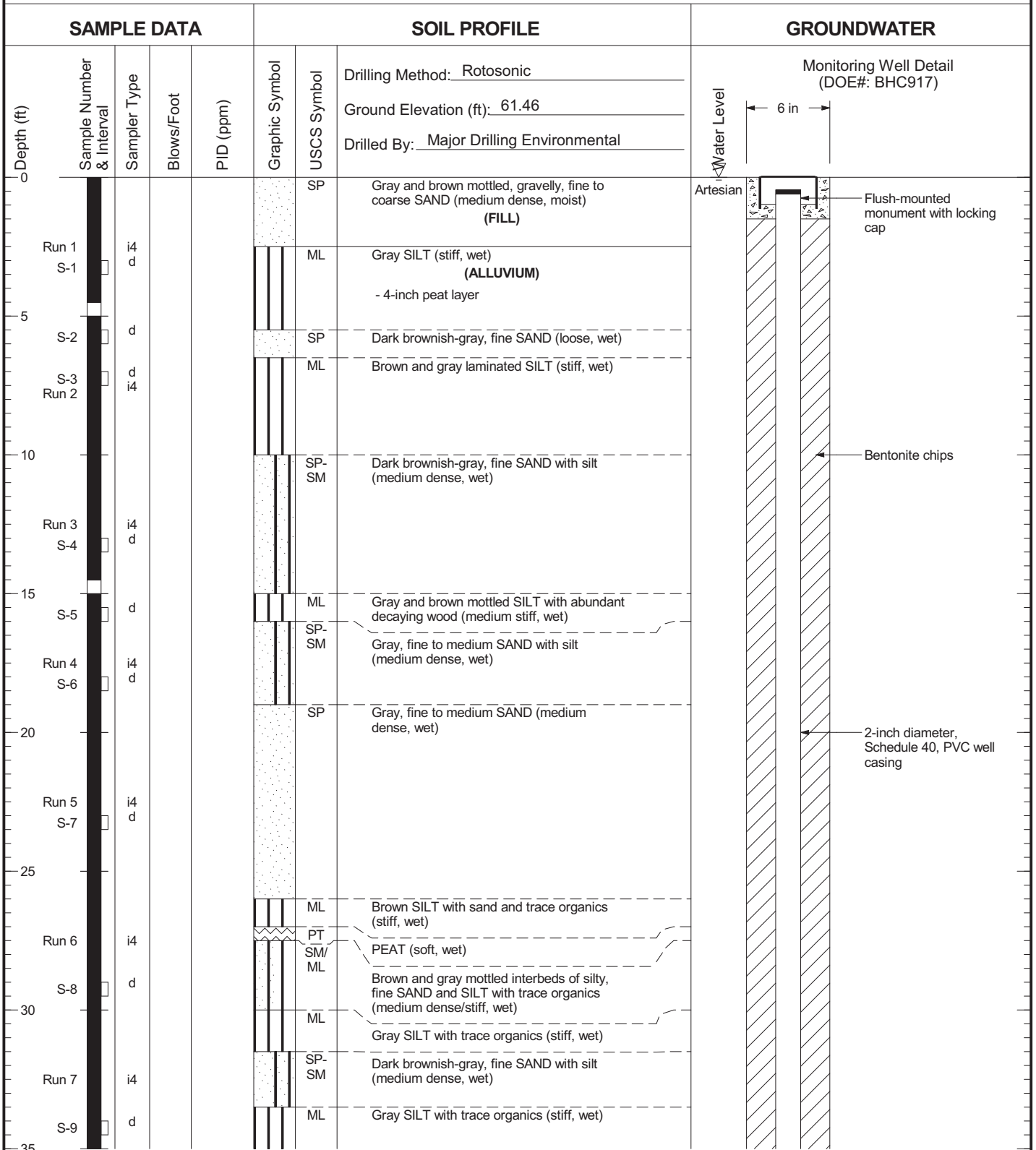


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW219

Figure  
C-188  
(2 of 2)

# AGW220



- 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. DOE Unique Well Number: BHC917

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

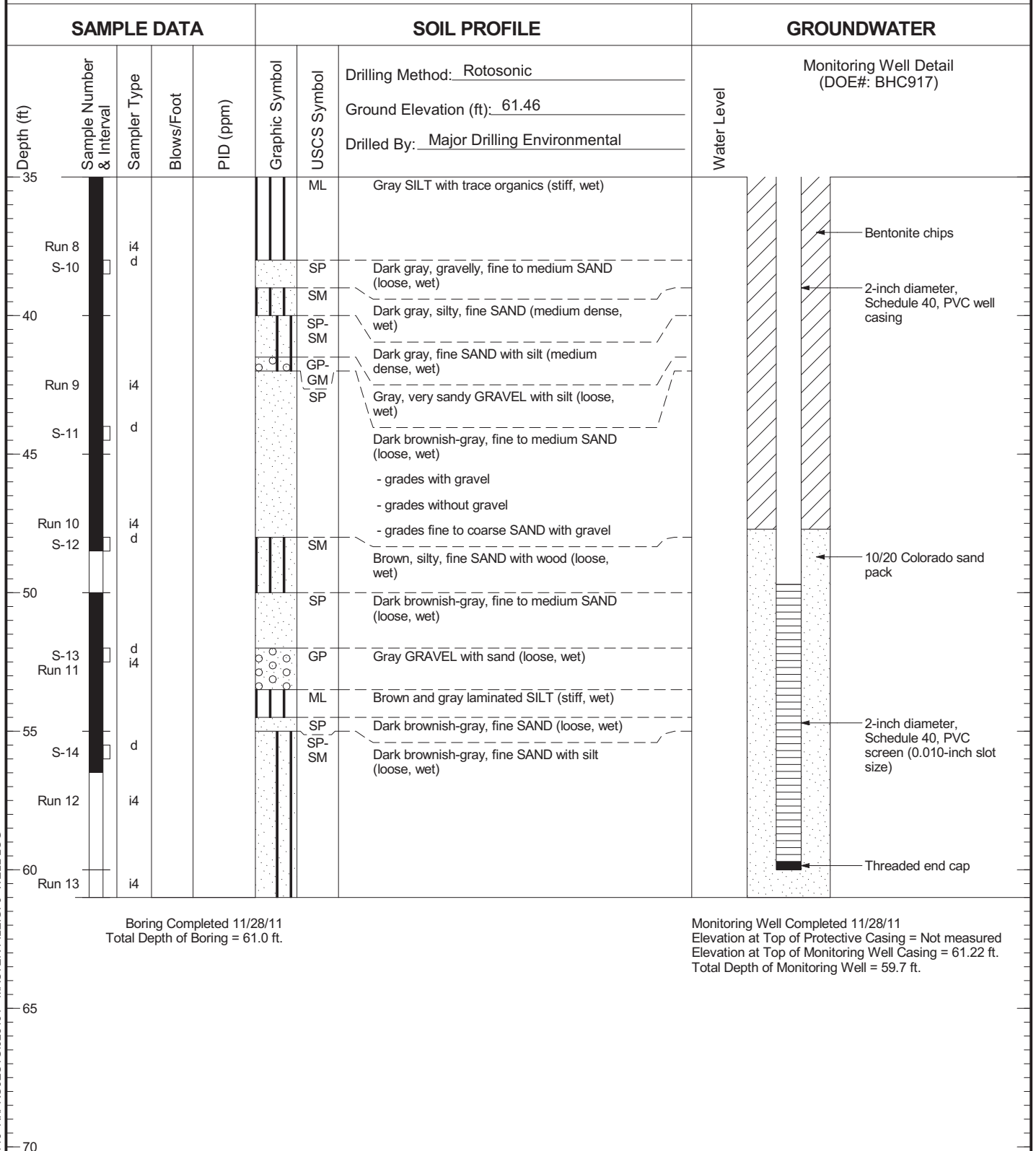


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW220

Figure  
C-189  
(1 of 2)

# AGW220



Boring Completed 11/28/11  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 11/28/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 61.22 ft.  
Total Depth of Monitoring Well = 59.7 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. DOE Unique Well Number: BHC917

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

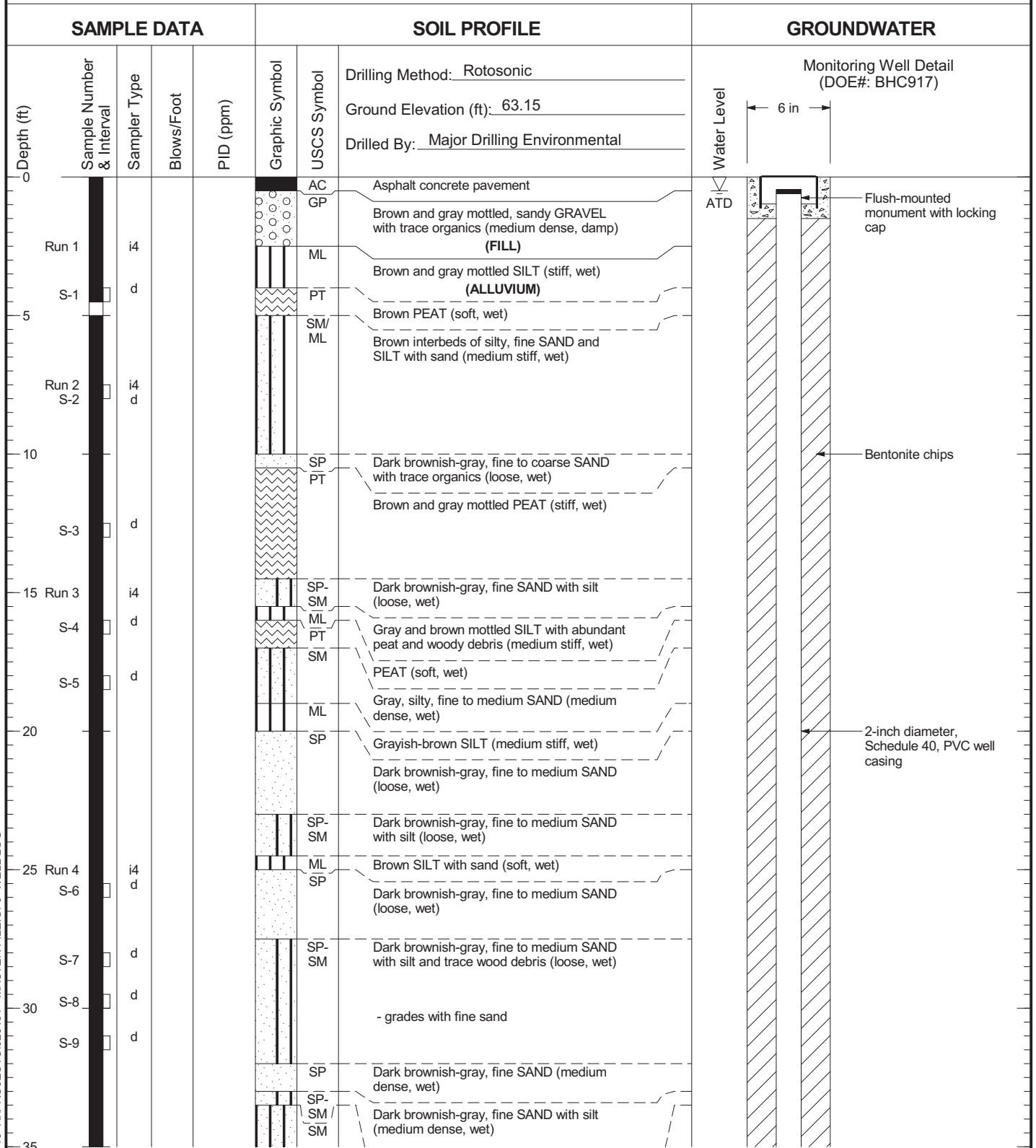


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW220

Figure  
C-189  
(2 of 2)

# AGW221



- 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. DOE Unique Well Number: BHC918

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

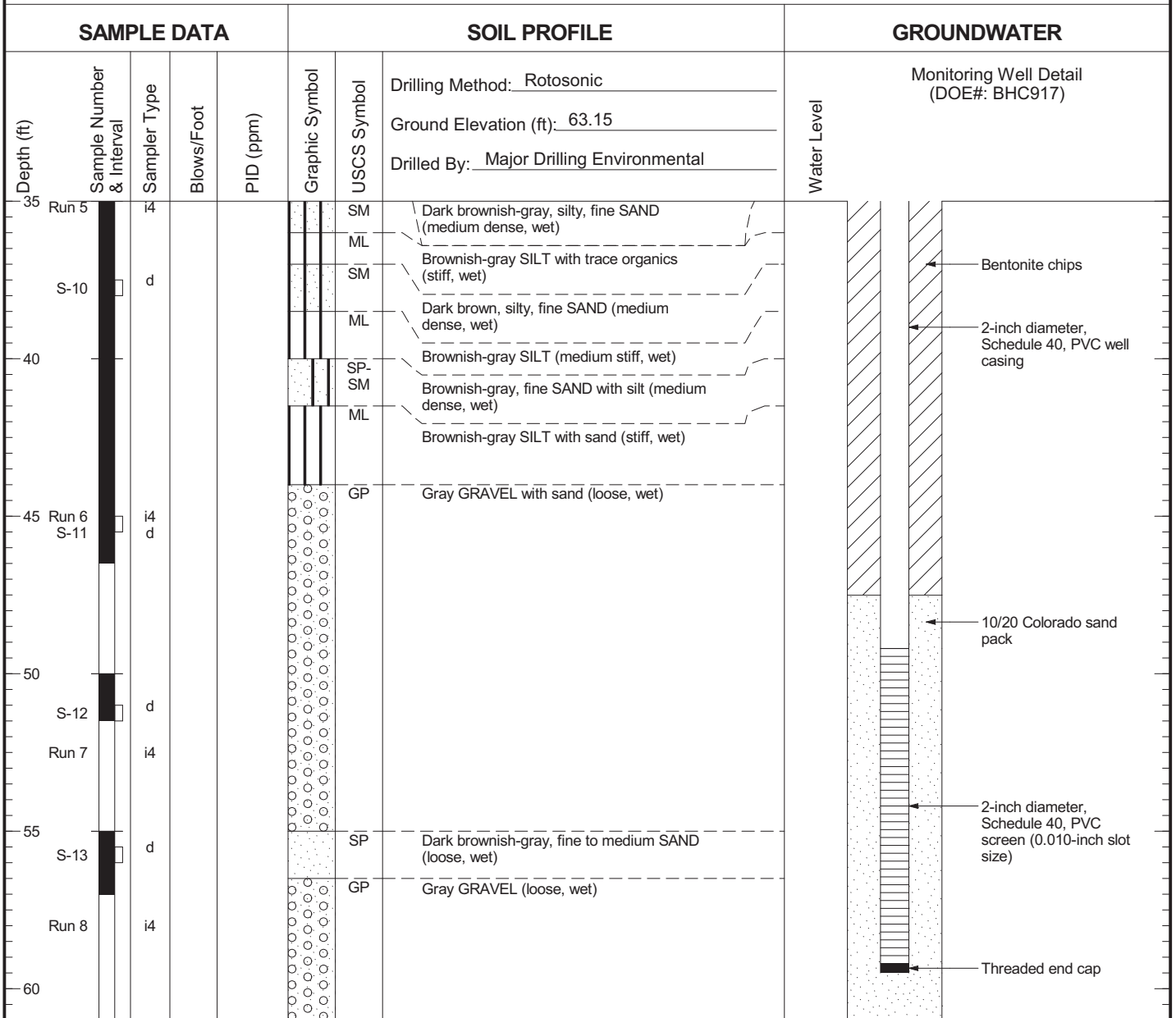


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW221

Figure  
C-190  
(1 of 2)

# AGW221



Boring Completed 11/29/11  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 11/29/11  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 62.83 ft.  
Total Depth of Monitoring Well = 59.3 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. DOE Unique Well Number: BHC918

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE\GPU WELL LOG

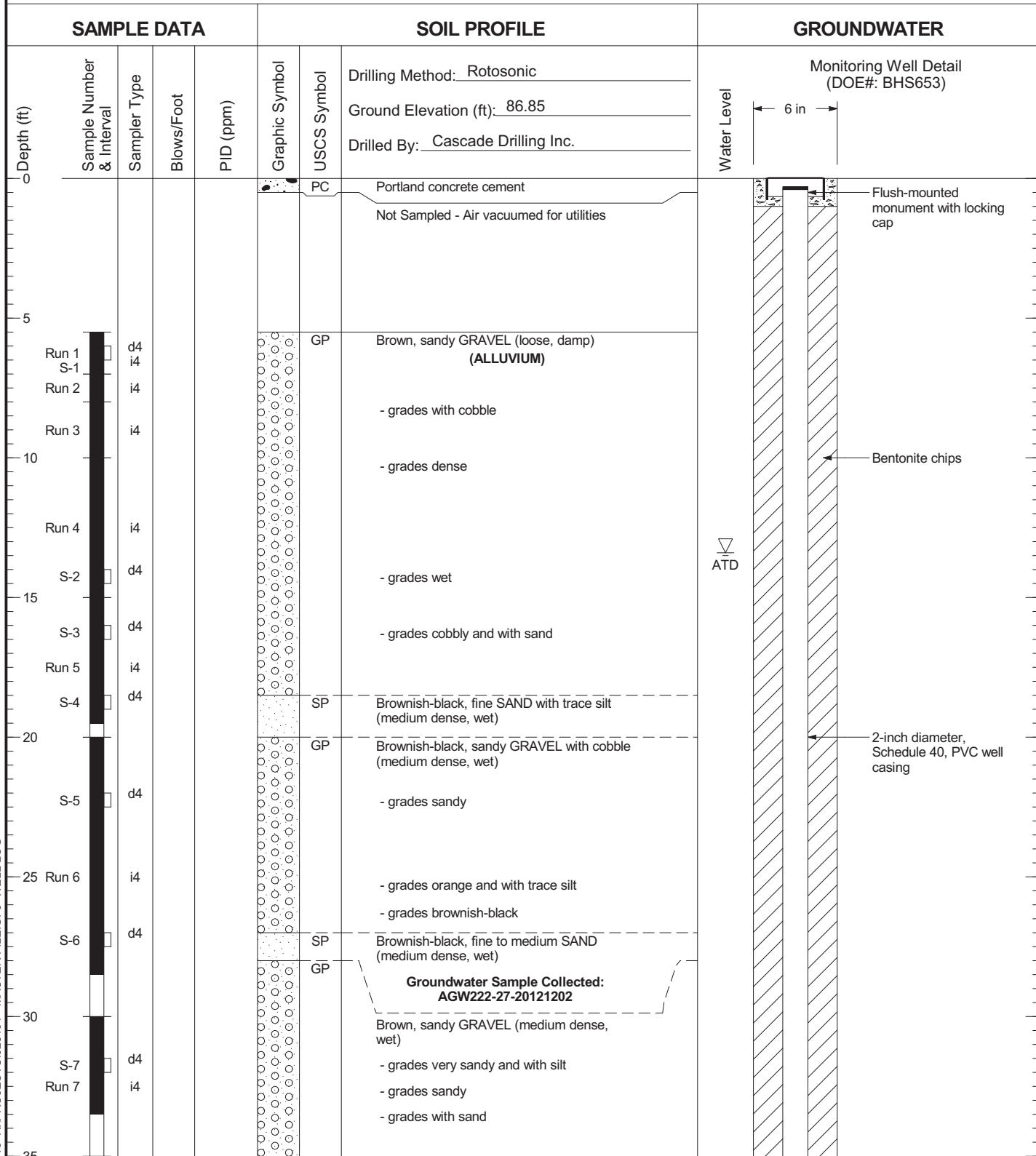


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW221

Figure  
C-190  
(2 of 2)

# AGW222



- 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. DOE Unique Well Number: BHS653

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW222

Figure  
C-191  
(1 of 2)

# AGW222

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>86.85</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: BHS653)
35					GP		- grades sandy Brown, sandy GRAVEL (medium dense, wet) - grades with sand and cobble		
Run 8		i4							Bentonite chips
S-8		d4							2-inch diameter, Schedule 40, PVC well casing
40					ML		Grayish-orange mottled SILT (hard, wet)		
					GP		Brown GRAVEL with sand (medium dense, wet)		
S-9		d4			GP-GM		Brown, sandy GRAVEL with silt (medium dense, wet)		
S-10		d4			ML		- grades very sandy		
45					SP-SM		Grayish-orange mottled SILT with sand (hard, wet)		
Run 9		i4					Brown, gravelly, fine to medium SAND with silt (medium dense, wet)		
S-11		d4					- with silt clasts		2/12 Colorado sand pack
50					GP		Brown, very sandy GRAVEL with cobble (medium dense, wet) - grades cobby and with sand		
S-12		d4			SP-SM		Grayish-orange mottled, laminated, fine SAND with silt and SILT; laminations 3 to 10 mm (medium dense, wet)		2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
55					GP		Brownish-black, very sandy GRAVEL (medium dense, wet)		
Run 10		i4					Brownish-black, fine to medium SAND with gravel (medium dense, wet)		Threaded end cap
S-13		d4					- grades with gravel - grades gravelly - grades with gravel		
60									

Boring Completed 12/02/12  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 12/02/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.39 ft.  
Total Depth of Monitoring Well = 59.4 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. DOE Unique Well Number: BHS653

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



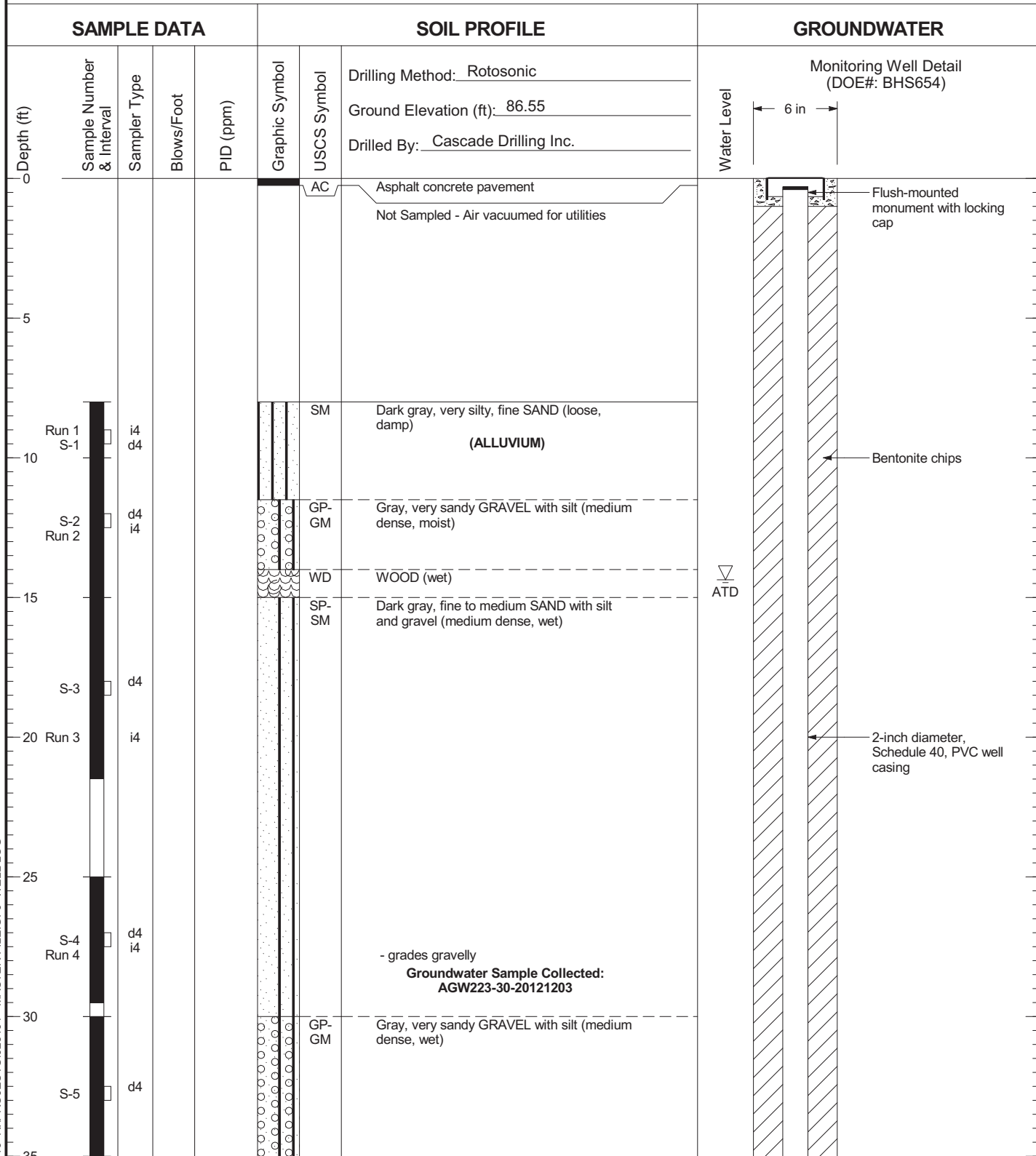
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW222

Figure  
C-191  
(2 of 2)



# AGW223



- 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. DOE Unique Well Number: BHS654

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

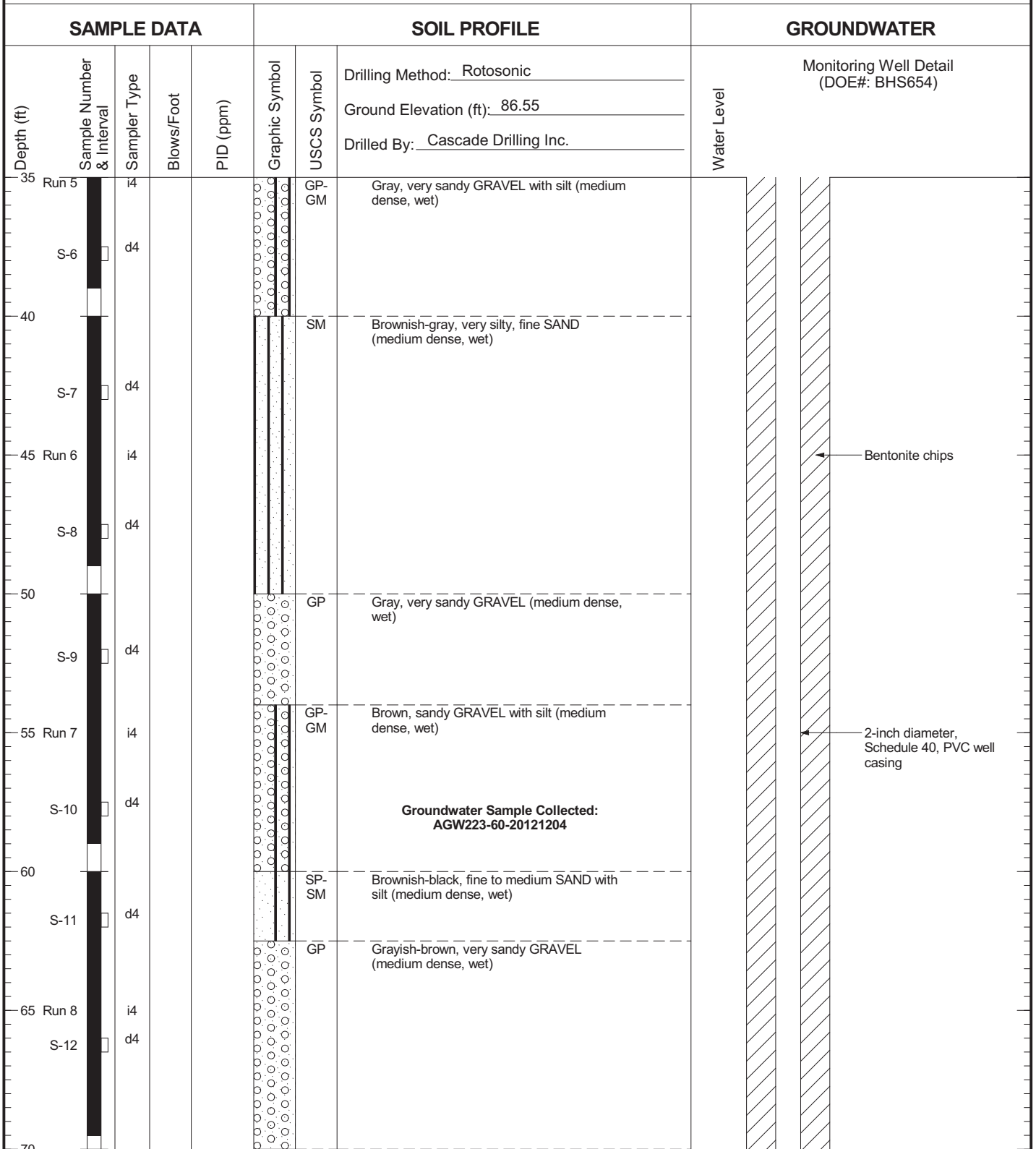


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW223

Figure  
C-192  
(1 of 4)

# AGW223



- 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. DOE Unique Well Number: BHS654

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

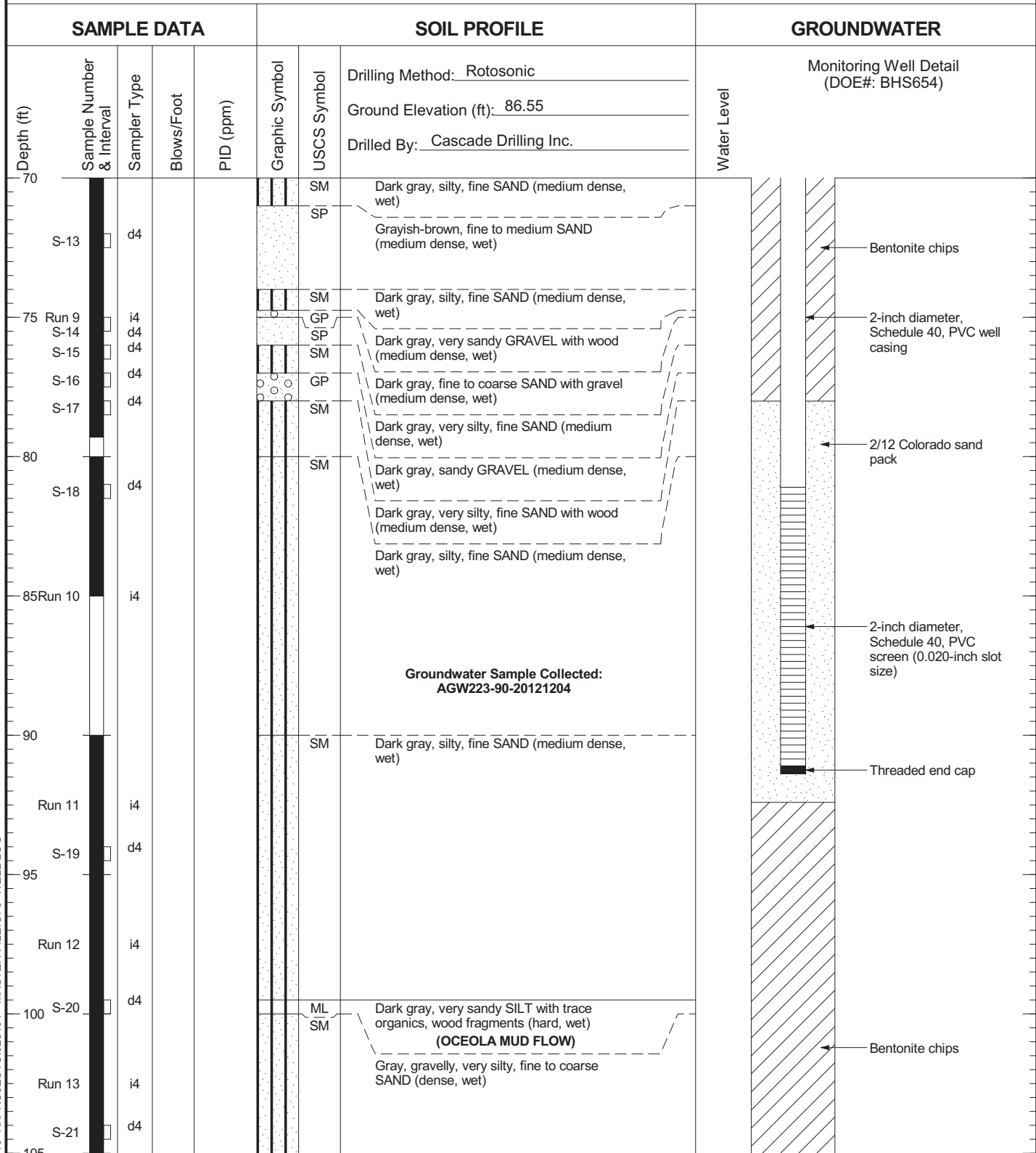


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW223

Figure  
C-192  
(2 of 4)

# AGW223



- 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. DOE Unique Well Number: BHS654

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW223

Figure  
C-192  
(3 of 4)

# AGW223

SAMPLE DATA				SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BHS654)
	Run 14	i4			SM	Gray, gravelly, very silty, fine to coarse SAND (dense, wet)	Ground Elevation (ft): <u>86.55</u>		
	S-22	d4					Drilled By: <u>Cascade Drilling Inc.</u>		

Boring Completed 12/04/12  
Total Depth of Boring = 110.0 ft.

Monitoring Well Completed 12/04/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 86.15 ft.  
Total Depth of Monitoring Well = 91.4 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. DOE Unique Well Number: BHS654

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

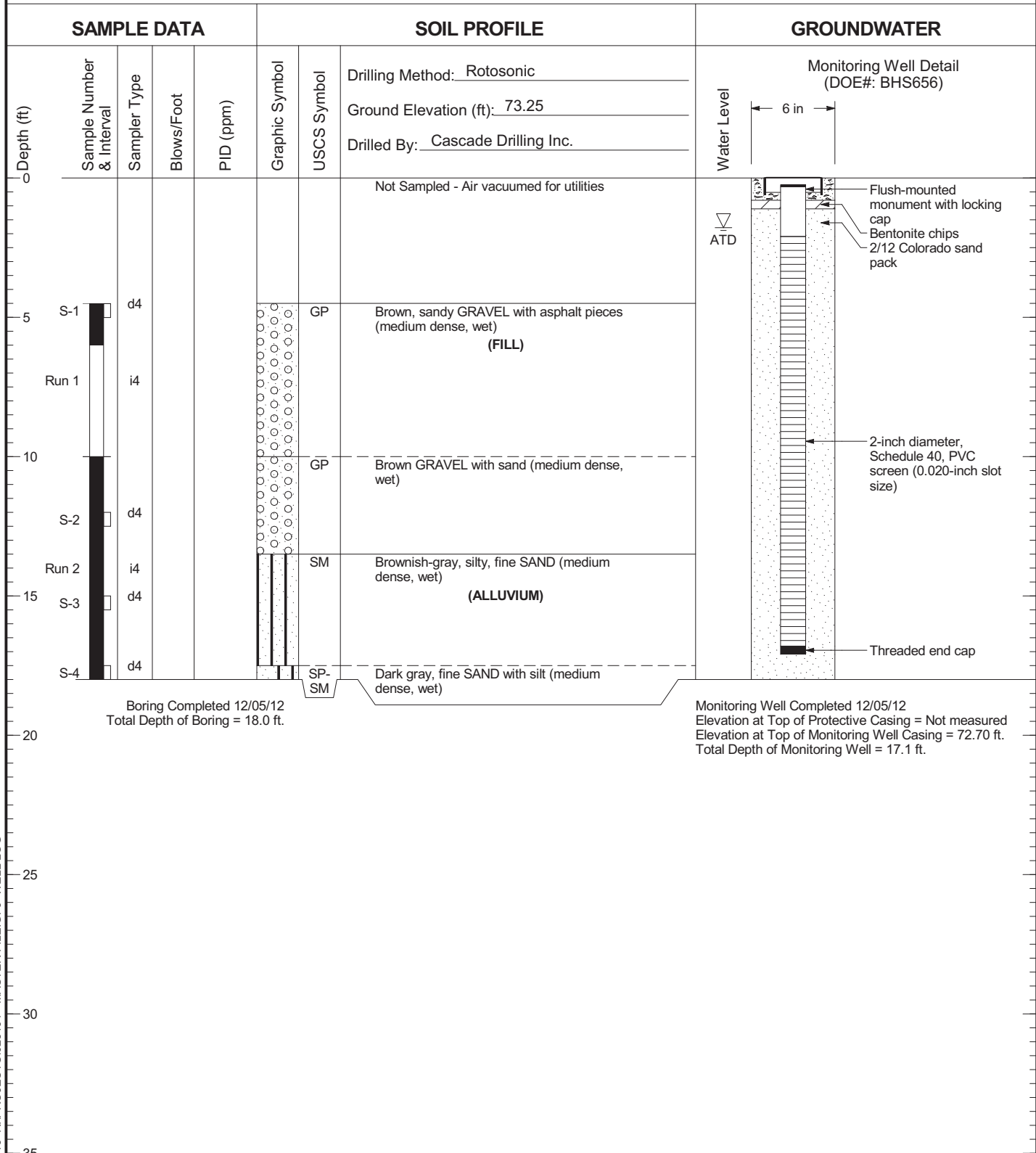


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW223

Figure  
C-192  
(4 of 4)

# AGW224



- 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. DOE Unique Well Number: BHS655

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

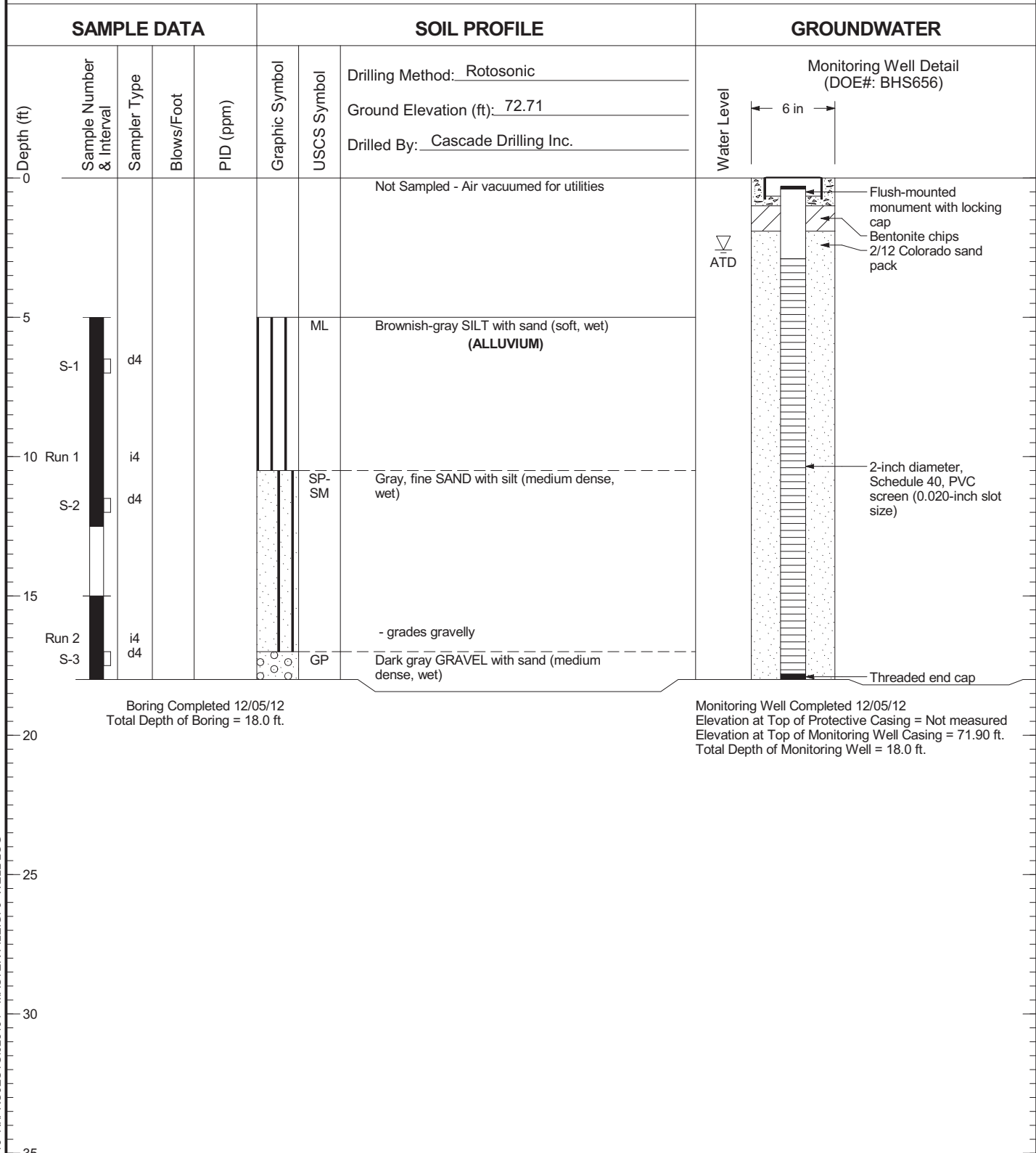


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW224

Figure  
C-193

# AGW225



Boring Completed 12/05/12  
Total Depth of Boring = 18.0 ft.

Monitoring Well Completed 12/05/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.90 ft.  
Total Depth of Monitoring Well = 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.
  4. DOE Unique Well Number: BHS656

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

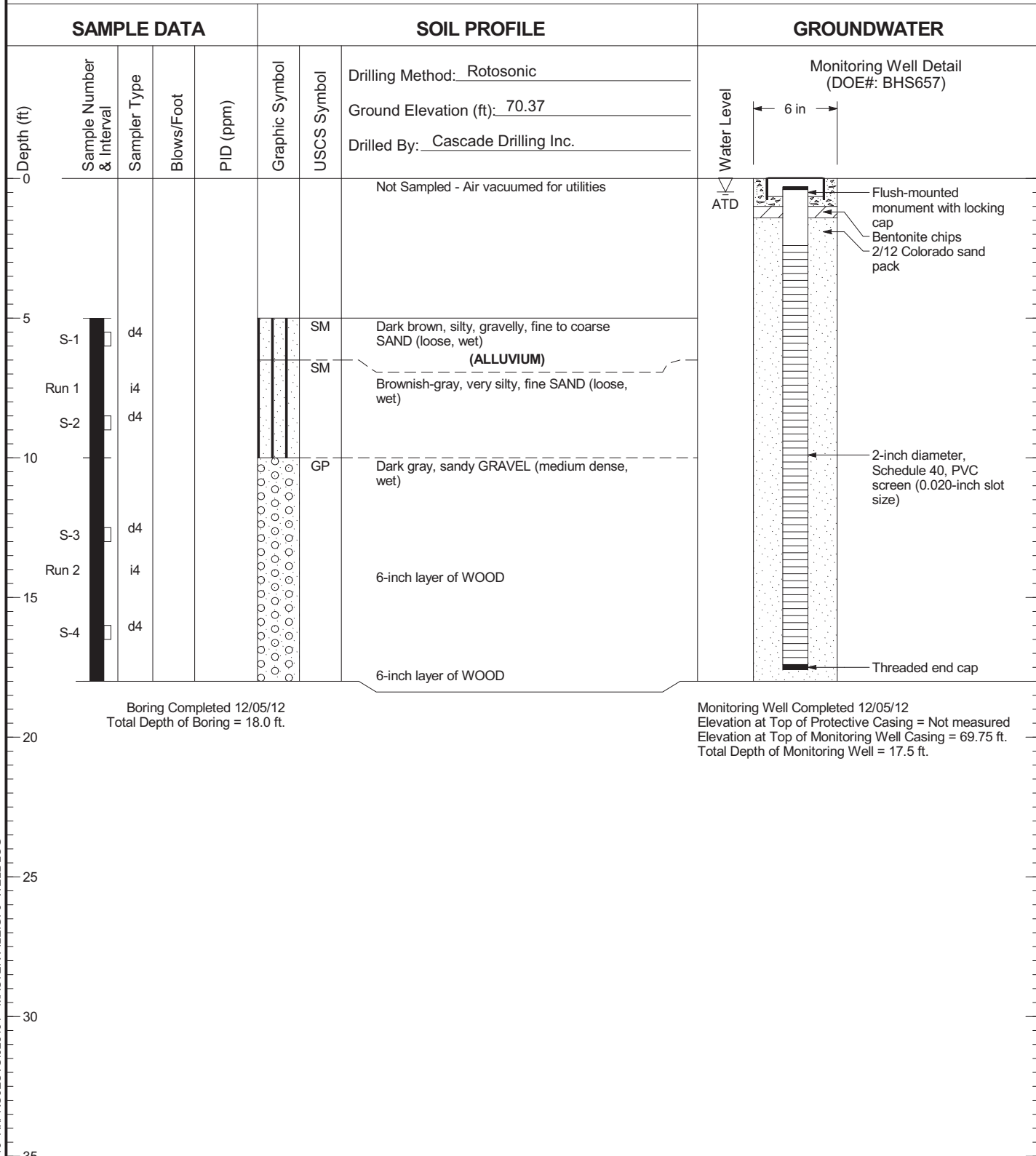


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Auburn, Washington

Log of Monitoring Well AGW225

Figure  
C-194

# AGW226



- 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. DOE Unique Well Number: BHS657

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

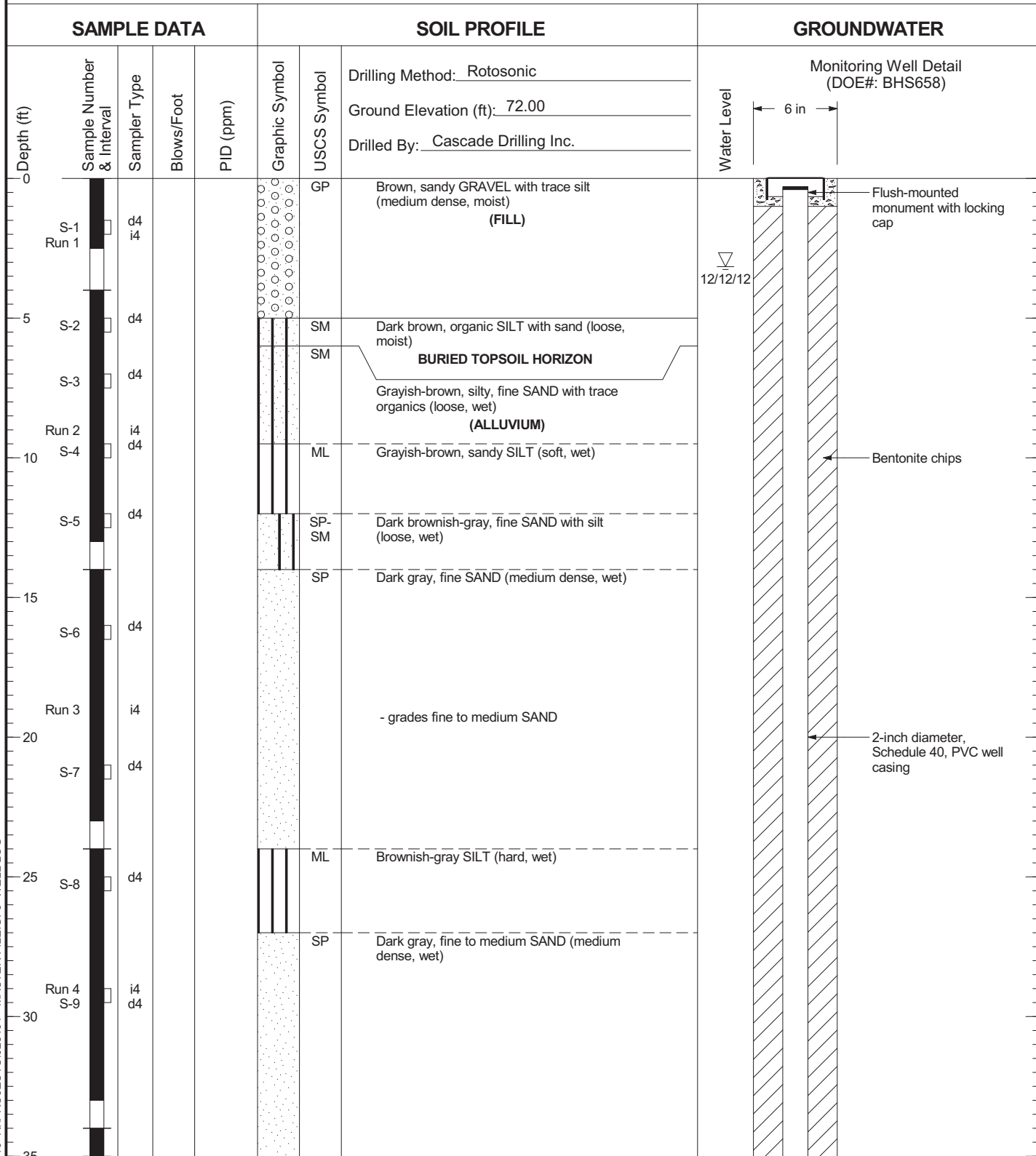


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW226

Figure  
C-195

# AGW227



- 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. DOE Unique Well Number: BHS658

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



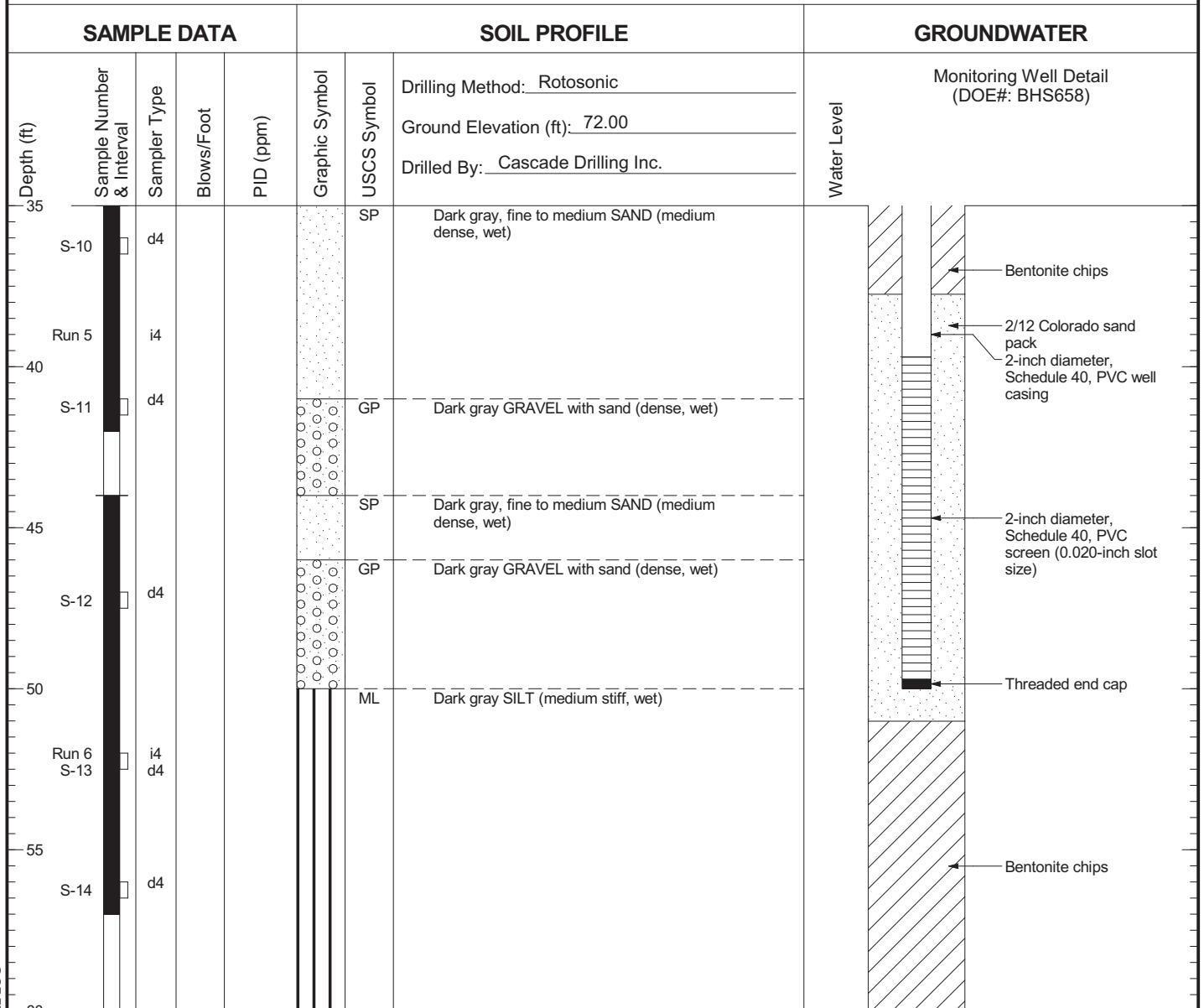
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW227

Figure  
C-196  
(1 of 2)



# AGW227



Boring Completed 12/06/12  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 12/06/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.52 ft.  
Total Depth of Monitoring Well = 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. DOE Unique Well Number: BHS658

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

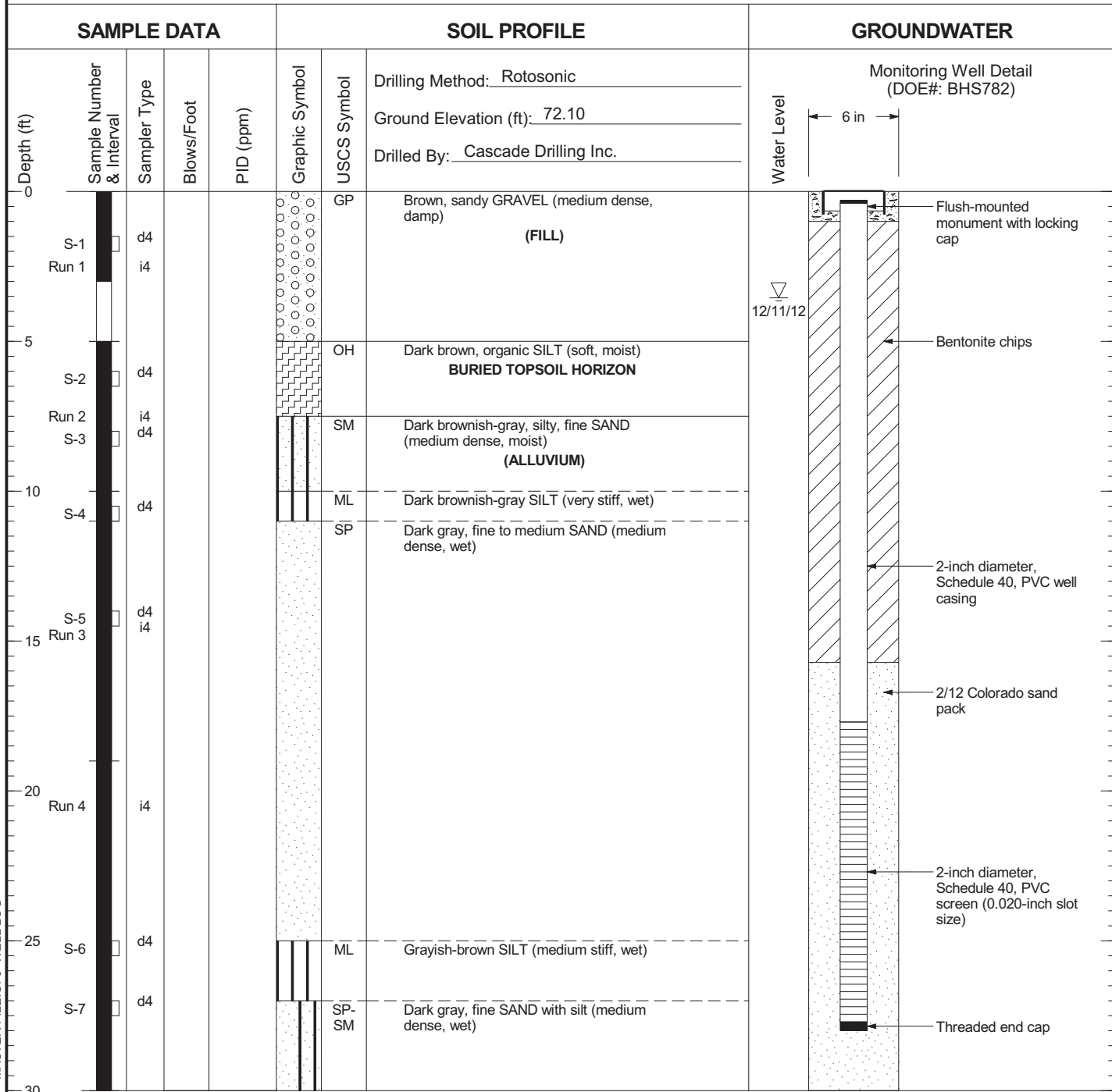


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW227

Figure  
C-196  
(2 of 2)

# AGW228



Boring Completed 12/06/12  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 12/06/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.79 ft.  
Total Depth of Monitoring Well = 28.0 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. DOE Unique Well Number: BHS782

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

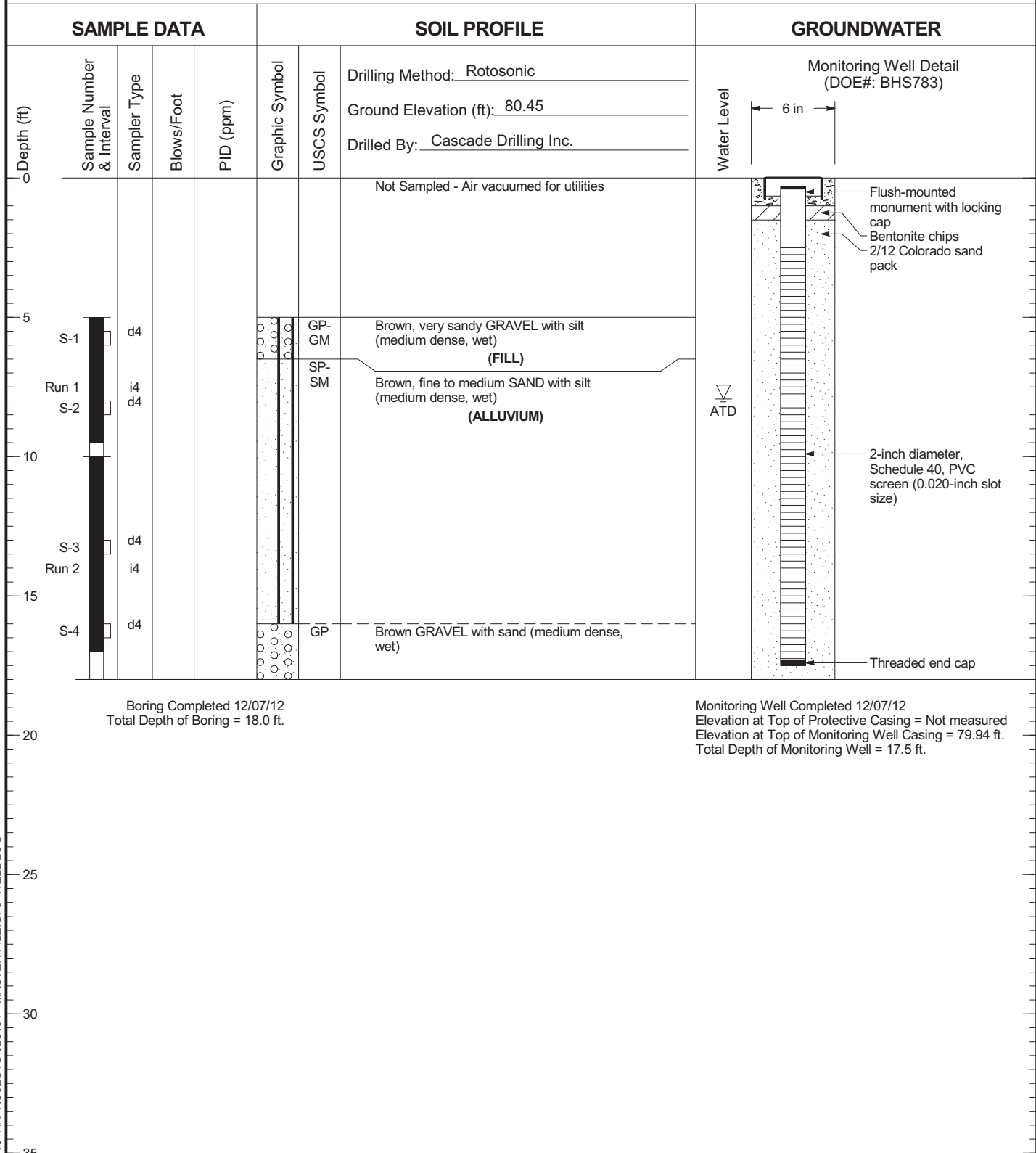


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Auburn, Washington

Log of Monitoring Well AGW228

Figure  
C-197

# AGW229



Boring Completed 12/07/12  
Total Depth of Boring = 18.0 ft.

Monitoring Well Completed 12/07/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 79.94 ft.  
Total Depth of Monitoring Well = 17.5 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.
  4. DOE Unique Well Number: BHS783

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

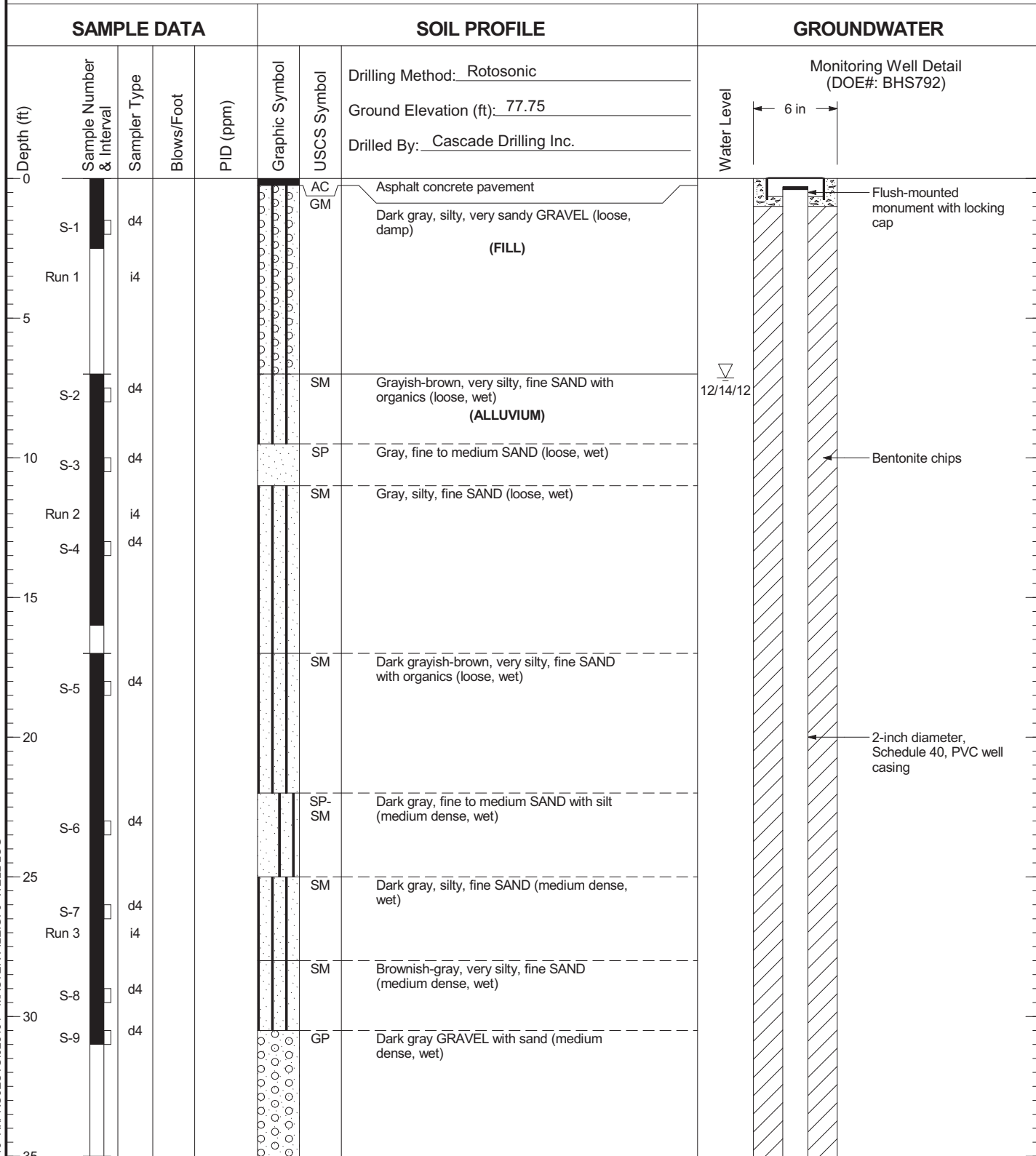


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Auburn, Washington

Log of Monitoring Well AGW229

Figure  
C-198

# AGW230



- 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. DOE Unique Well Number: BHS792

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

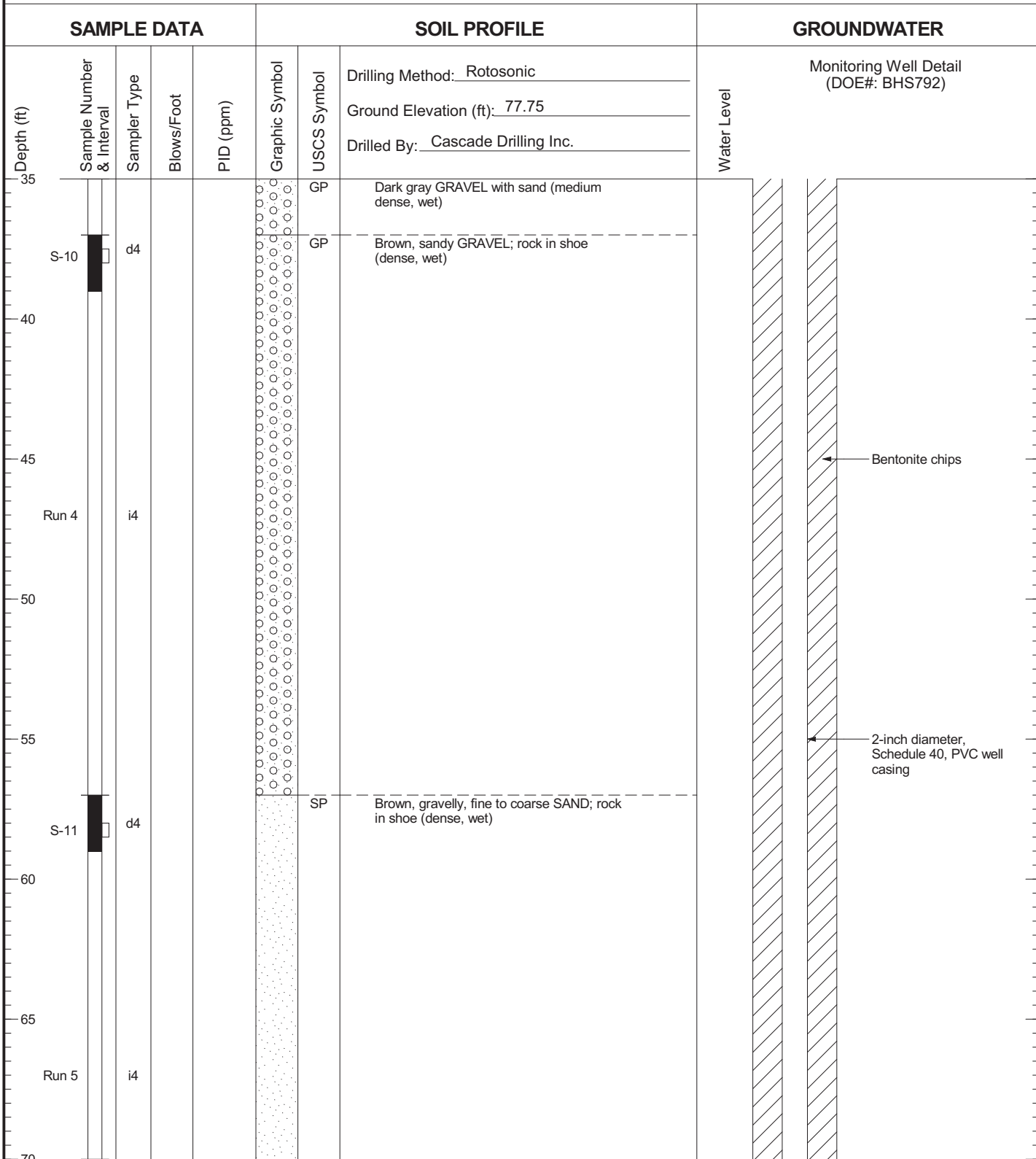


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW230

Figure  
C-199  
(1 of 3)

# AGW230



- 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. DOE Unique Well Number: BHS792

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

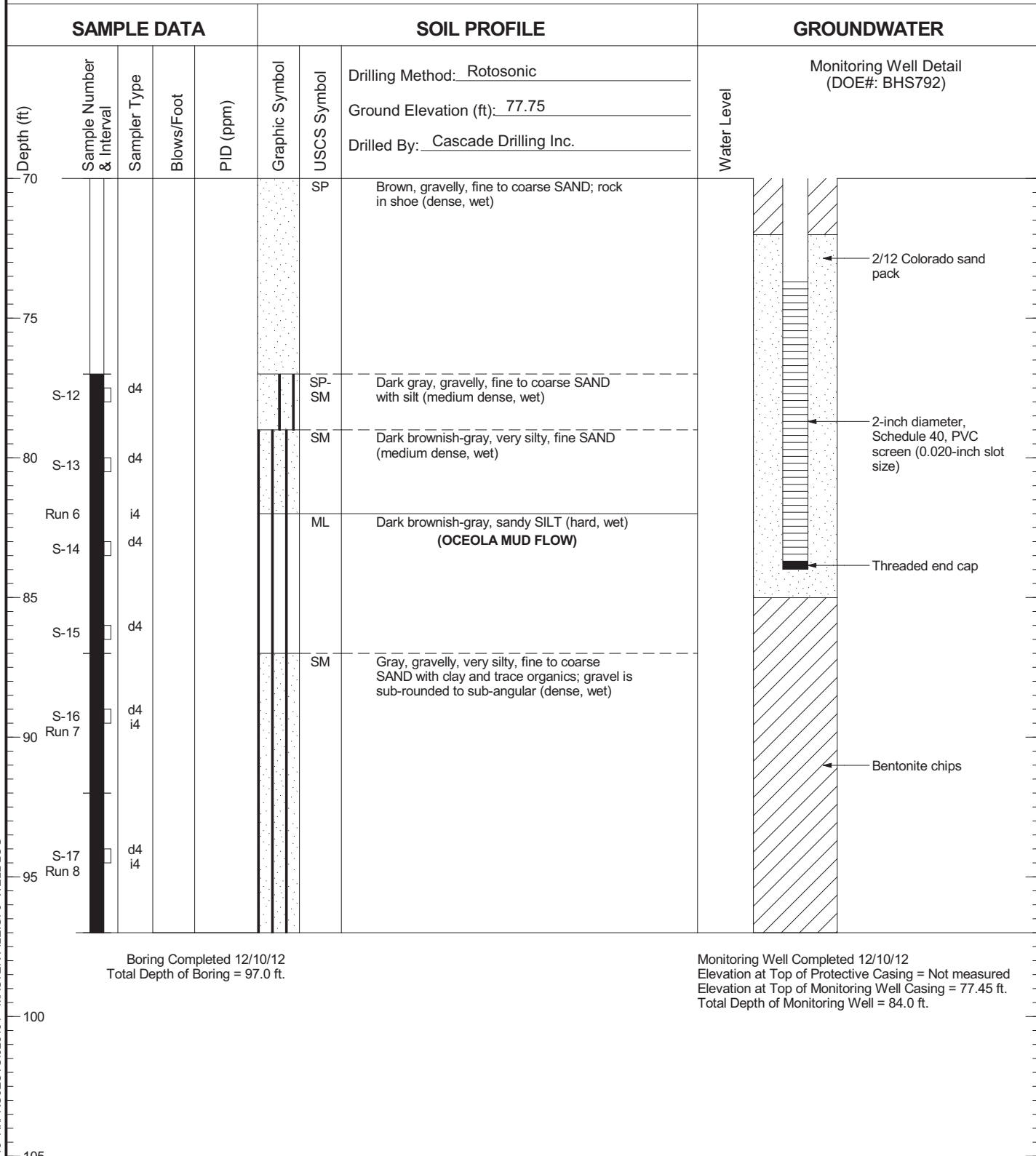


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Log of Monitoring Well AGW230

Figure  
C-199  
(2 of 3)

# AGW230



Boring Completed 12/10/12  
Total Depth of Boring = 97.0 ft.

Monitoring Well Completed 12/10/12  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.45 ft.  
Total Depth of Monitoring Well = 84.0 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. DOE Unique Well Number: BHS792

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

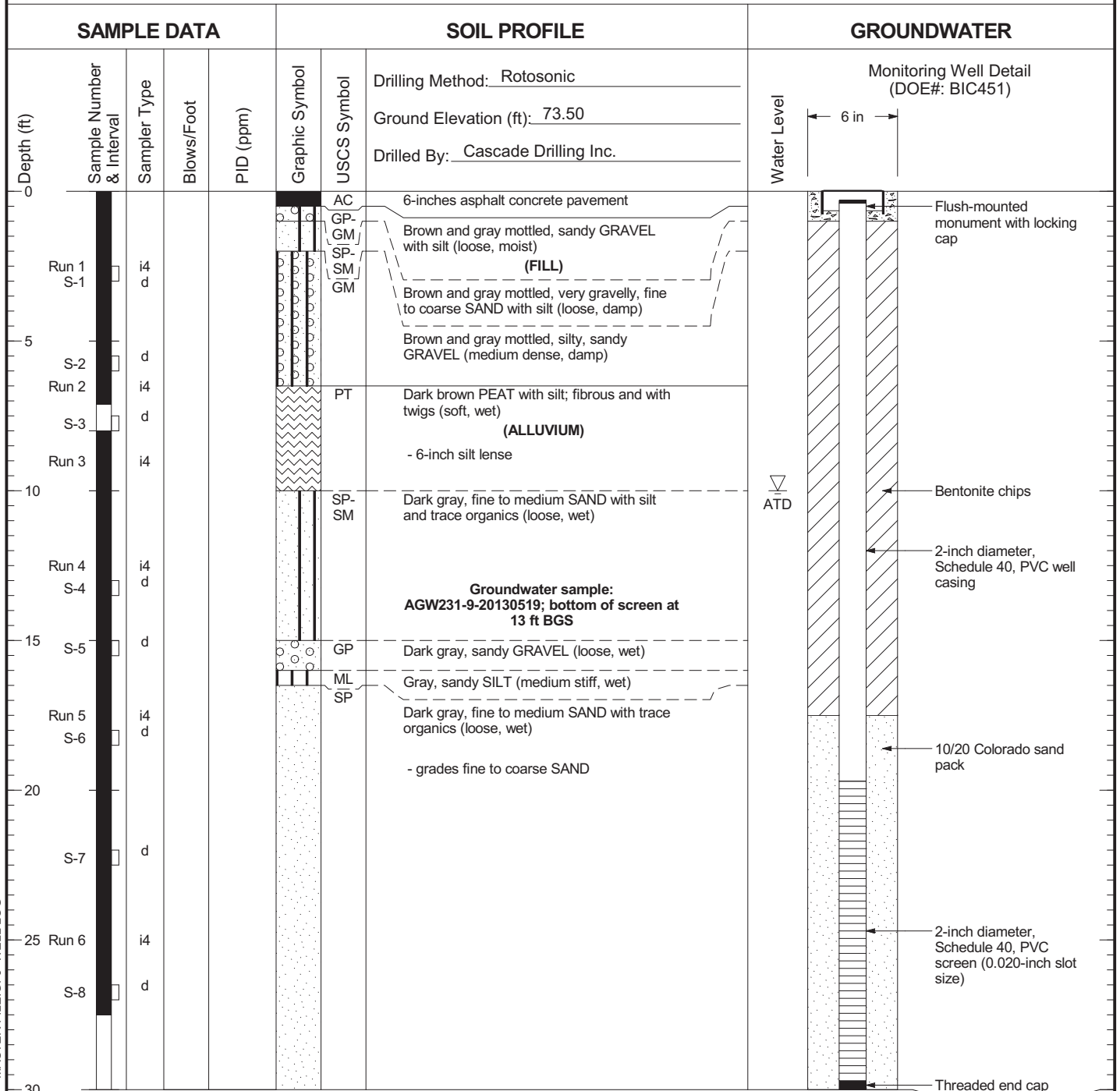


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Auburn, Washington

Log of Monitoring Well AGW230

Figure  
C-199  
(3 of 3)

# AGW231



Boring Completed 05/19/13  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 05/19/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 73.10 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BIC451

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

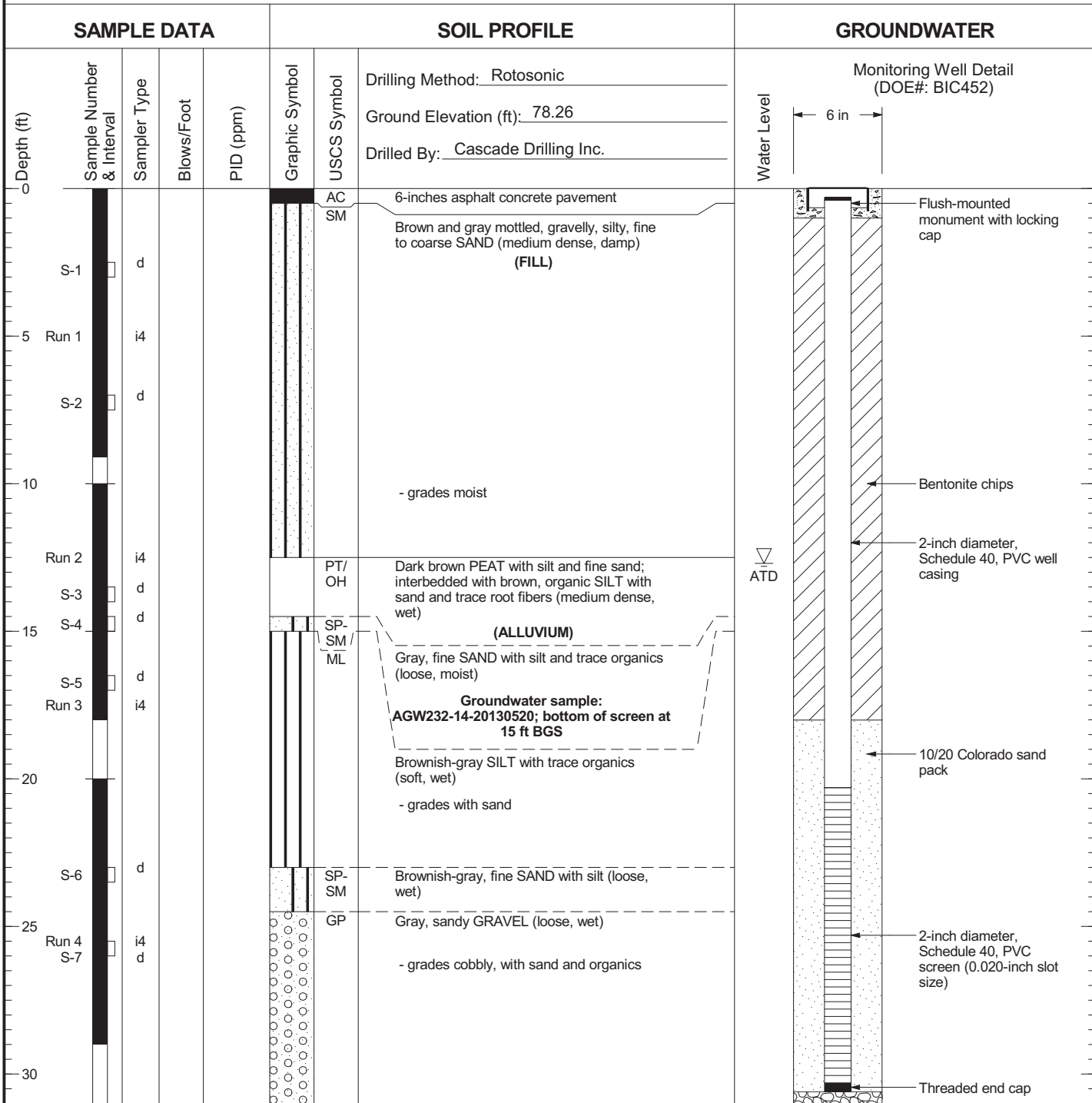


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Auburn, Washington

Log of Monitoring Well AGW231

Figure  
C-200

# AGW232



Boring Completed 05/20/13  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 05/20/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.96 ft.  
Total Depth of Monitoring Well = 30.6 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. DOE Unique Well Number: BIC452

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



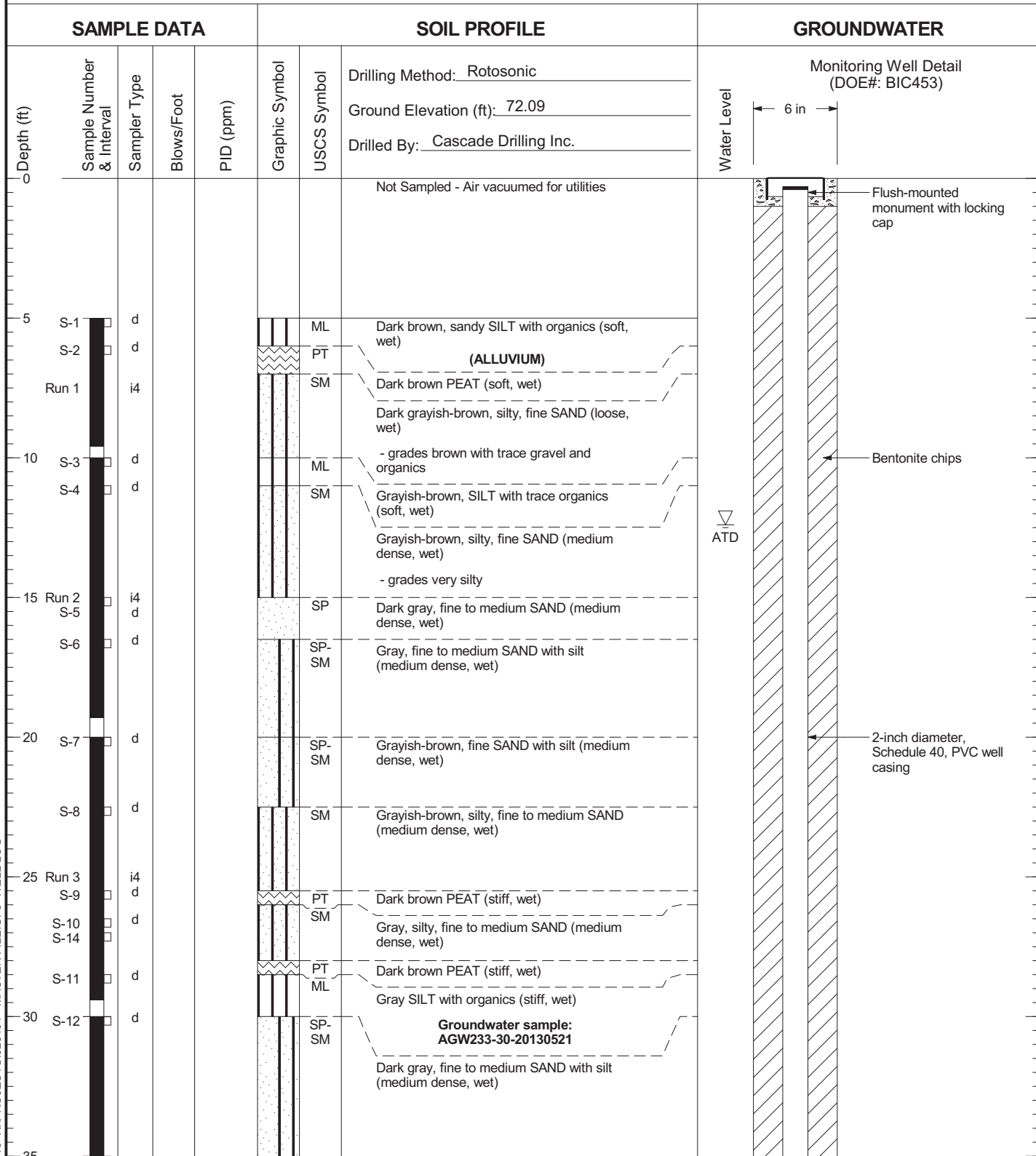
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW232

Figure  
C-201



# AGW233



- 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. DOE Unique Well Number: BIC453

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW233

Figure  
C-202  
(1 of 3)

# AGW233

SAMPLE DATA		SOIL PROFILE				GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>
							Ground Elevation (ft): <u>72.09</u>
						Drilled By: <u>Cascade Drilling Inc.</u>	Monitoring Well Detail (DOE#: BIC453)
						Water Level	
35	S-13	d			SP-SM	SM	Dark gray, fine to medium SAND with silt (medium dense, wet)
		d			SM		Dark gray, silty, fine SAND with trace wood (medium dense, wet)
40	Run 4	i4					- grades brown and iron oxide mottled
	S-15	d			GP		Brown GRAVEL with sand and trace cobble (dense, wet)
	S-16	d					- grades with cobble and very dense
45							Bentonite chips
50	S-17	d			SP		Brown, fine to coarse SAND (medium dense, wet)
	S-18	d			GP		Brown GRAVEL with sand and trace cobble (dense, wet)
55							2-inch diameter, Schedule 40, PVC well casing
	S-19	d			SM		Dark gray, silty, fine SAND (medium dense, wet)
60	Run 5	i4					
	S-20	d			ML		Dark gray, sandy SILT (medium stiff, wet)
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. DOE Unique Well Number: BIC453

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

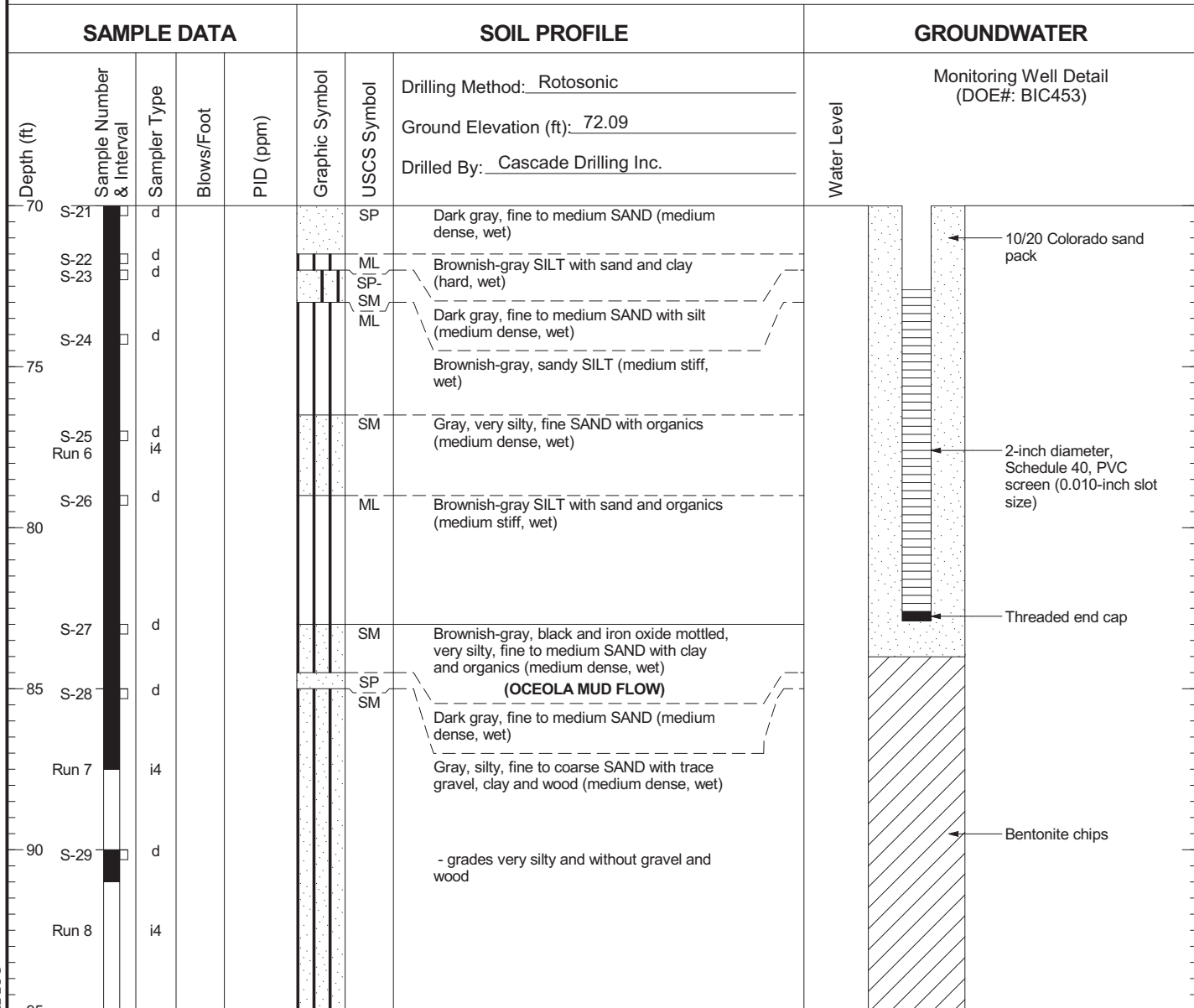


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Auburn, Washington

Log of Monitoring Well AGW233

Figure  
C-202  
(2 of 3)

# AGW233



Boring Completed 05/21/13  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 05/21/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.56 ft.  
Total Depth of Monitoring Well = 82.9 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. DOE Unique Well Number: BIC453

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

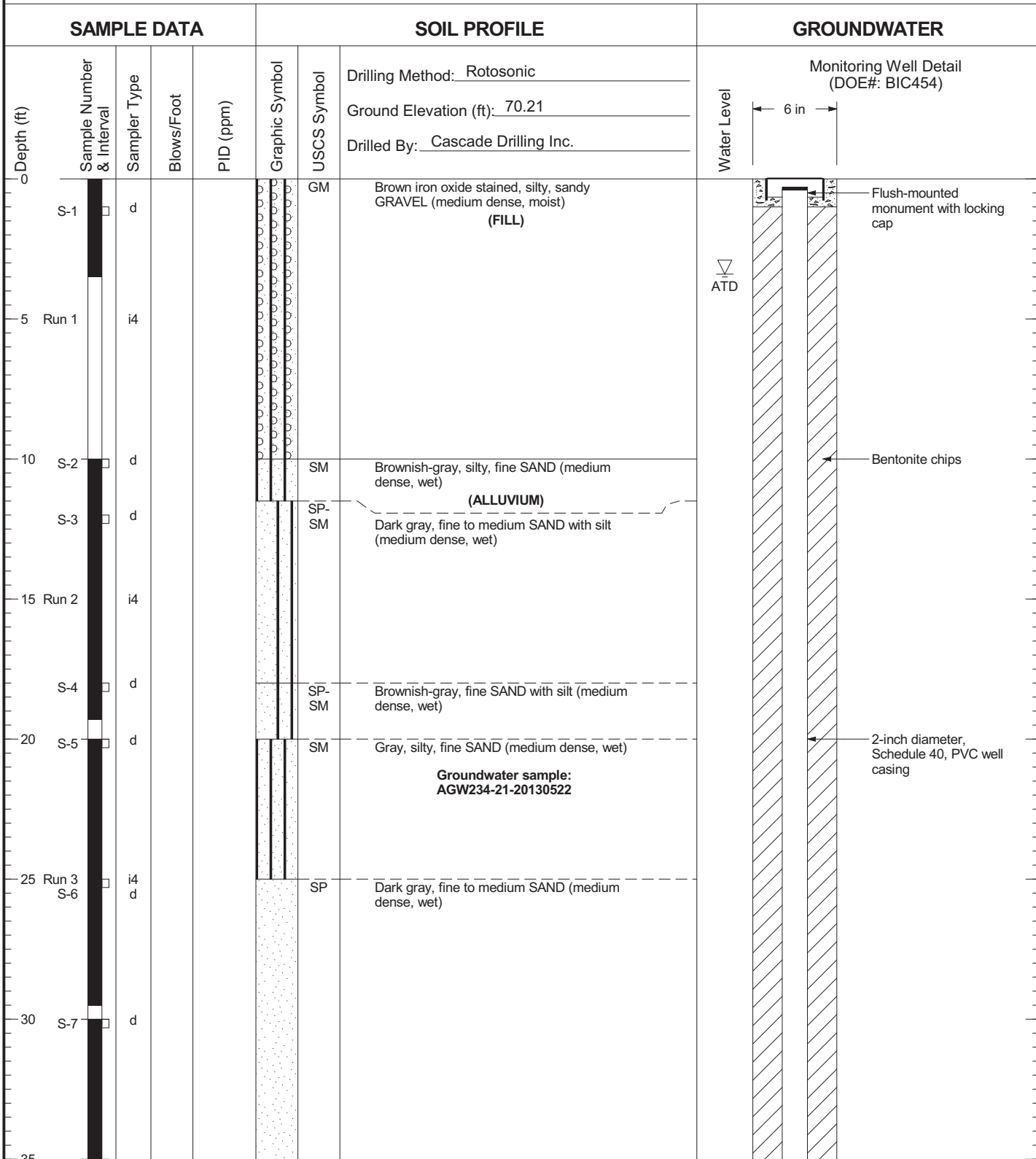


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW233

Figure  
C-202  
(3 of 3)

# AGW234



- 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. DOE Unique Well Number: BIC454

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

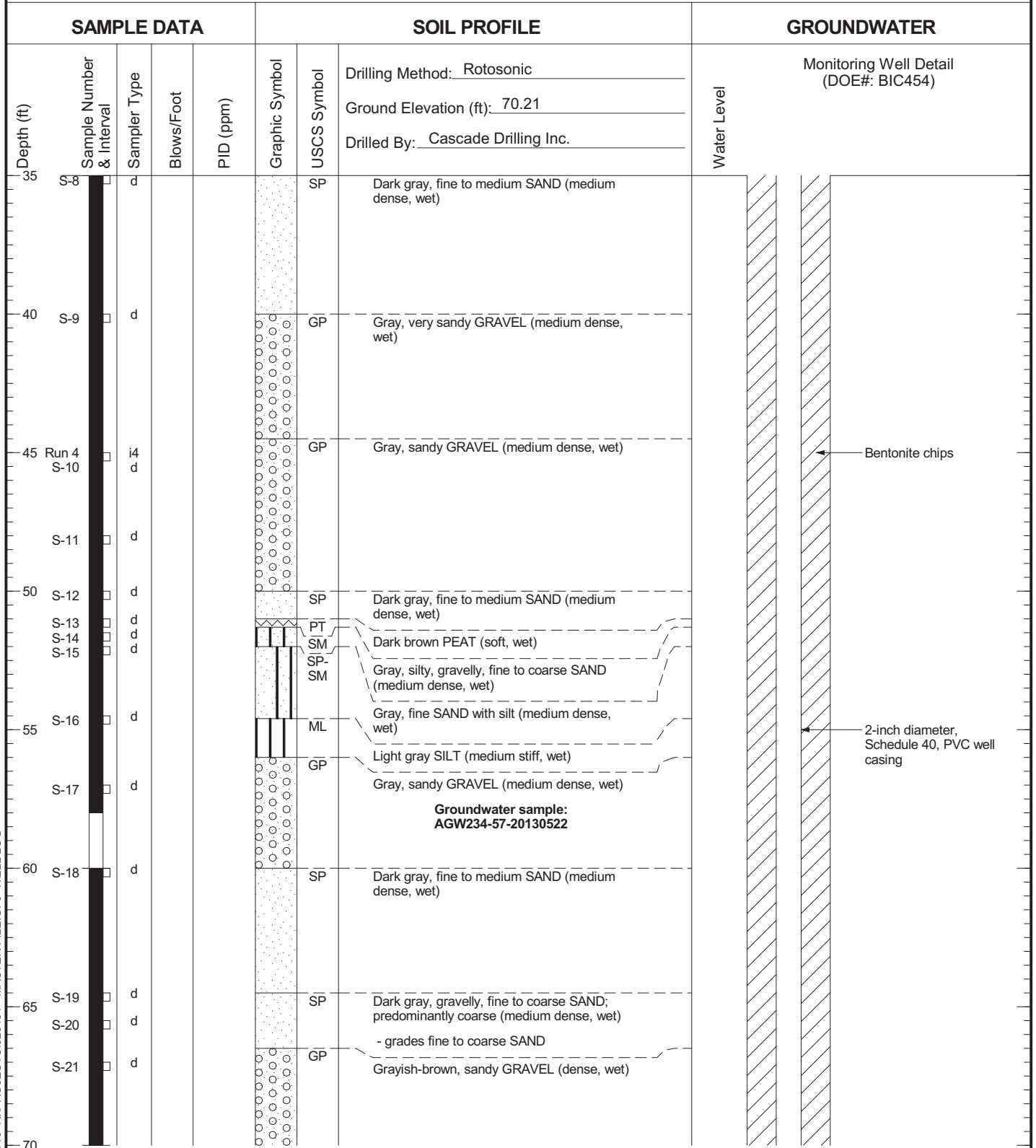


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW234

Figure  
C-203  
(1 of 3)

# AGW234



- 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. DOE Unique Well Number: BIC454

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW234

Figure  
C-203  
(2 of 3)

# AGW234

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BIC454)
							Ground Elevation (ft): <u>70.21</u>		
70	S-22	d			[Symbol]	GP	Grayish-brown, sandy GRAVEL (dense, wet)		
75	Run 5	i4			[Symbol]				10/20 Colorado sand pack
80	S-23	d			[Symbol]	SP GP	Dark gray, gravelly, fine to coarse SAND (dense, wet)		2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
85	S-24	d			[Symbol]		Brown, sandy GRAVEL (dense, wet)		Threaded end cap
90	S-25	d			[Symbol]	SM	Gray, silty, very gravelly, fine to coarse SAND with clay and trace wood; gravels are subangular to angular (medium dense, wet) <b>(OCEOLA MUD FLOW)</b>		Bentonite chips
95	Run 6	i4			[Symbol]				
100	S-26	d			[Symbol]				
105	Run 7	i4			[Symbol]				

Boring Completed 05/22/13  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 05/22/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 69.62 ft.  
Total Depth of Monitoring Well = 83.8 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. DOE Unique Well Number: BIC454

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

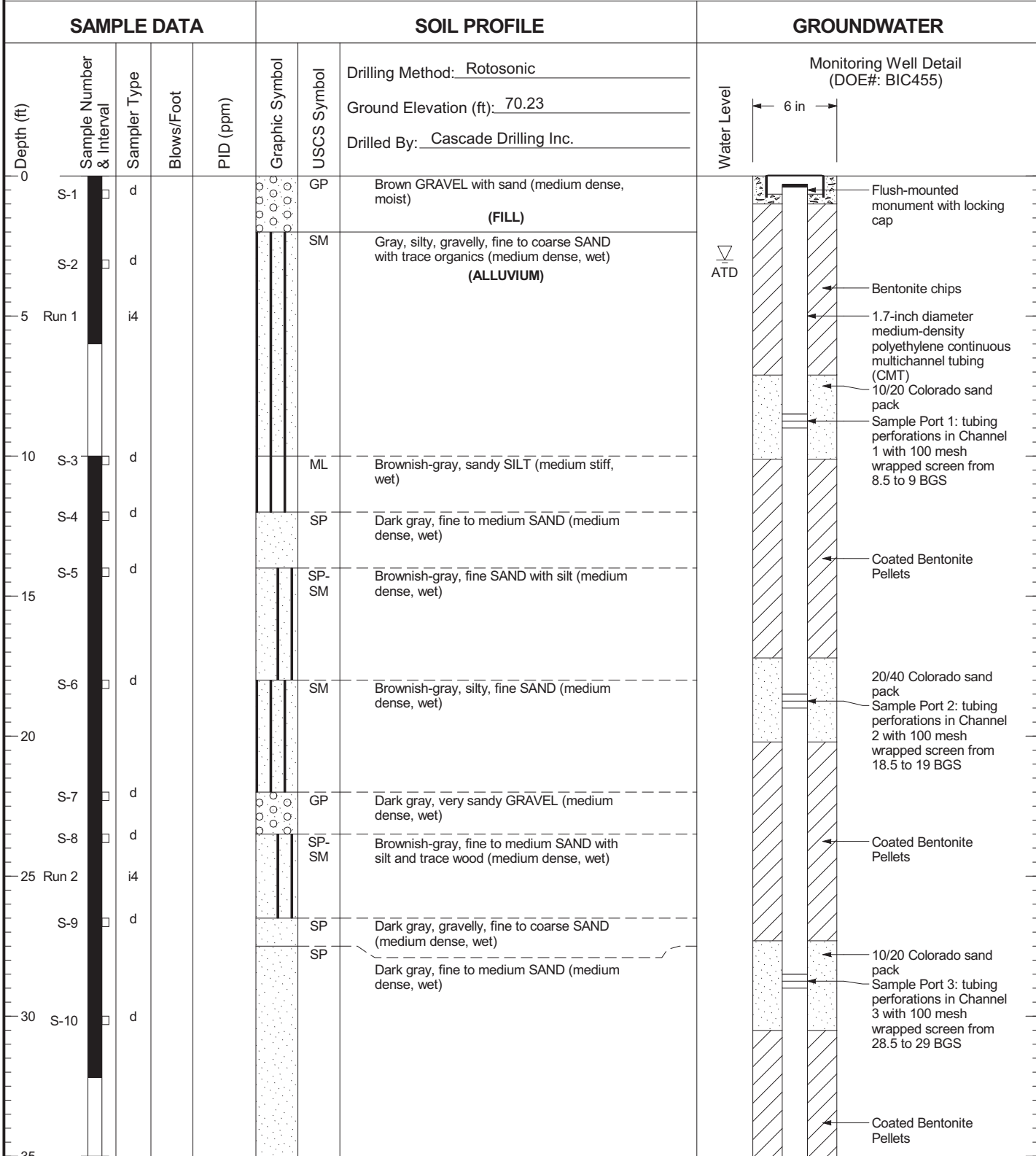


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW234

Figure  
C-203  
(3 of 3)

# AGW235



- 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. DOE Unique Well Number: BIC455

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

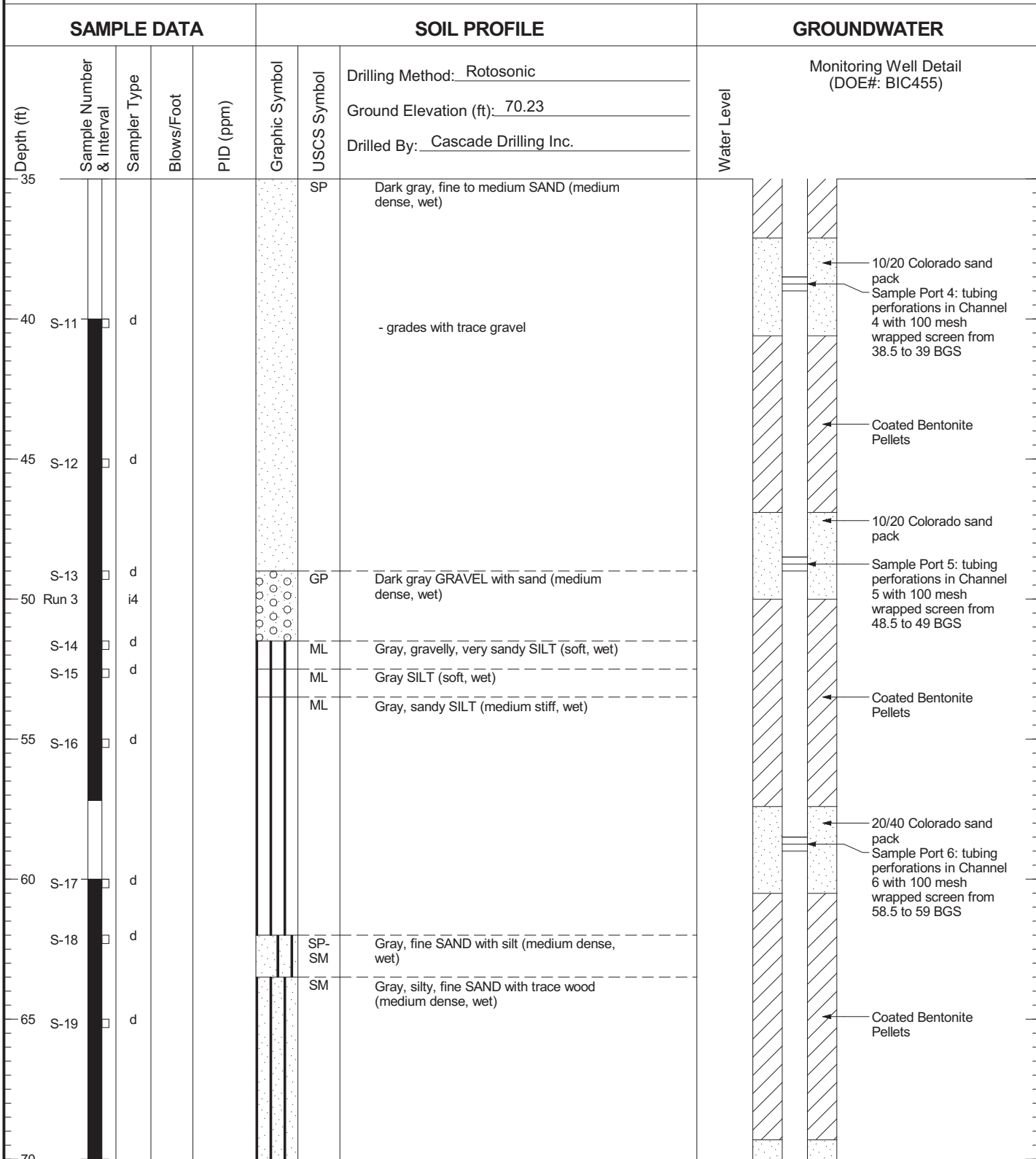


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW235

Figure  
C-204  
(1 of 3)

# AGW235



- 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. DOE Unique Well Number: BIC455

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



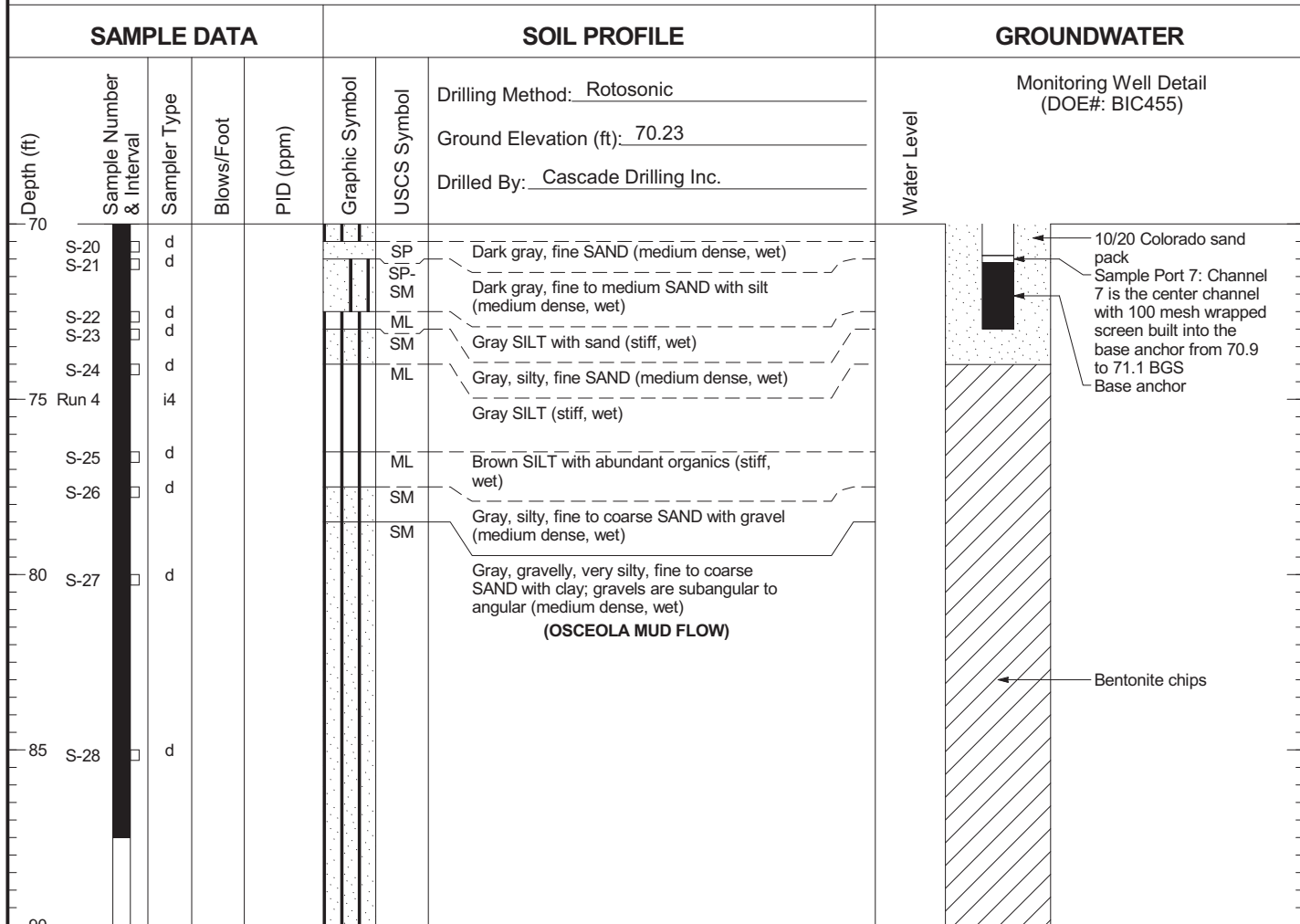
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW235

Figure  
C-204  
(2 of 3)



# AGW235



Boring Completed 05/23/13  
Total Depth of Boring = 90.0 ft.

Monitoring Well Completed 05/24/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 69.94 ft.  
Total Depth of Monitoring Well = 73.0 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. DOE Unique Well Number: BIC455

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

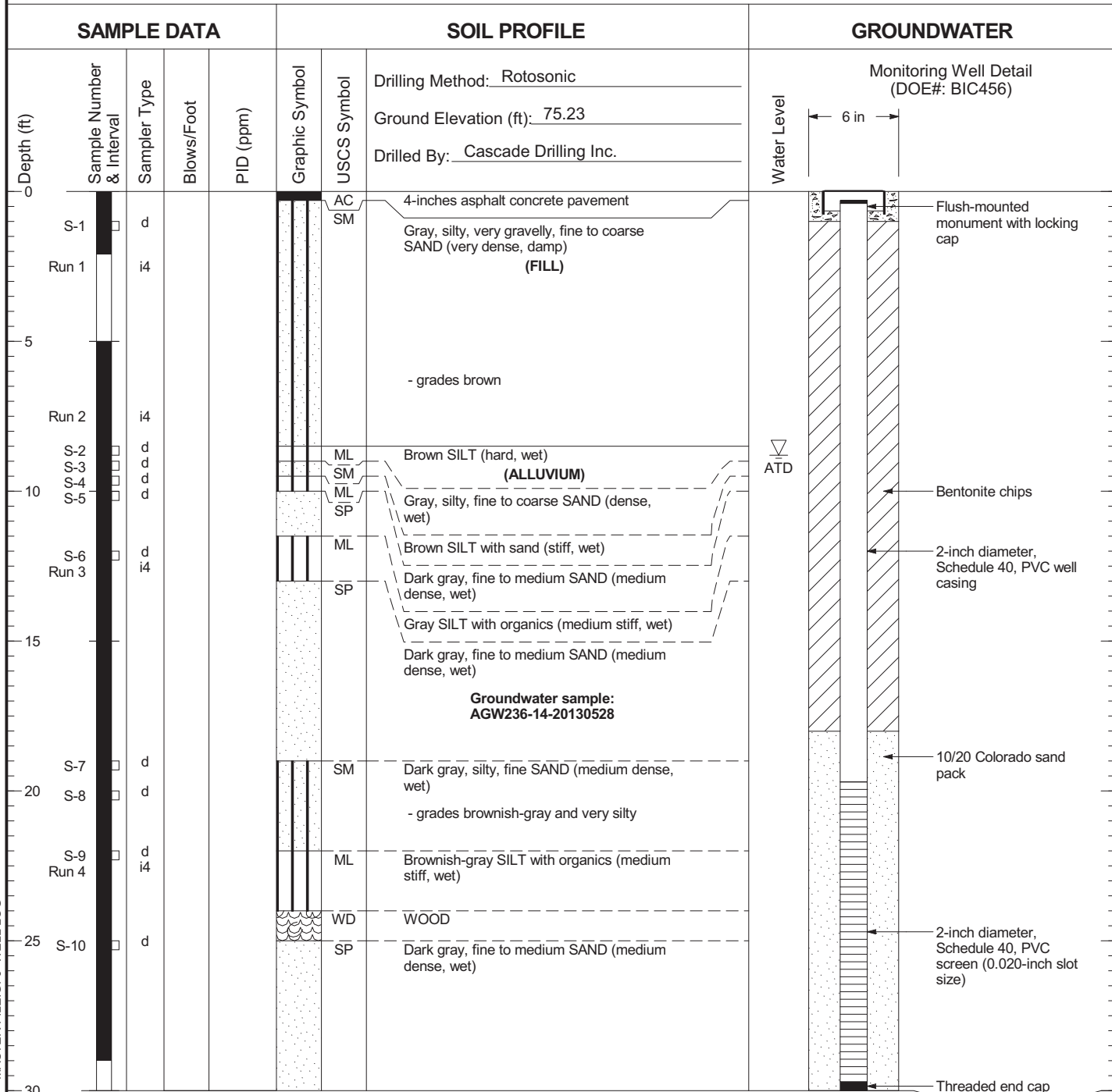


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW235

Figure  
C-204  
(3 of 3)

# AGW236



025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

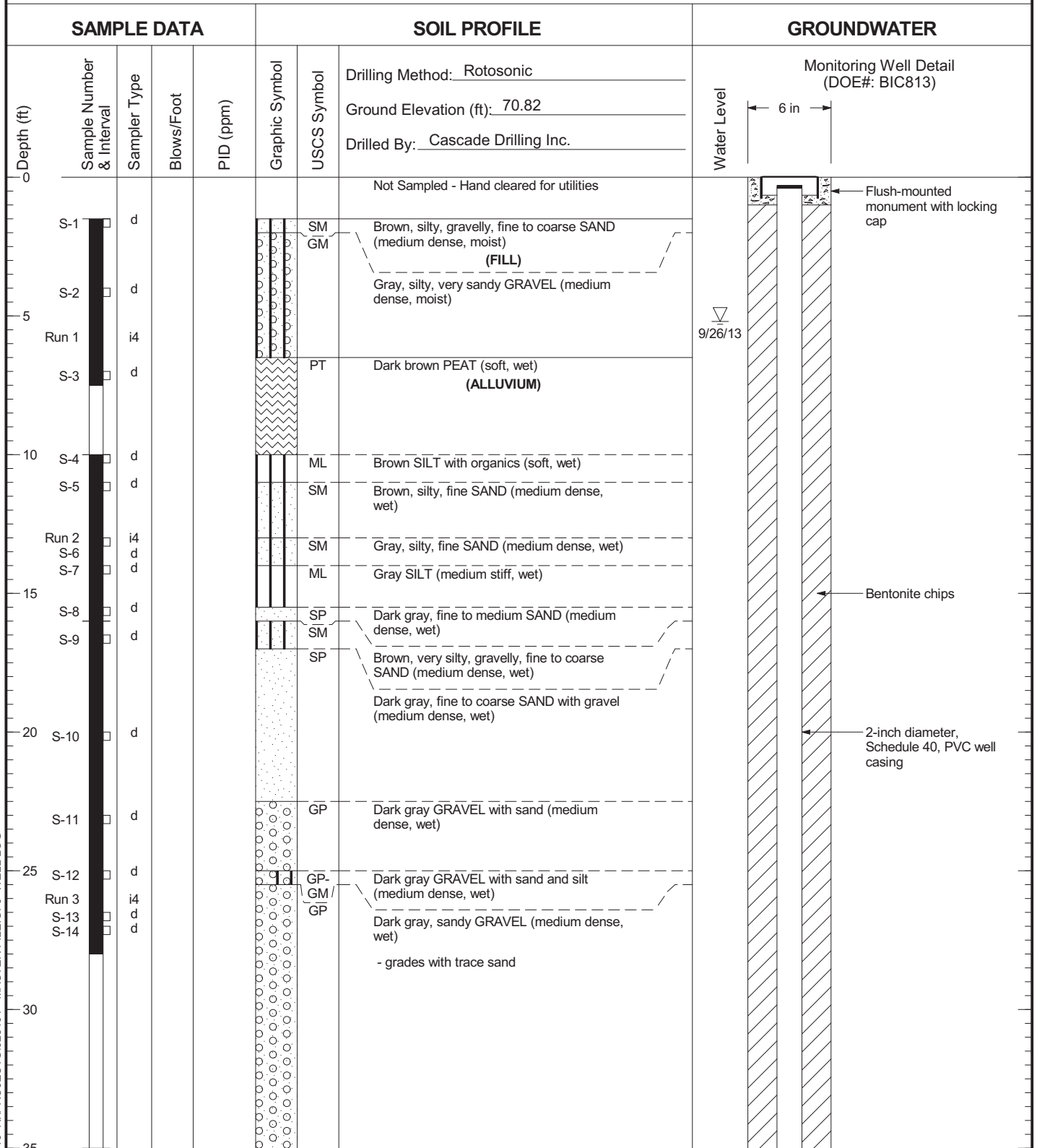


Boeing Auburn Remedial Investigation  
Auburn, Washington

Log of Monitoring Well AGW236

Figure C-205

# AGW237



- 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. DOE Unique Well Number: BIC813

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

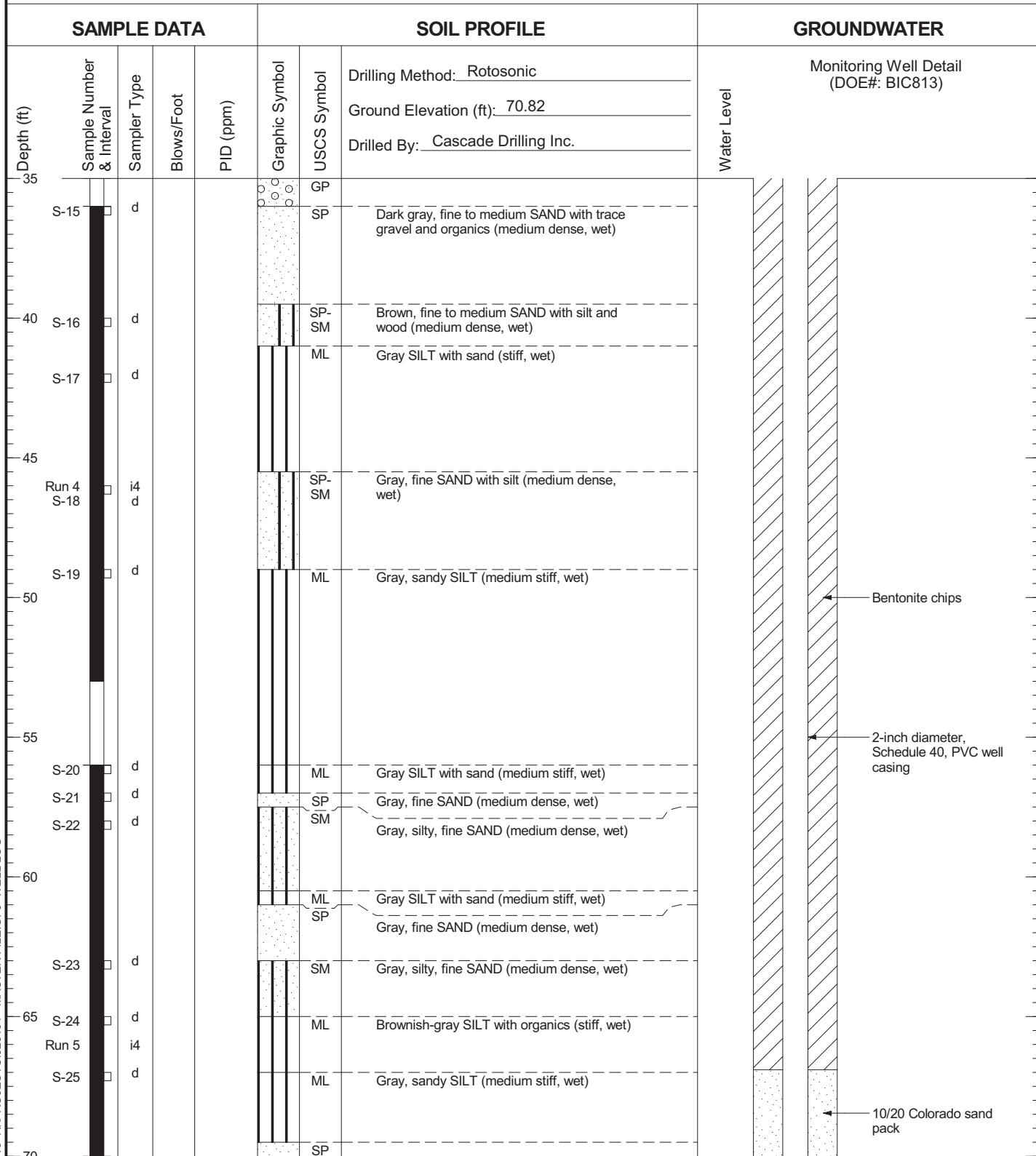


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW237

Figure  
C-206  
(1 of 3)

# AGW237



- 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. DOE Unique Well Number: BIC813

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

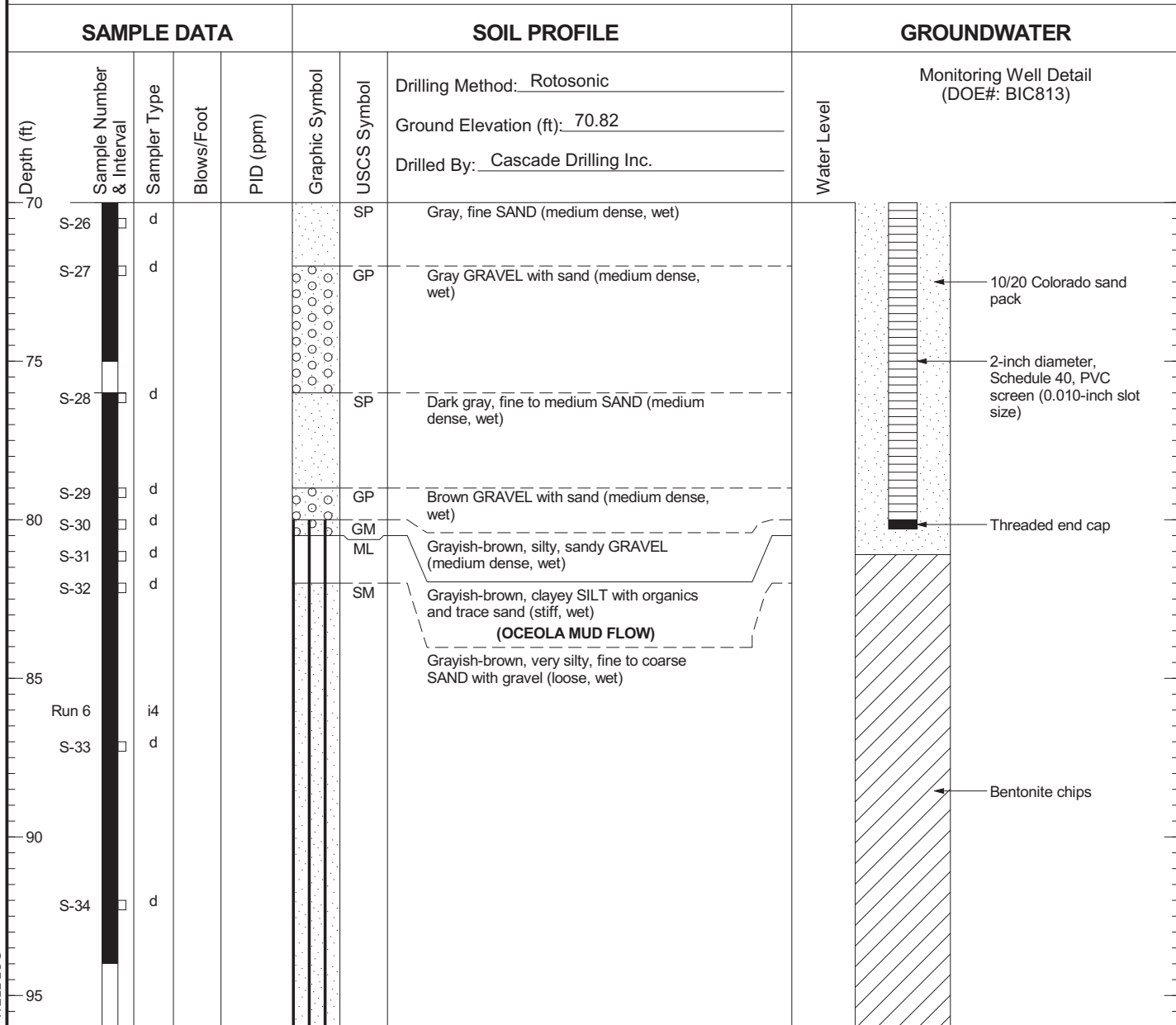


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW237

Figure  
C-206  
(2 of 3)

# AGW237



Boring Completed 09/23/13  
Total Depth of Boring = 96.0 ft.

Monitoring Well Completed 09/23/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 70.49 ft.  
Total Depth of Monitoring Well = 80.3 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. DOE Unique Well Number: BIC813

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

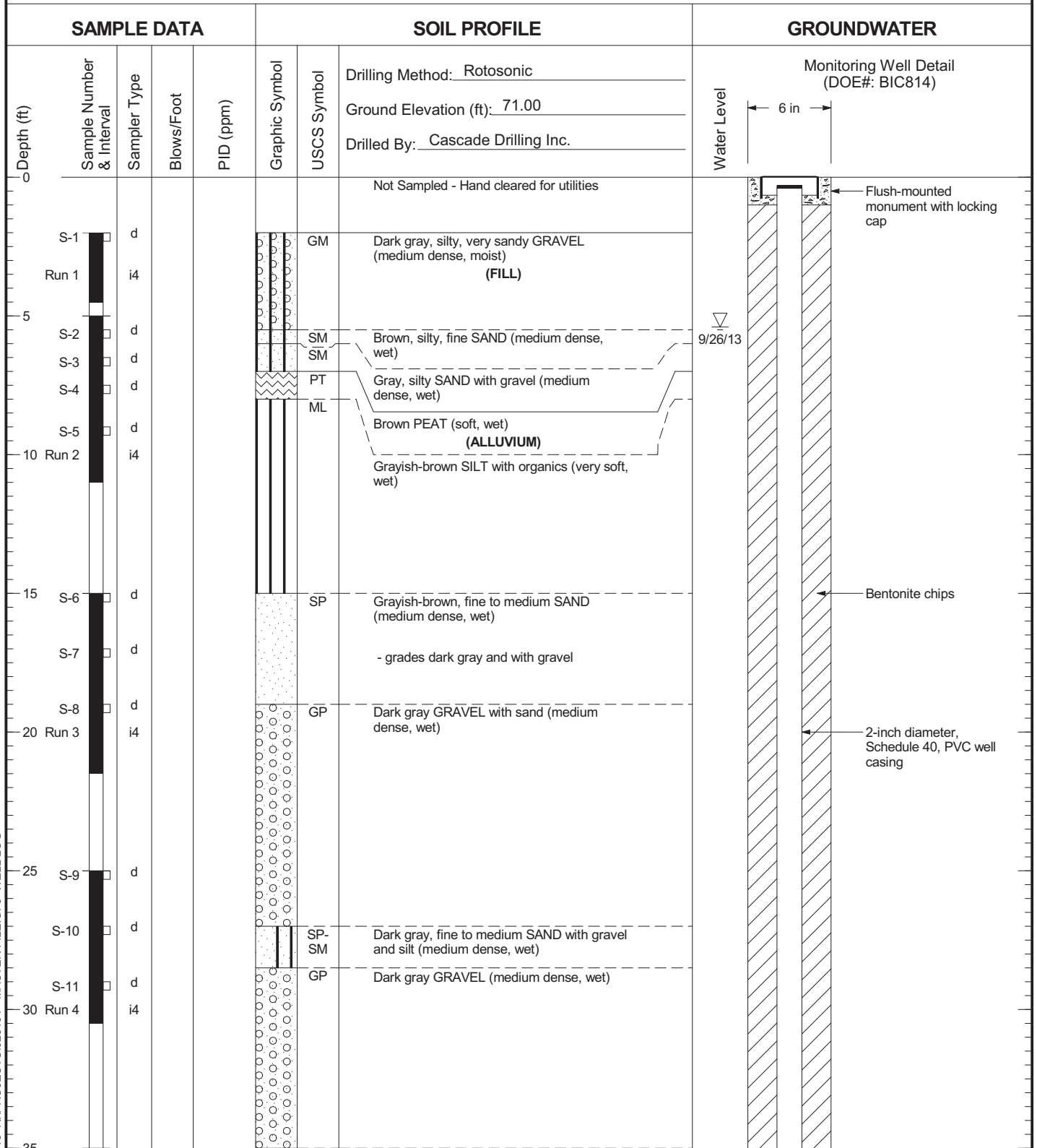


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW237

Figure  
C-206  
(3 of 3)

# AGW238



- 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. DOE Unique Well Number: BIC814

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

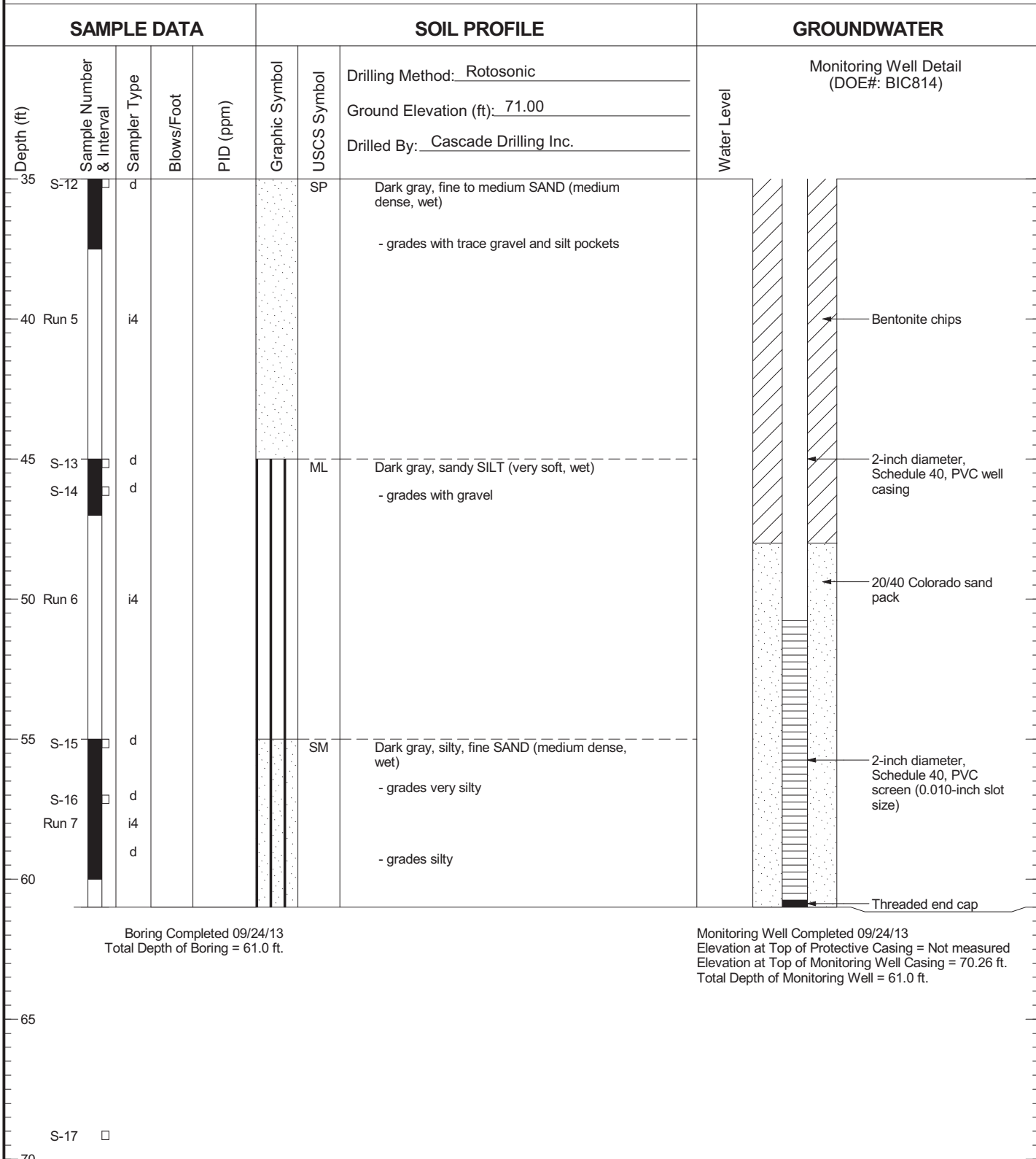


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW238

Figure  
C-207  
(1 of 2)

# AGW238



Boring Completed 09/24/13  
Total Depth of Boring = 61.0 ft.

Monitoring Well Completed 09/24/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 70.26 ft.  
Total Depth of Monitoring Well = 61.0 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. DOE Unique Well Number: BIC814

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

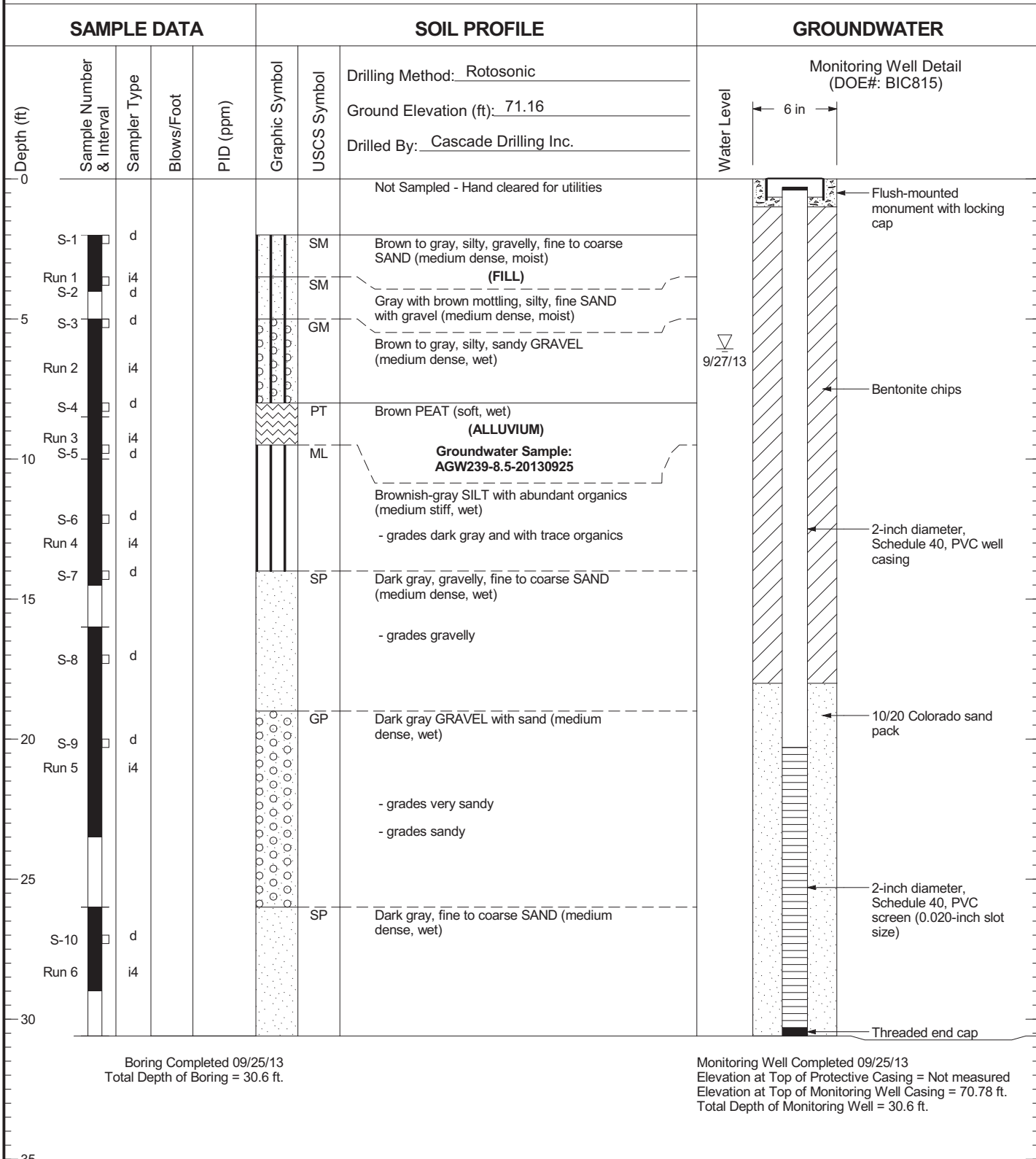


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW238

Figure  
C-207  
(2 of 2)

# AGW239



Boring Completed 09/25/13  
Total Depth of Boring = 30.6 ft.

Monitoring Well Completed 09/25/13  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 70.78 ft.  
Total Depth of Monitoring Well = 30.6 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. DOE Unique Well Number: BIC815

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



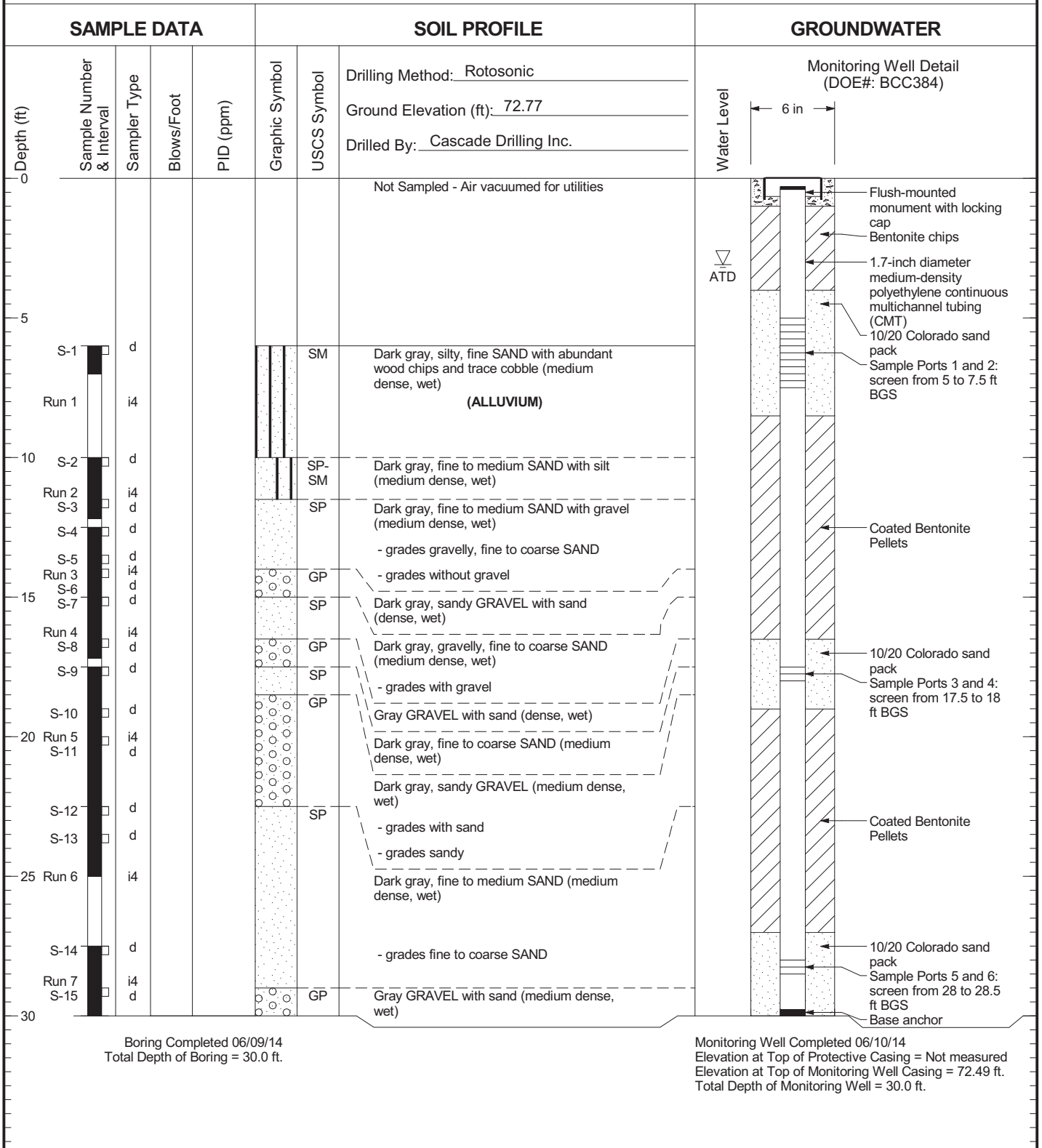
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Investigation  
Auburn, Washington

Log of Monitoring Well AGW239

Figure  
C-208



# AGW240



Boring Completed 06/09/14  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 06/10/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.49 ft.  
Total Depth of Monitoring Well = 30.0 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

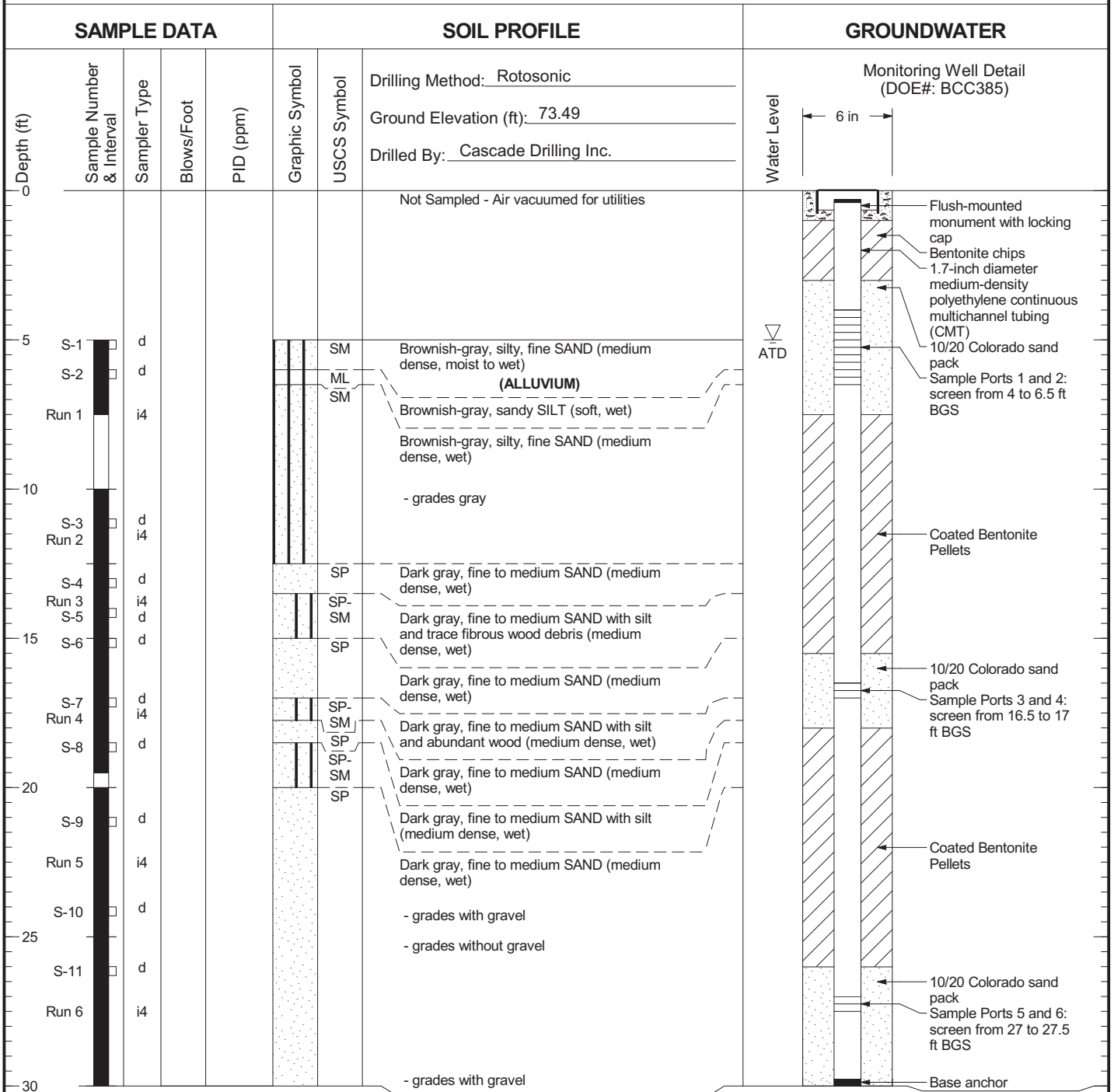


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Auburn, Washington

Log of Monitoring Well AGW240

Figure  
C-209

# AGW241



Boring Completed 06/11/14  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 06/11/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 73.28 ft.  
Total Depth of Monitoring Well = 30.0 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

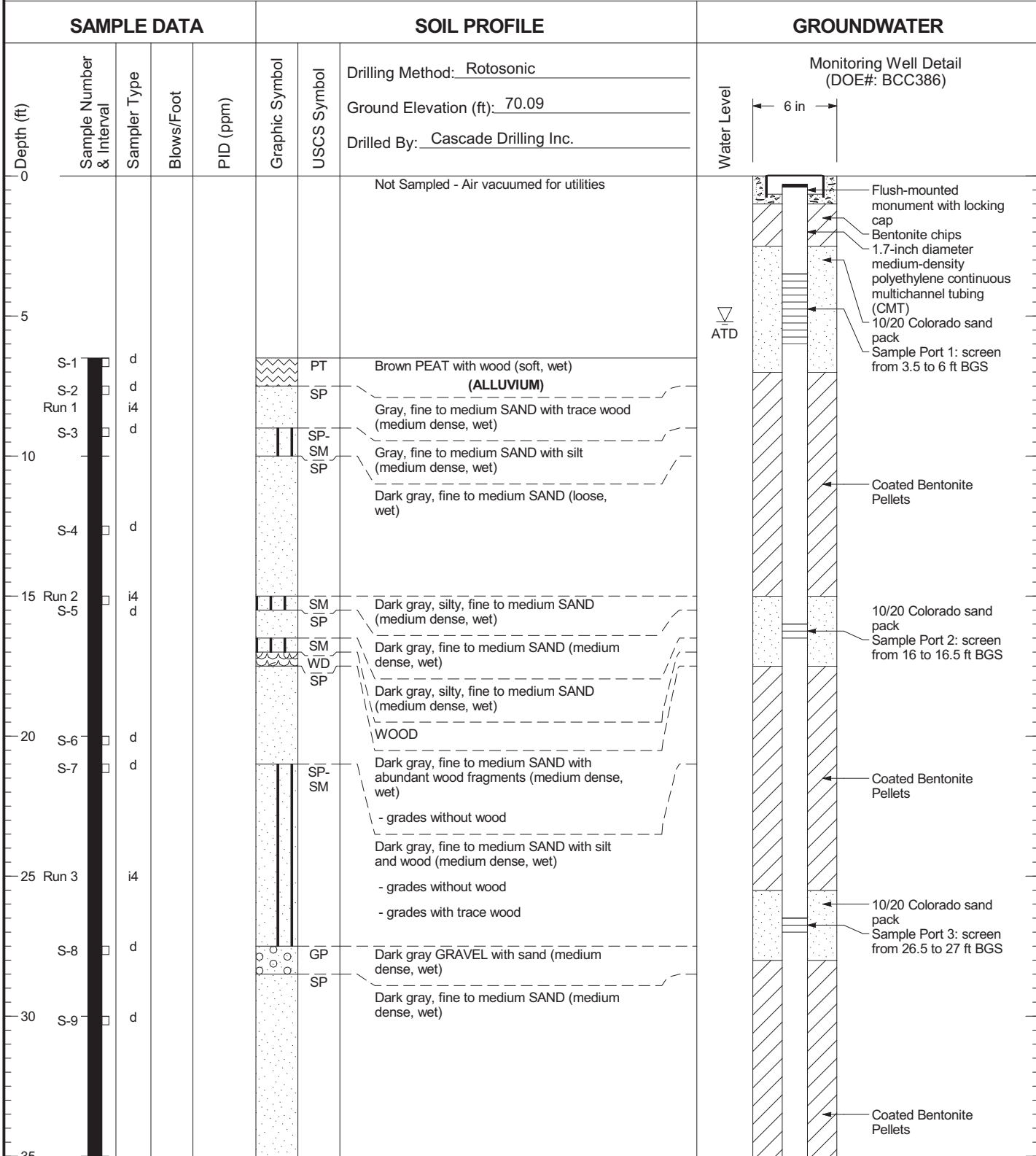


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW241

Figure  
C-210

# AGW242



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

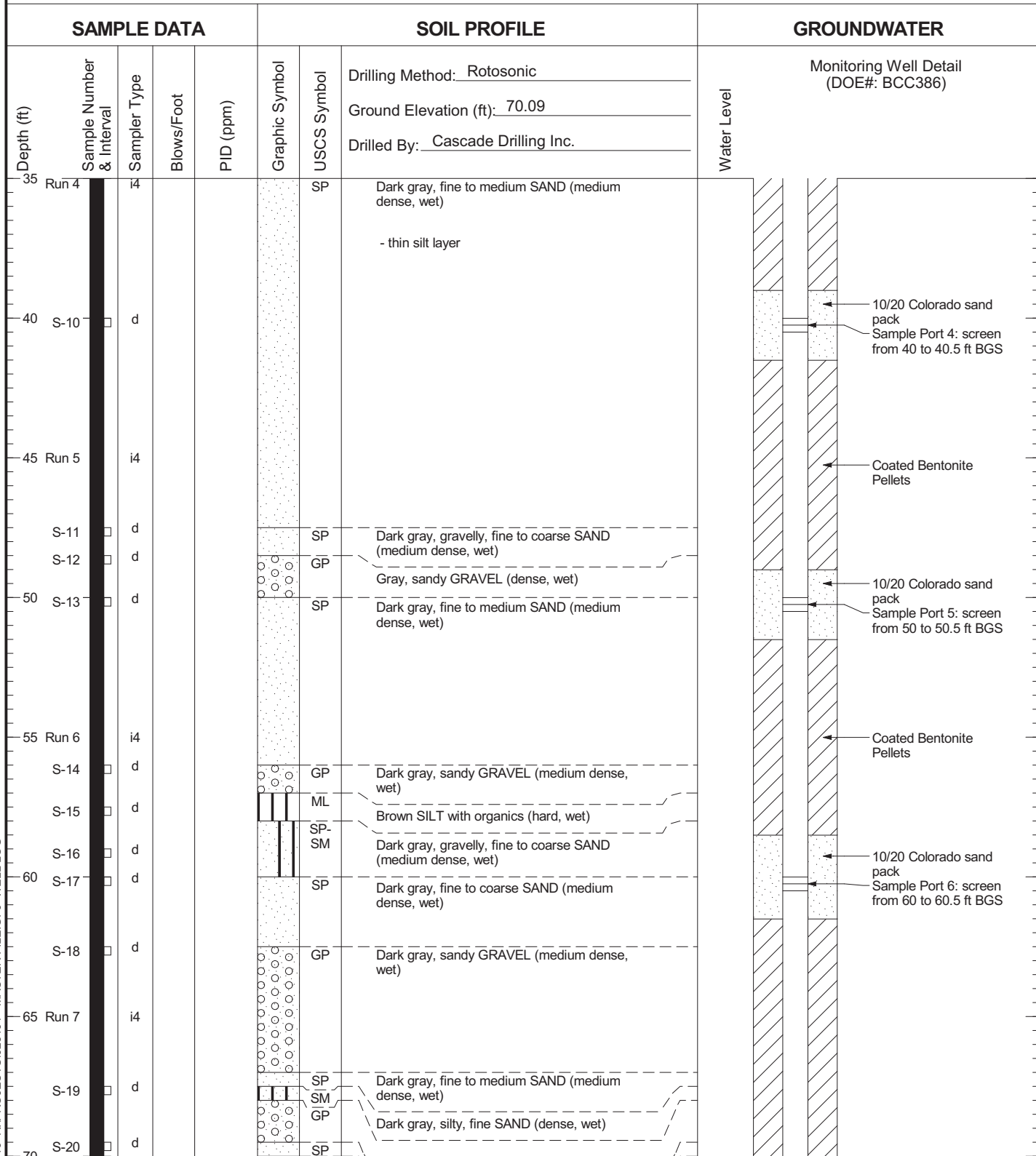


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW242

Figure  
C-211  
(1 of 3)

# AGW242



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW242

Figure  
C-211  
(2 of 3)

# AGW242

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		Water Level	Monitoring Well Detail (DOE#: BCC386)
							Ground Elevation (ft): <u>70.09</u>			
70	S-21	d			GP		Dark gray, sandy GRAVEL (dense, wet)		Coated Bentonite Pellets	
	S-22	d			SP		Dark gray, fine to medium SAND with gravel (dense, wet)			
	Run 8	i4			SP-SM		Dark gray, sandy GRAVEL (medium dense, wet)		10/20 Colorado sand pack	
	S-23	d			SM		Dark gray, gravelly, fine to coarse SAND (medium dense, wet)			
	S-24	d			ML		Dark gray, fine SAND with silt (medium dense, wet)		Sample Port 7: Channel 7 is the center channel with screen built into the base anchor from 81.8 to 82 ft BGS	
	S-25	d			SM		Gray SILT with organics (hard, wet)			
	S-26	d			SP		Grayish-brown, silty, fine SAND (medium dense, wet)		Base anchor	
	Run 9	i4			SM		Dark gray, fine to medium SAND (medium dense, wet)			
	S-27	d			SM		Gray, very silty, fine SAND (dense, wet)		Coated Bentonite Pellets	
	S-28	d			ML		Gray SILT with sand (hard, wet)			
	S-29	d			SM		Gray, silty, very gravelly, fine to coarse SAND with clay; gravels are sub-angular (dense, wet)			
	Run 10	i4					<b>(OSCEOLA MUD FLOW)</b>			

Boring Completed 06/12/14  
Total Depth of Boring = 90.0 ft.

Monitoring Well Completed 06/13/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 69.84 ft.  
Total Depth of Monitoring Well = 82.3 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

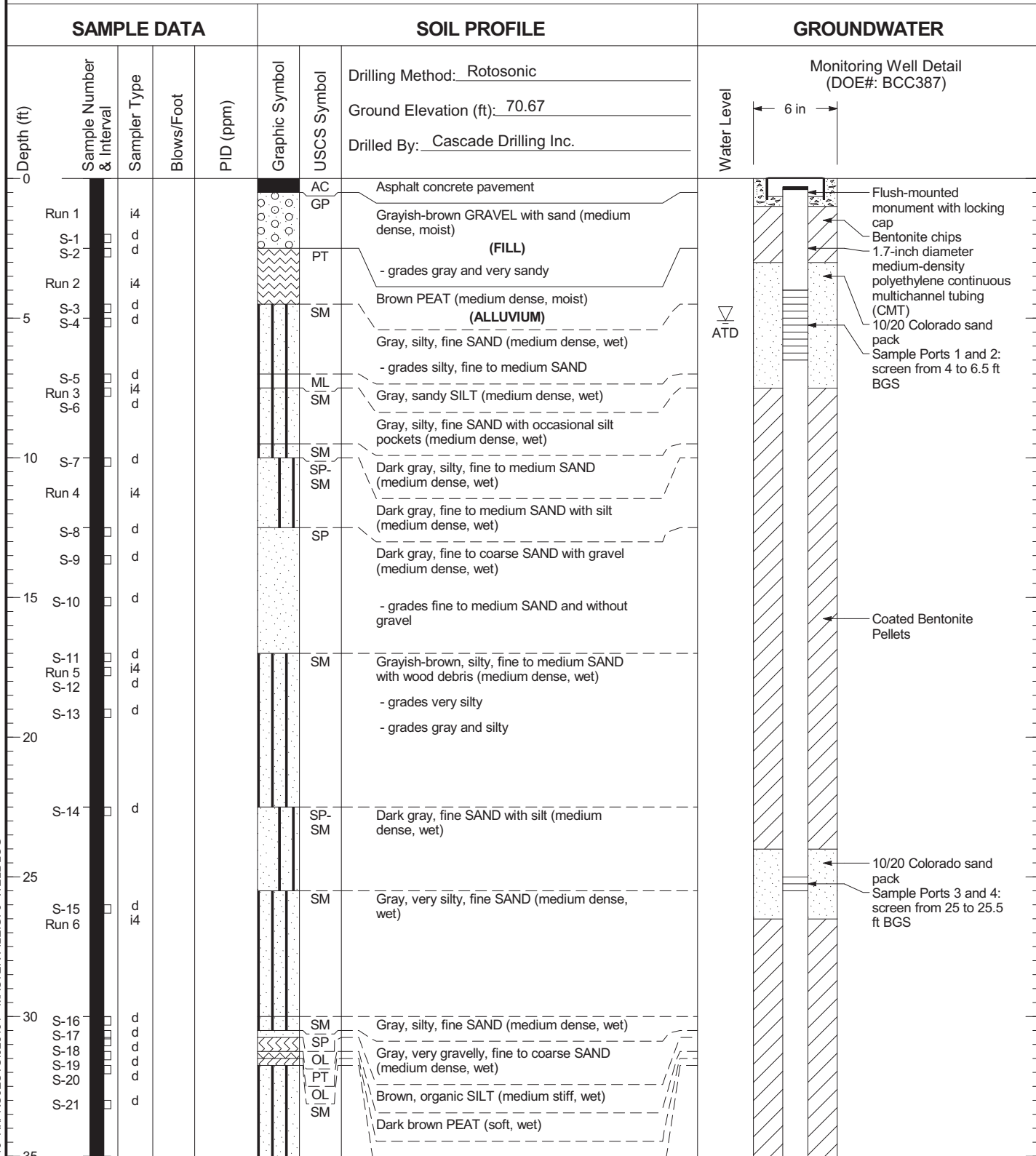


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW242

Figure  
C-211  
(3 of 3)

# AGW243



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW243

Figure  
C-212  
(1 of 2)

# AGW243

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>70.67</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: BCC387)
35	Run 7	i4			[Symbol]	SM	Brown, organic SILT (medium stiff, wet) Gray, silty, fine SAND with organics (medium dense, wet) - grades silty		
40	S-22	d			[Symbol]	SM	Gray, silty, very gravelly, fine to coarse SAND (loose, wet)		
	S-23	d			[Symbol]	SP	Dark gray, fine to coarse SAND with gravel (medium dense, wet)		
	S-24	d			[Symbol]	GP	Dark gray, fine to coarse SAND with gravel (medium dense, wet)		
	S-25	d			[Symbol]	SP	Dark gray, sandy GRAVEL (medium dense, wet)		
45	Run 8	i4			[Symbol]	SP	Dark gray, fine to coarse SAND with gravel and wood (medium dense, wet)		
	S-26	d			[Symbol]	SP-SM	Dark gray, gravelly, fine to coarse SAND with silt (medium dense, wet)		
	S-27	d			[Symbol]	ML	Grayish-brown, very sandy SILT (stiff, wet)		
	S-28	d			[Symbol]	SP-SM	Dark gray, fine to medium SAND with silt (medium dense, wet)		
50	S-29	d			[Symbol]	SP	Dark gray, fine to medium SAND (medium dense, wet)		
	S-30	d			[Symbol]	SP	Dark gray, fine to medium SAND with silt (medium dense, wet)		
	Run 9	i4			[Symbol]	SM	Dark gray, silty, fine to medium SAND with woody organics (medium dense, wet)		
	S-31	d			[Symbol]	SM	Dark gray, silty, fine to medium SAND with woody organics (medium dense, wet) - grades silty, fine SAND		
55									

Boring Completed 06/16/14  
 Total Depth of Boring = 55.0 ft.

Monitoring Well Completed 06/17/14  
 Elevation at Top of Protective Casing = Not measured  
 Elevation at Top of Monitoring Well Casing = 70.44 ft.  
 Total Depth of Monitoring Well = 51.4 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

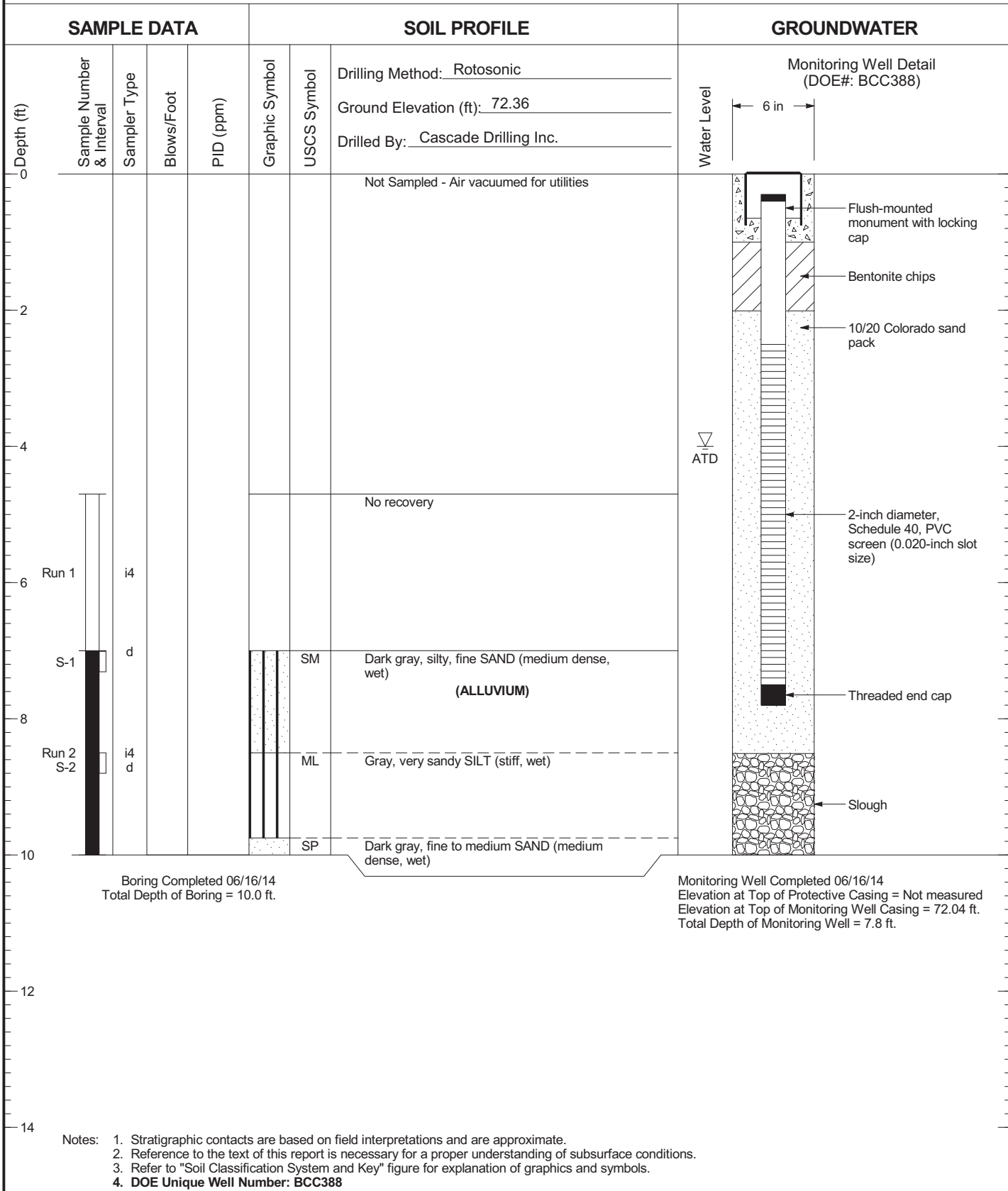


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 Investigation  
 Auburn, Washington

Log of Monitoring Well AGW243

Figure  
 C-212  
 (2 of 2)

# AGW244



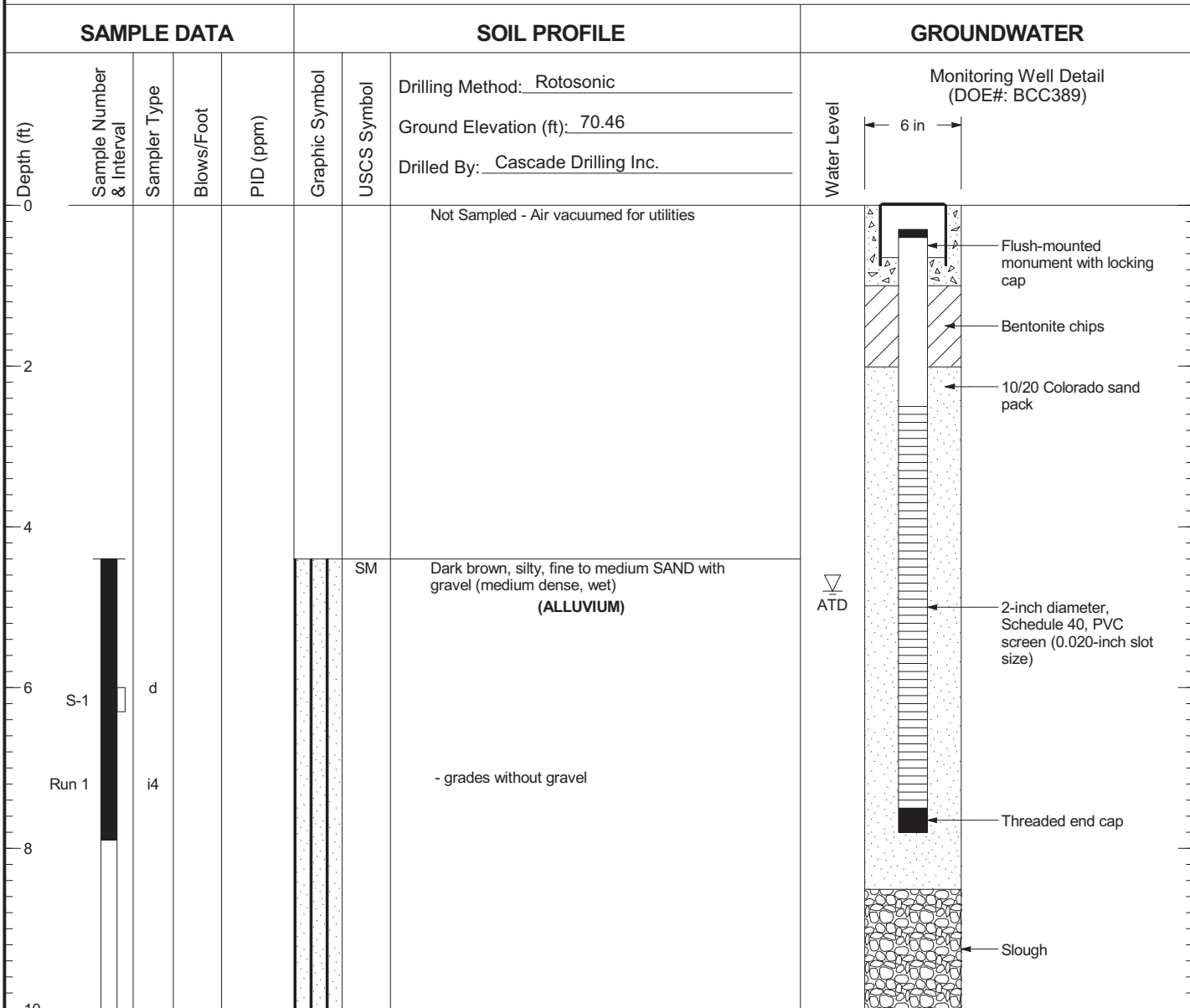
- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Unique Well Number: BCC388

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG





# AGW245



Boring Completed 06/17/14  
Total Depth of Boring = 10.0 ft.

Monitoring Well Completed 06/17/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 70.21 ft.  
Total Depth of Monitoring Well = 7.8 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. DOE Unique Well Number: BCC389

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

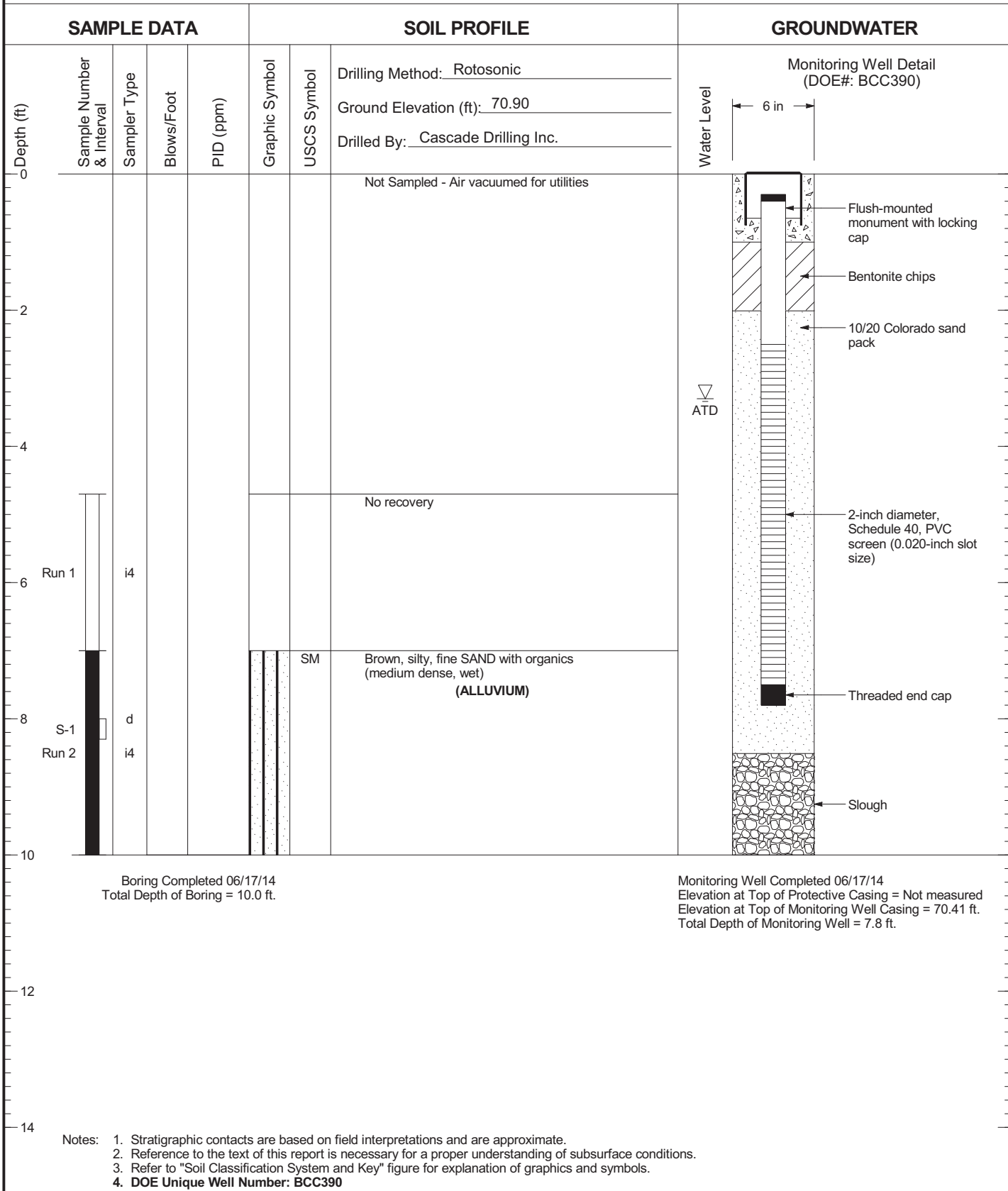


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Auburn, Washington

Log of Monitoring Well AGW245

Figure  
C-214

# AGW246



Boring Completed 06/17/14  
Total Depth of Boring = 10.0 ft.

Monitoring Well Completed 06/17/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 70.41 ft.  
Total Depth of Monitoring Well = 7.8 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. DOE Unique Well Number: BCC390

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

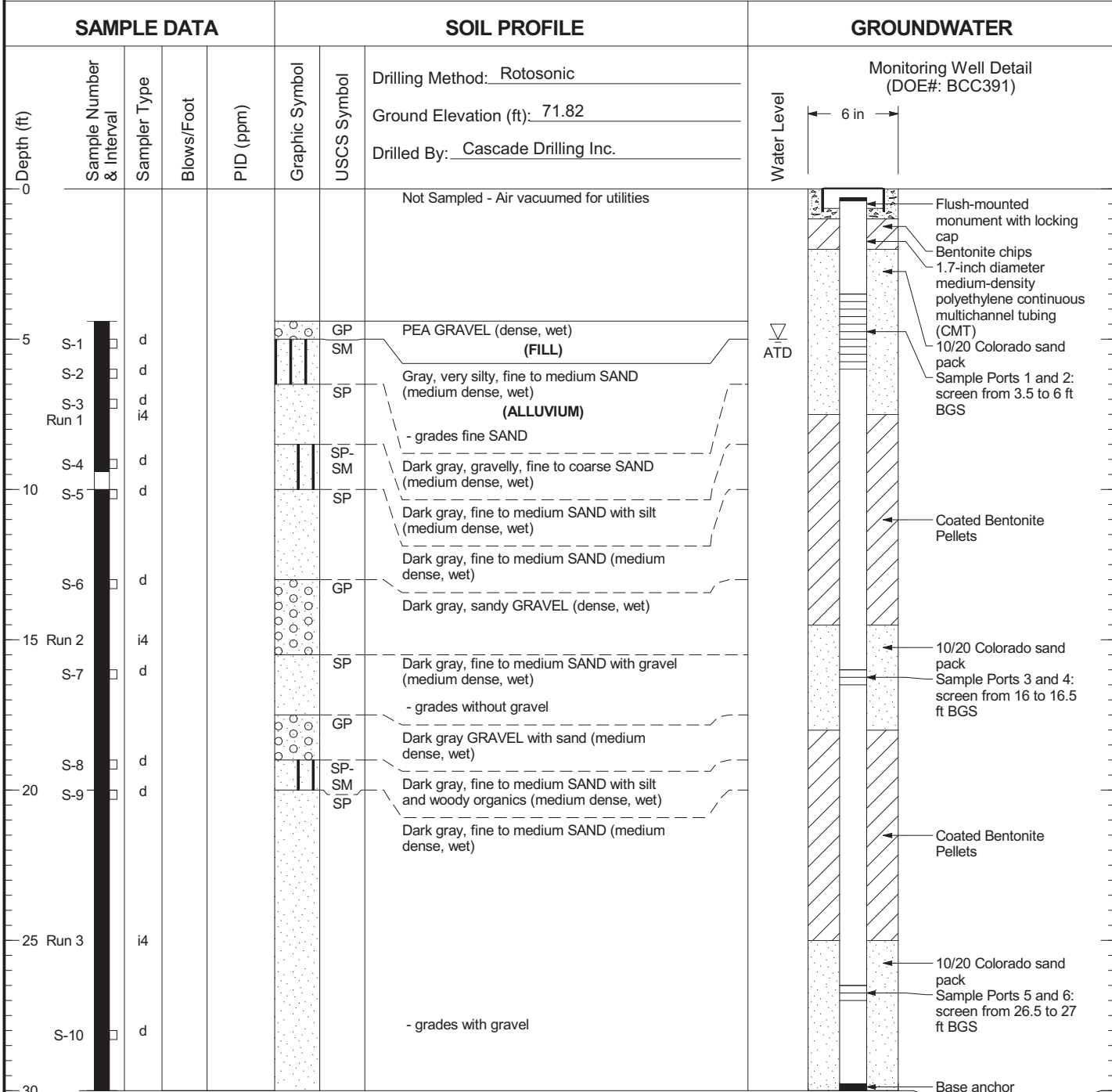


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW246

Figure  
C-215

# AGW247



Boring Completed 06/18/14  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 06/18/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.55 ft.  
Total Depth of Monitoring Well = 30.0 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

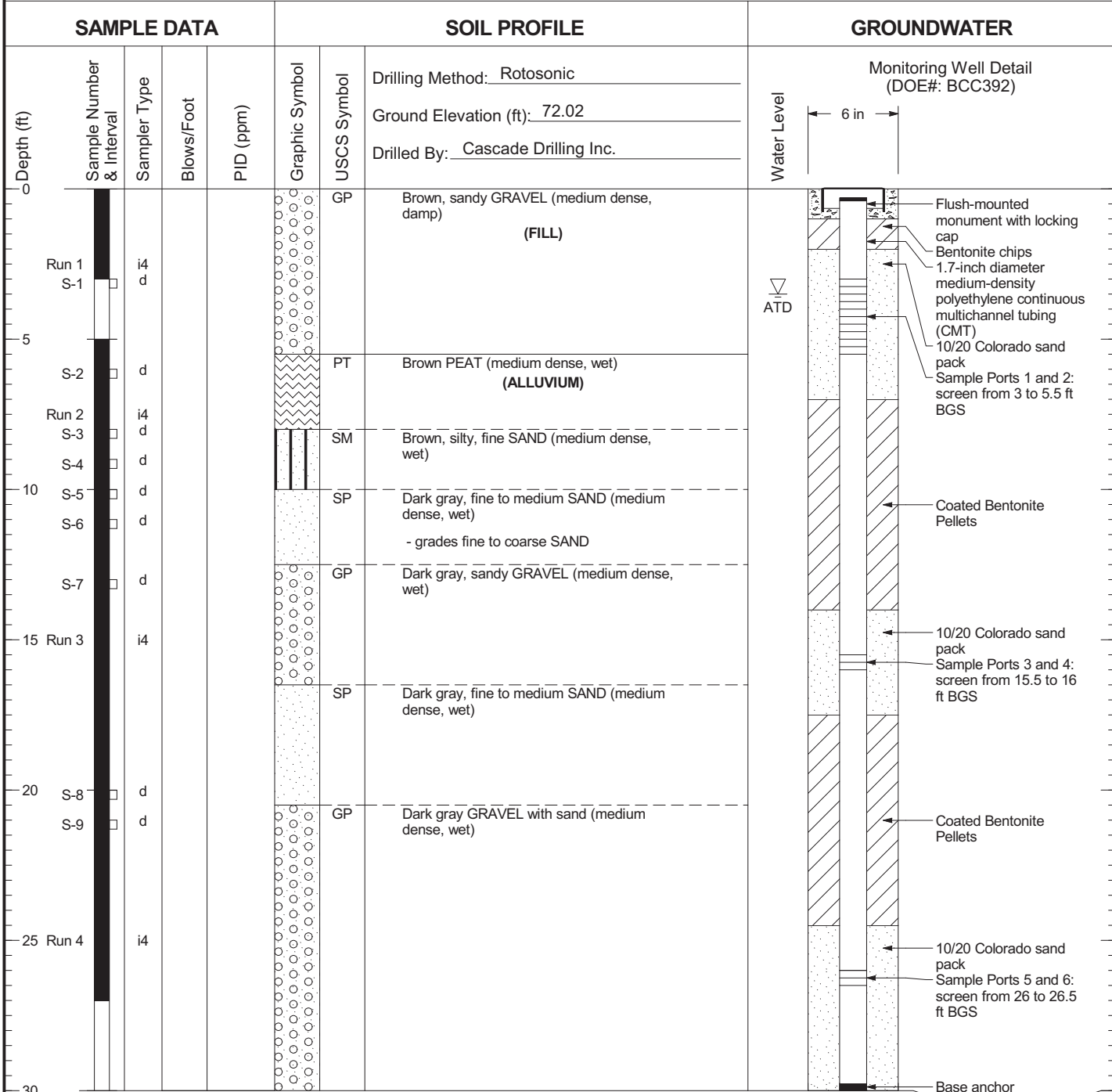


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW247

Figure  
C-216

# AGW248



Boring Completed 06/19/14  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 06/19/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.83 ft.  
Total Depth of Monitoring Well = 30.0 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

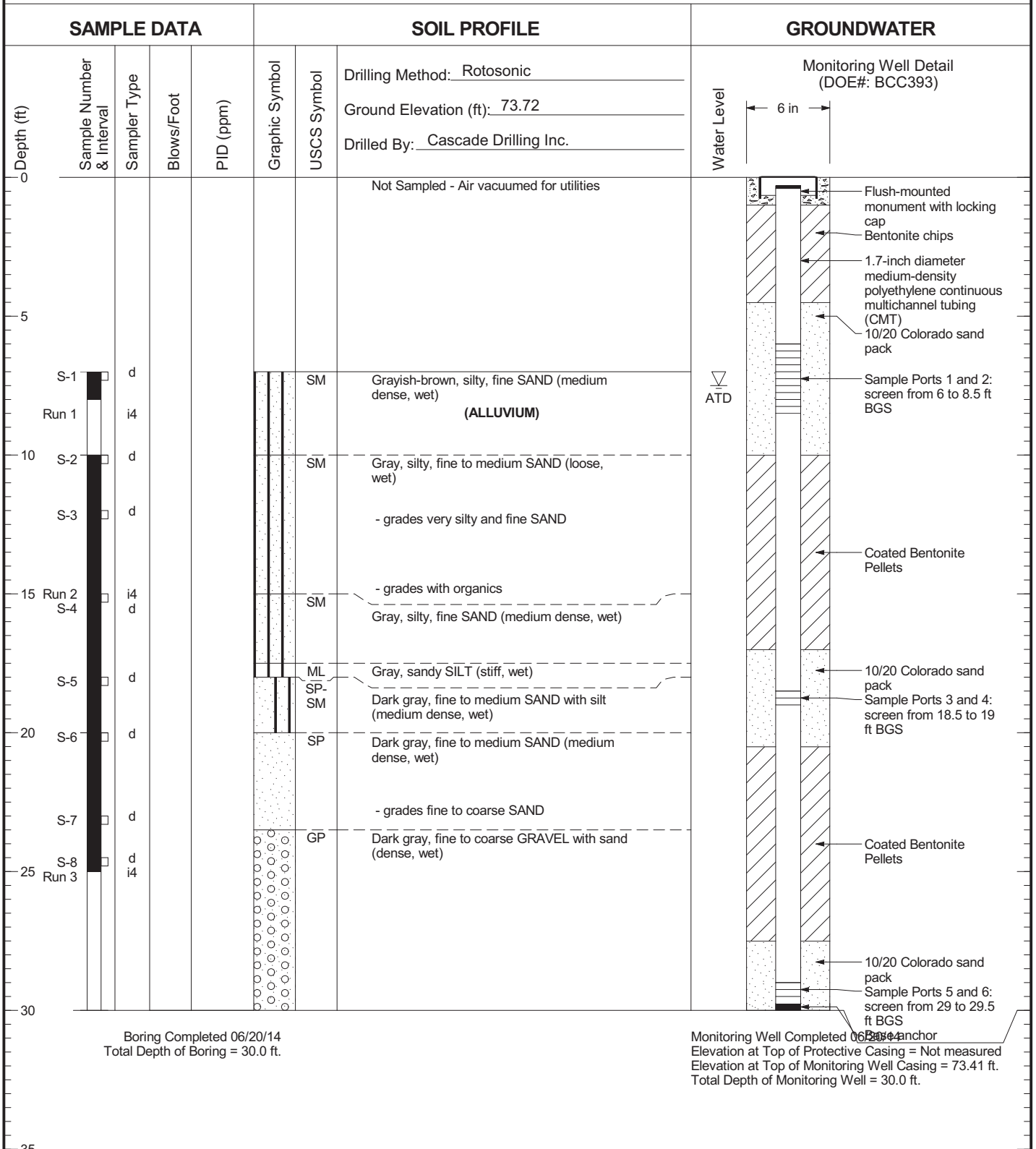


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW248

Figure  
C-217

# AGW249



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

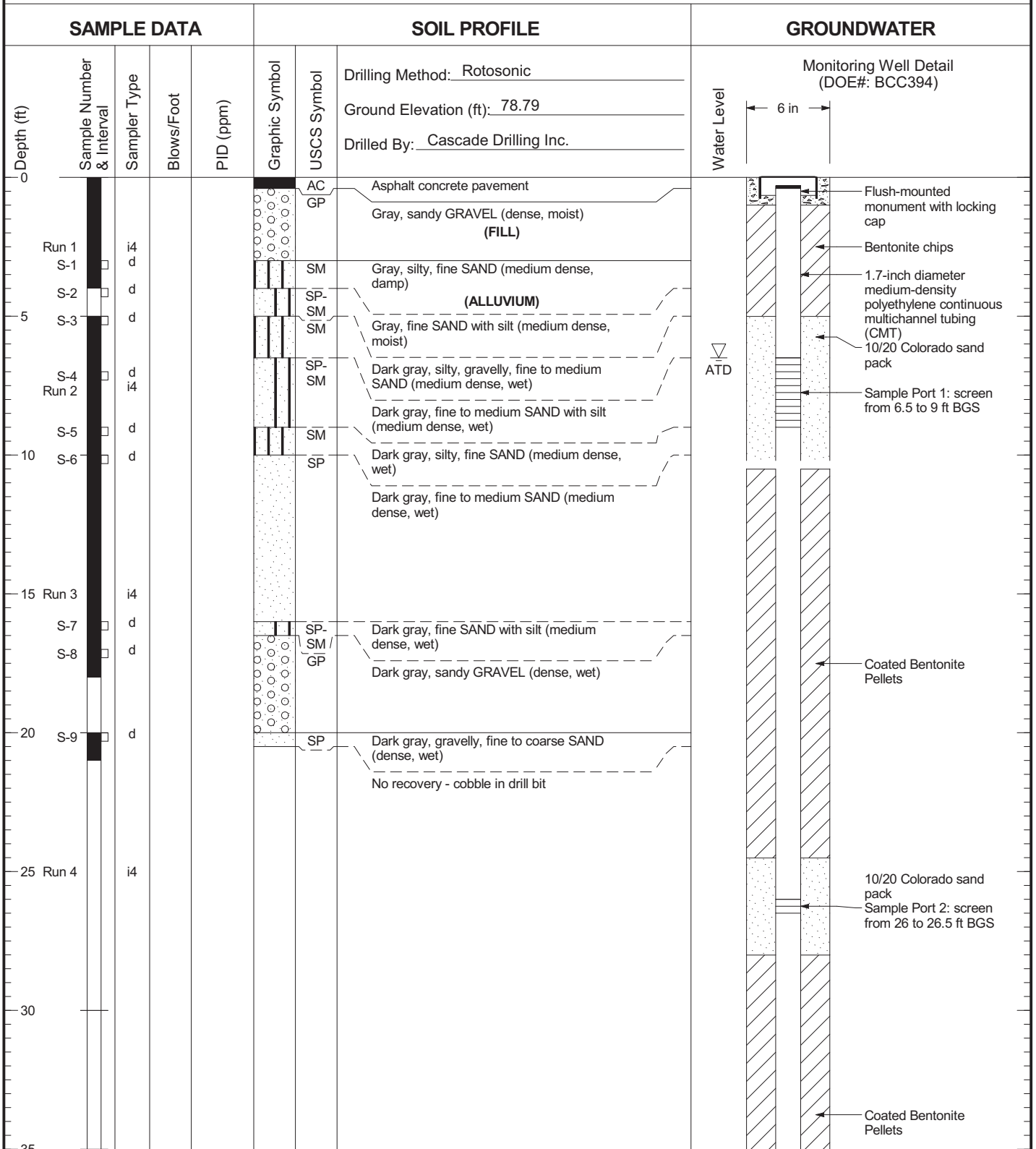


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW249

Figure  
C-218

# AGW250



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

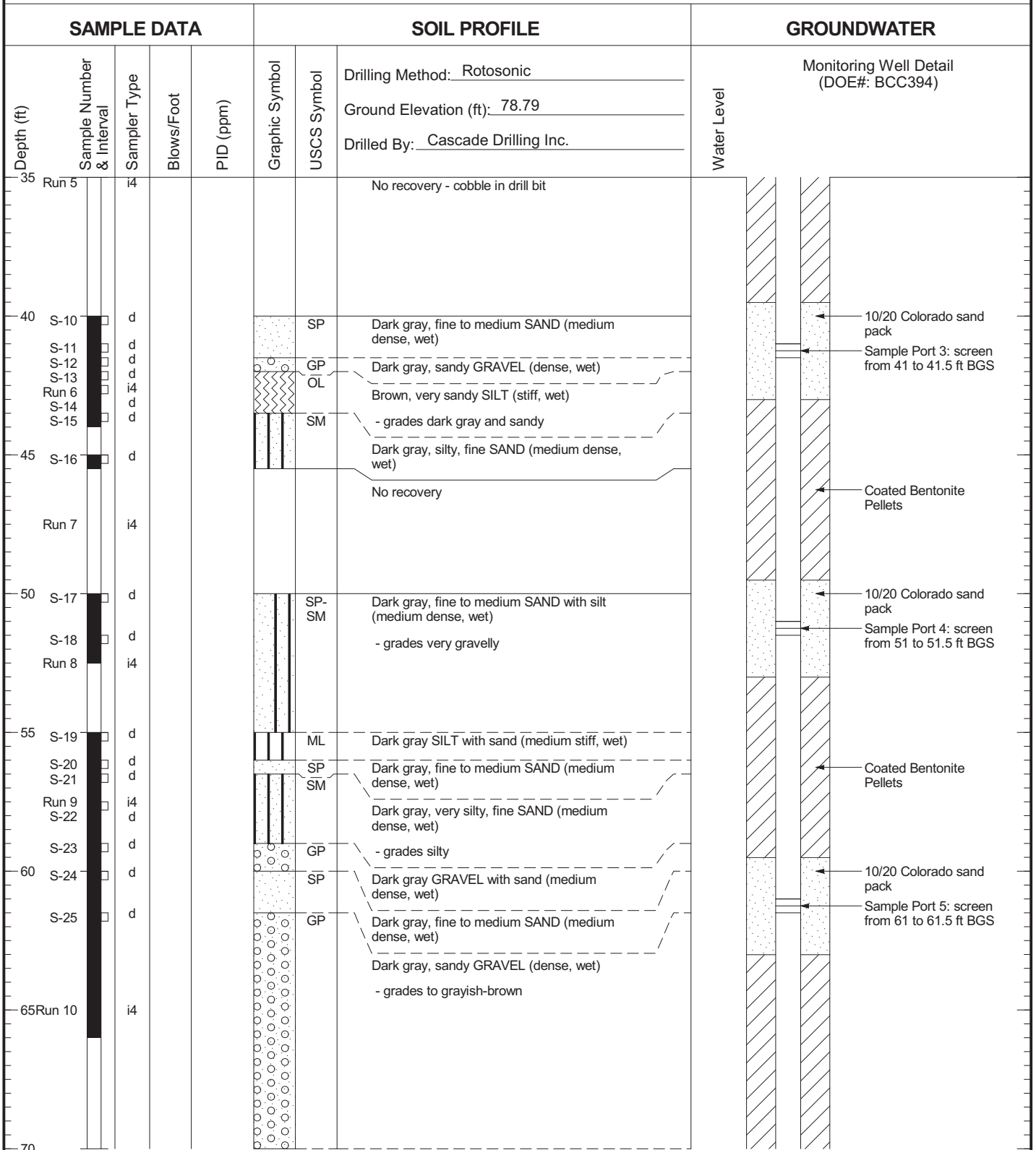


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW250

Figure  
C-219  
(1 of 3)

# AGW250



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW250

Figure  
C-219  
(2 of 3)

# AGW250

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		
							Ground Elevation (ft): <u>78.79</u>		
							Drilled By: <u>Cascade Drilling Inc.</u>		
							Water Level	Monitoring Well Detail (DOE#: BCC394)	
70	S-26	d				SP-SM	Dark gray, fine to medium SAND with silt (medium dense, wet)		
	S-27	d				SM	Dark gray, silty, fine to medium SAND (medium dense, wet)		
75	Run 11	i4				SP	Dark gray, fine to medium SAND (medium dense, wet)		
	S-28	d				WD	WOOD with sand (medium dense, wet)		
	S-29	d				SP	Dark gray, fine to medium SAND (medium dense, wet)		
	S-30	d				SM	Dark gray, silty, fine to medium SAND (medium dense, wet) - grades very silty		
80	S-31	d				SP-SM	Dark gray, fine to medium SAND with silt (medium dense, wet)		
	Run 12	i4				SM	Dark gray, very silty, fine SAND (medium dense, wet)		
85	S-32	d				SP-SM	Dark gray, fine to medium SAND with silt (medium dense, wet)		
	Run 13	i4				SM	Dark gray, silty, fine to medium SAND with trace organics (medium dense, wet)		
90	S-33	d				ML	Dark gray, sandy SILT (very stiff, wet) <b>(OSCEOLA MUD FLOW)</b>		
	S-34	d				SM	Dark gray, silty, fine to medium SAND with trace organics (medium dense, wet)		
	S-35	d				SM	Gray, silty, very gravelly, fine to coarse SAND with clay; gravels are sub-angular (dense, wet)		
	Run 14	i4				SM	Gray, silty, very gravelly, fine to coarse SAND with clay; gravels are sub-angular (dense, wet)		
95	S-36	d				SM	Gray, silty, very gravelly, fine to coarse SAND with clay; gravels are sub-angular (dense, wet)		

Boring Completed 06/23/14  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 06/24/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 78.45 ft.  
Total Depth of Monitoring Well = 90.0 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



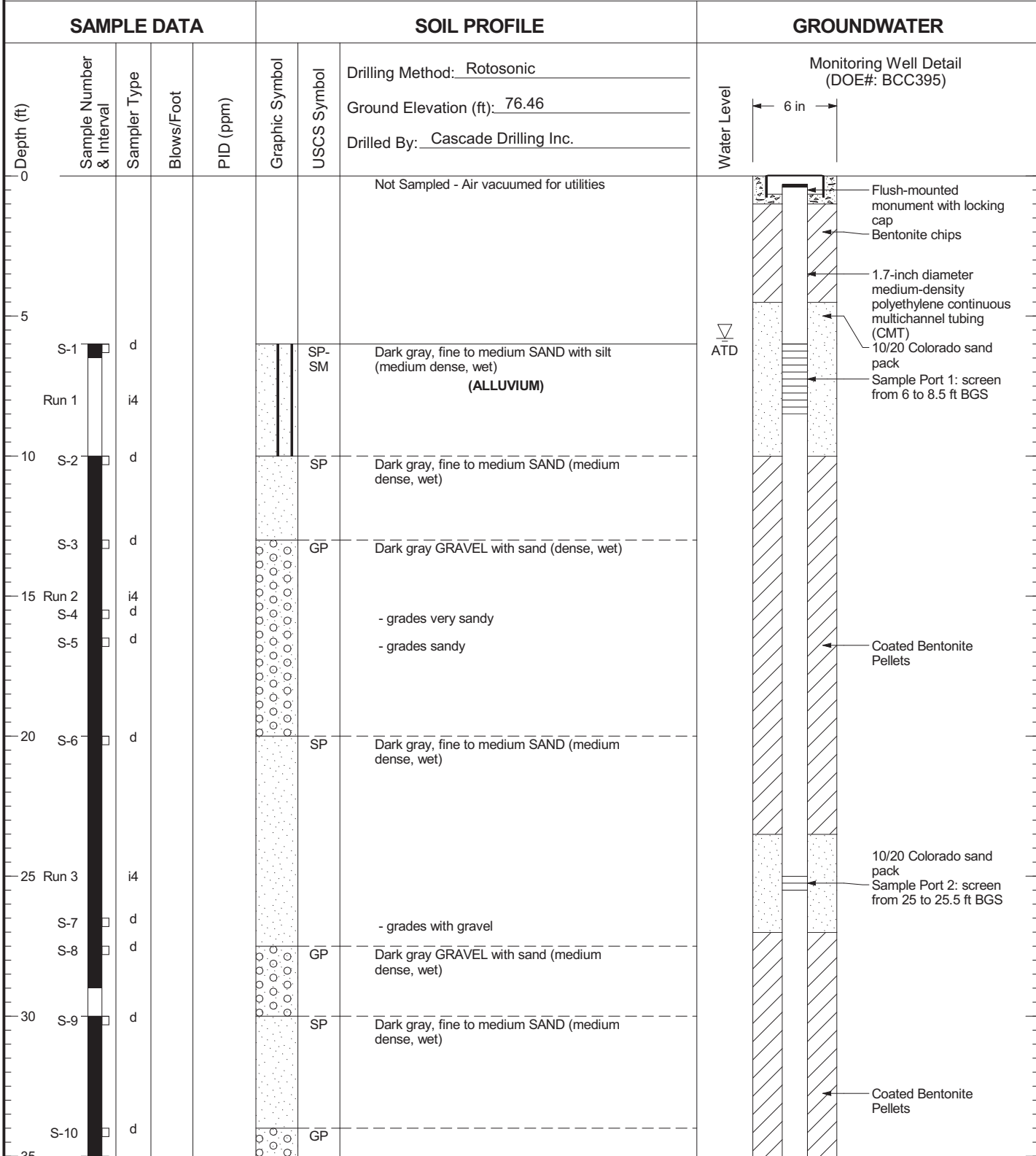
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW250

Figure  
C-219  
(3 of 3)



# AGW251



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

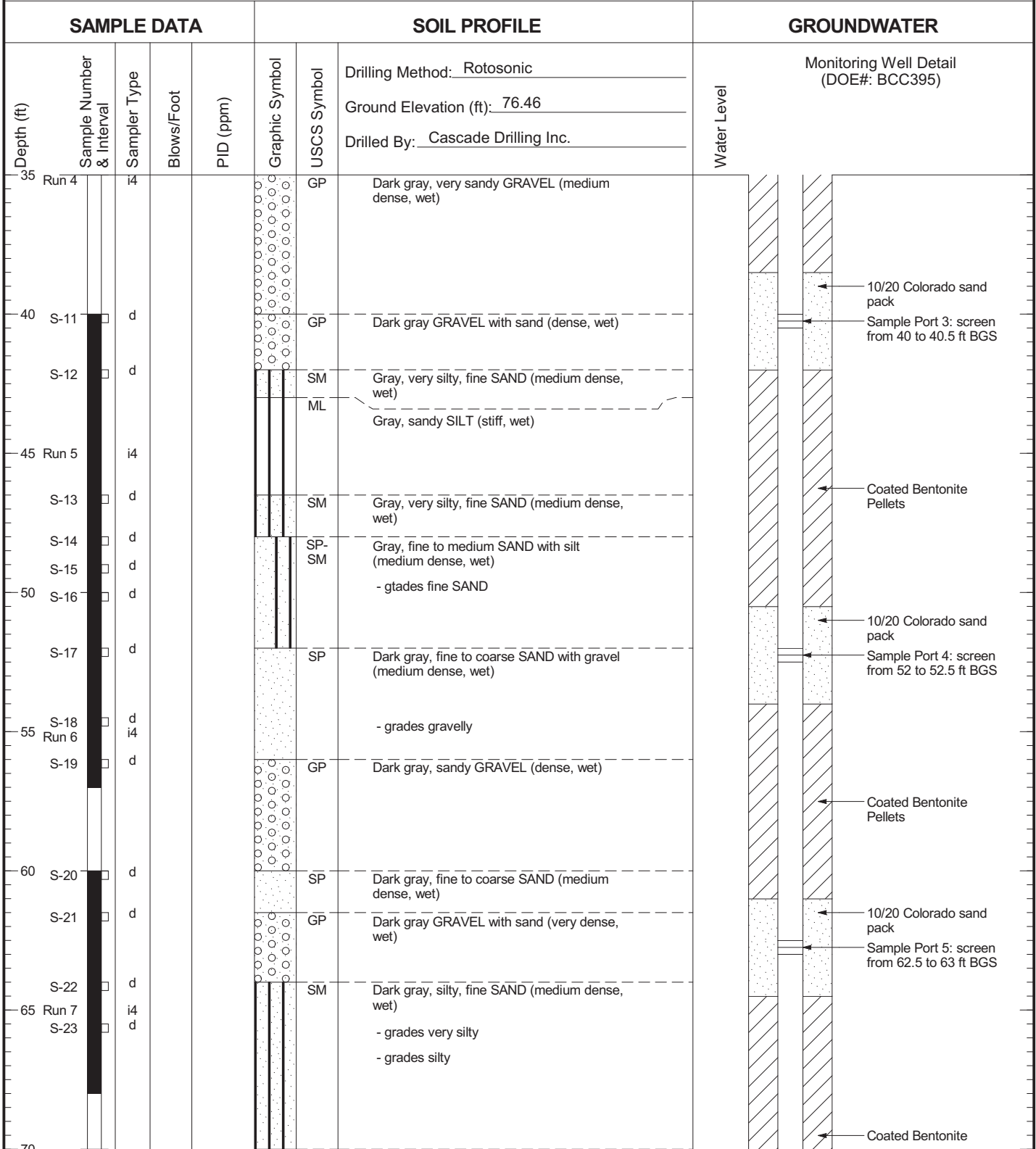


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW251

Figure  
C-220  
(1 of 3)

# AGW251



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

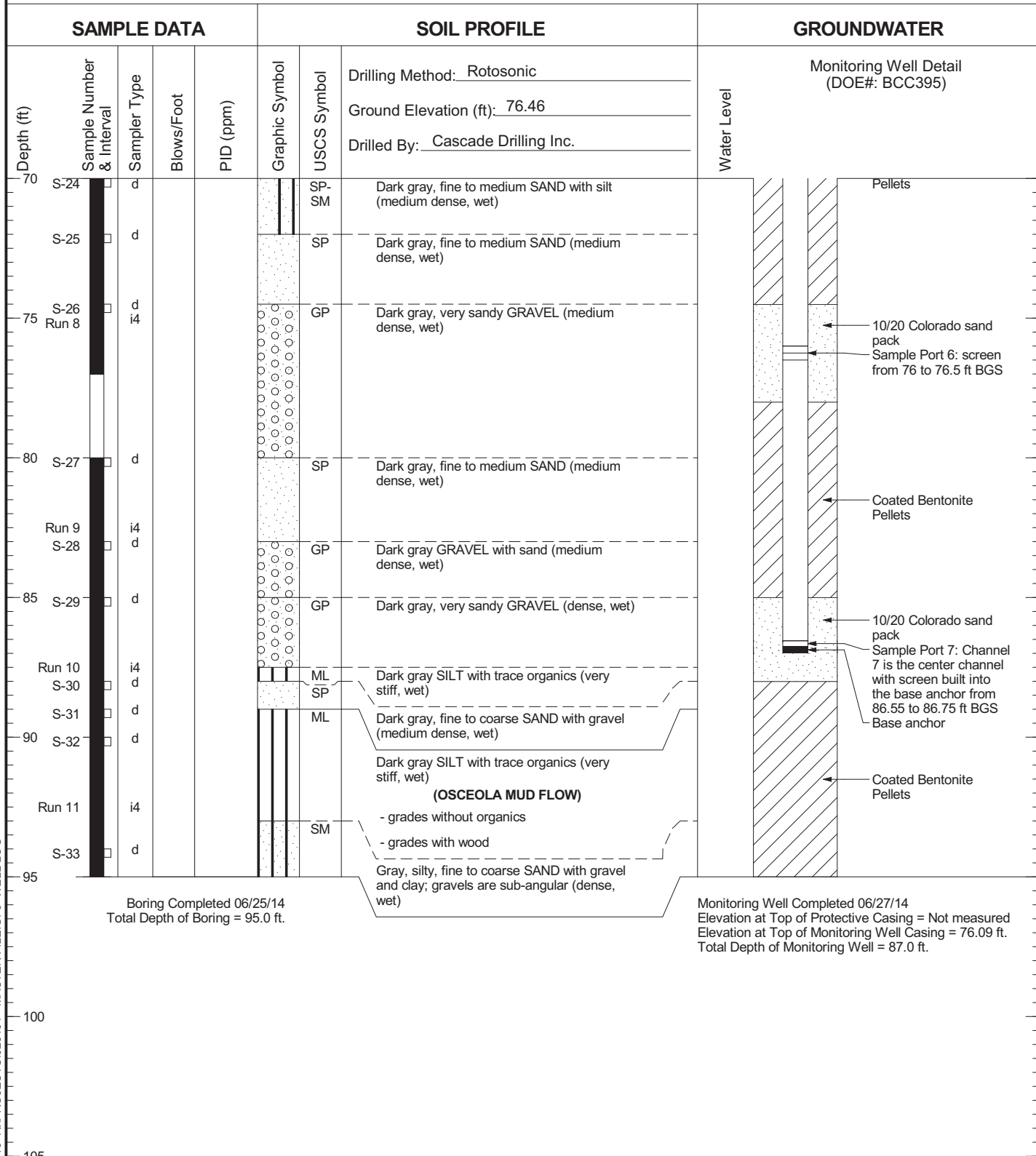


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW251

Figure  
C-220  
(2 of 3)

# AGW251



Boring Completed 06/25/14  
Total Depth of Boring = 95.0 ft.

Monitoring Well Completed 06/27/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.09 ft.  
Total Depth of Monitoring Well = 87.0 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164 - 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

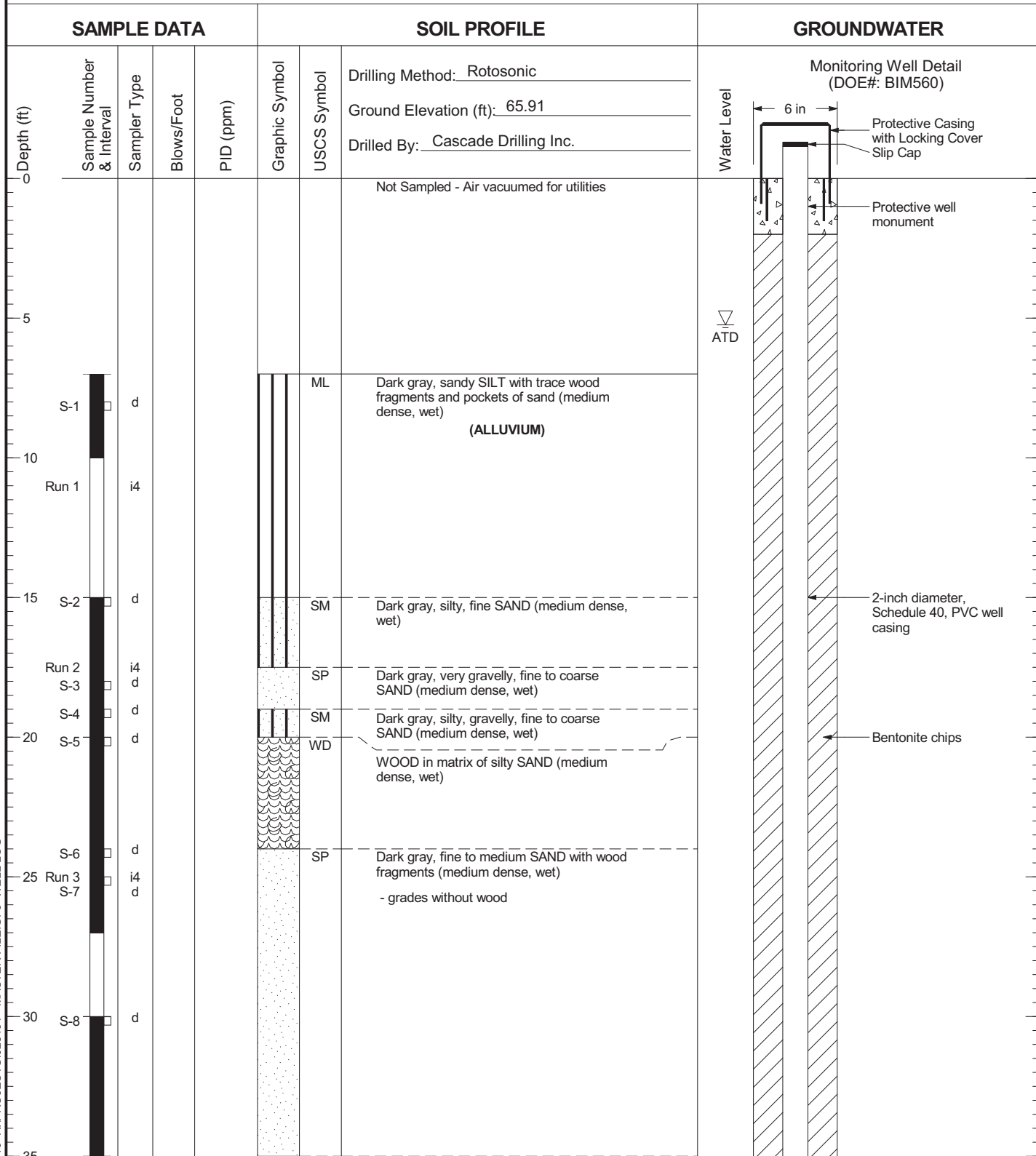


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW251

Figure  
C-220  
(3 of 3)

# AGW252



- 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. DOE Unique Well Number: BIM560

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

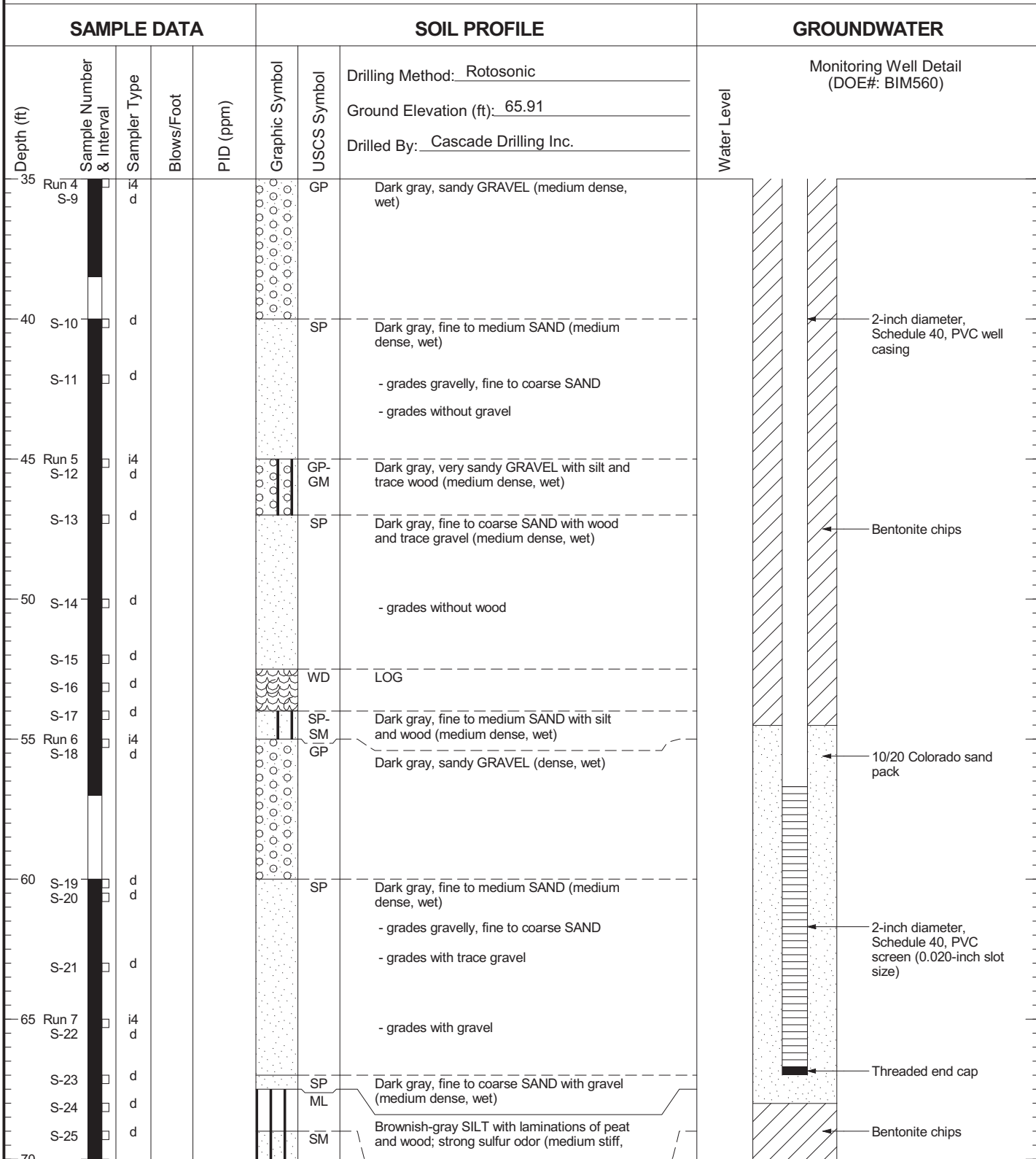


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW252

Figure  
C-221  
(1 of 3)

# AGW252



- 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. DOE Unique Well Number: BIM560

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

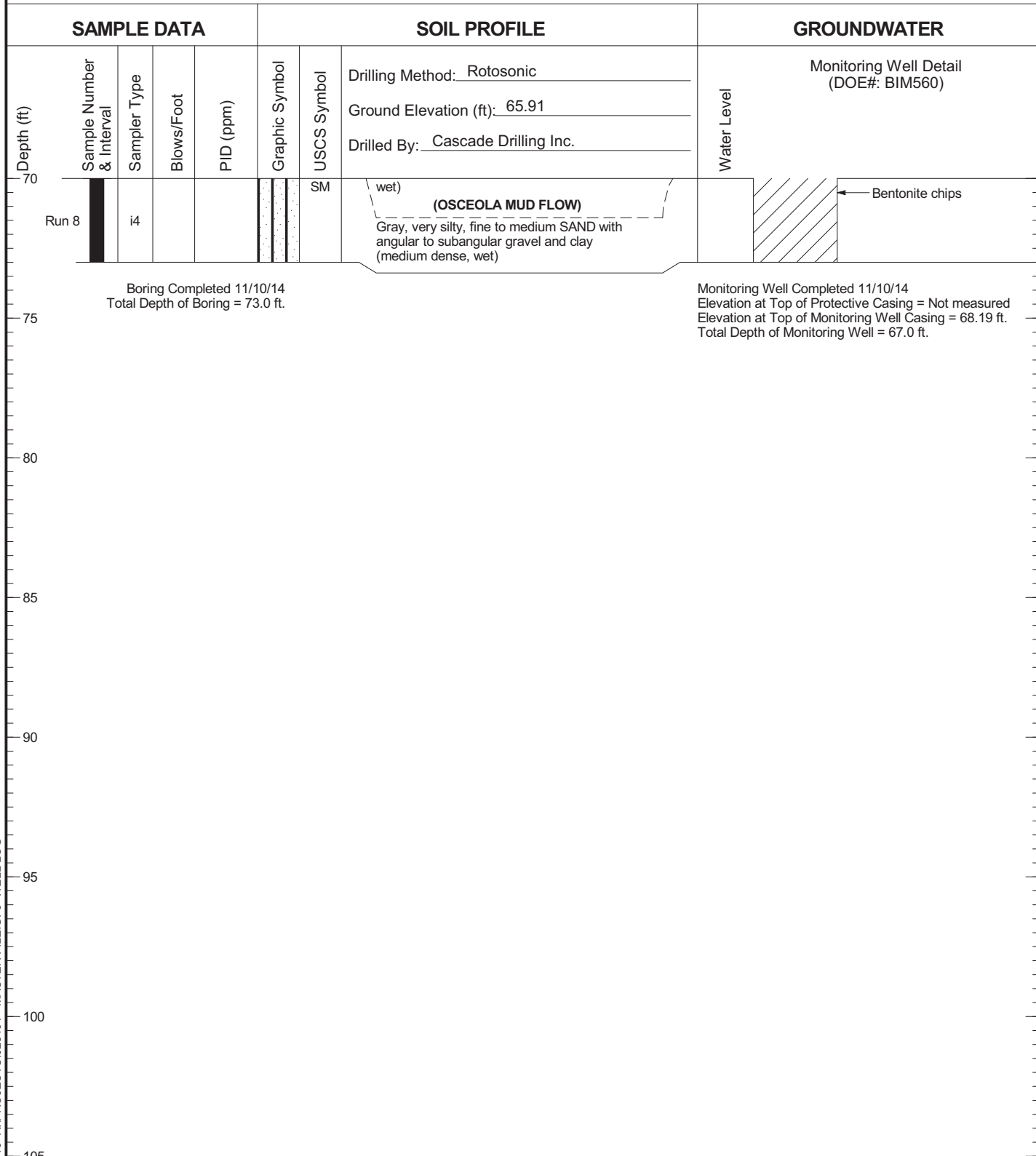


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW252

Figure  
C-221  
(2 of 3)

# AGW252



- 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. DOE Unique Well Number: BIM560

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

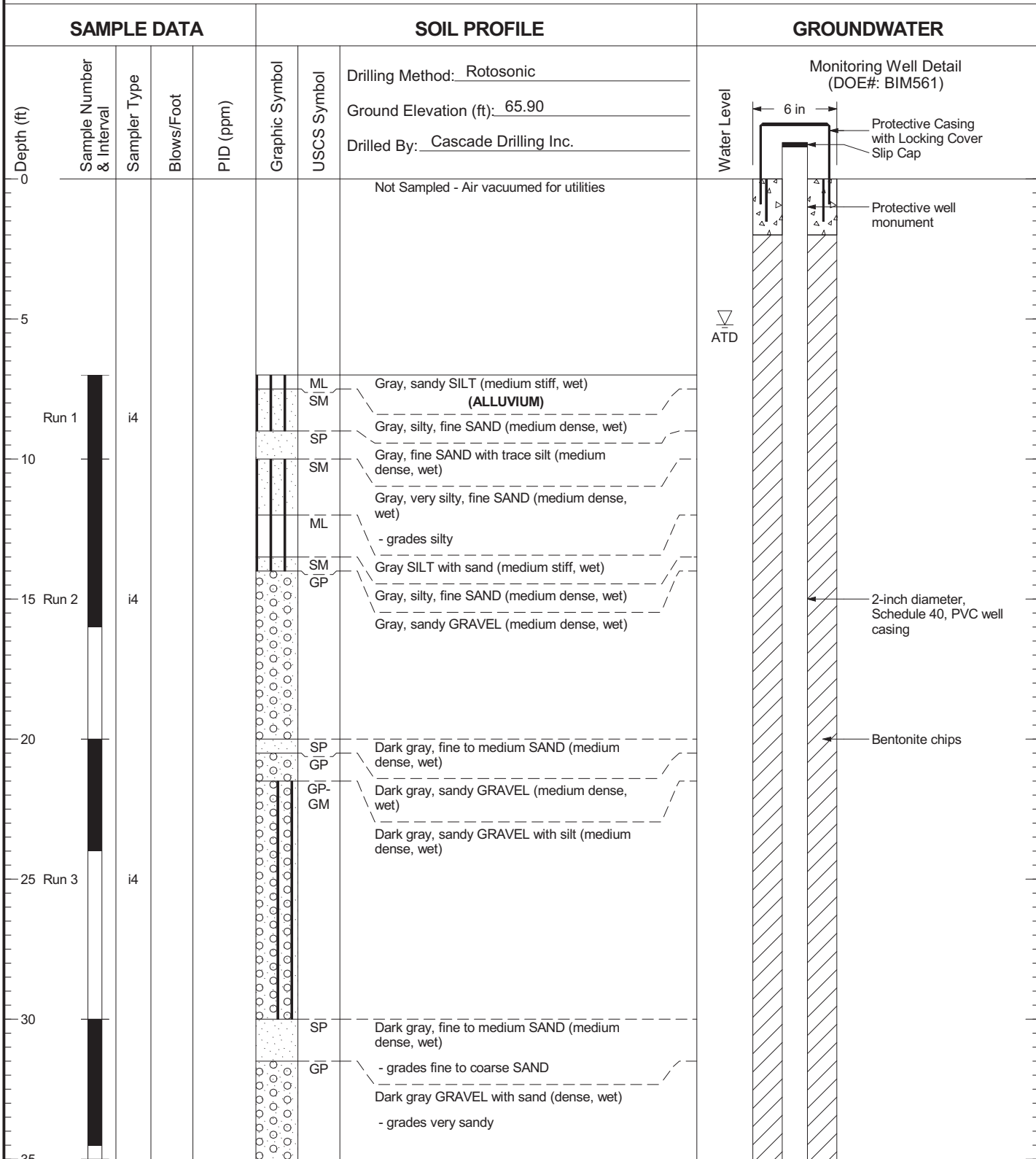


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW252

Figure  
C-221  
(3 of 3)

# AGW253



- 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. DOE Unique Well Number: BIM561

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

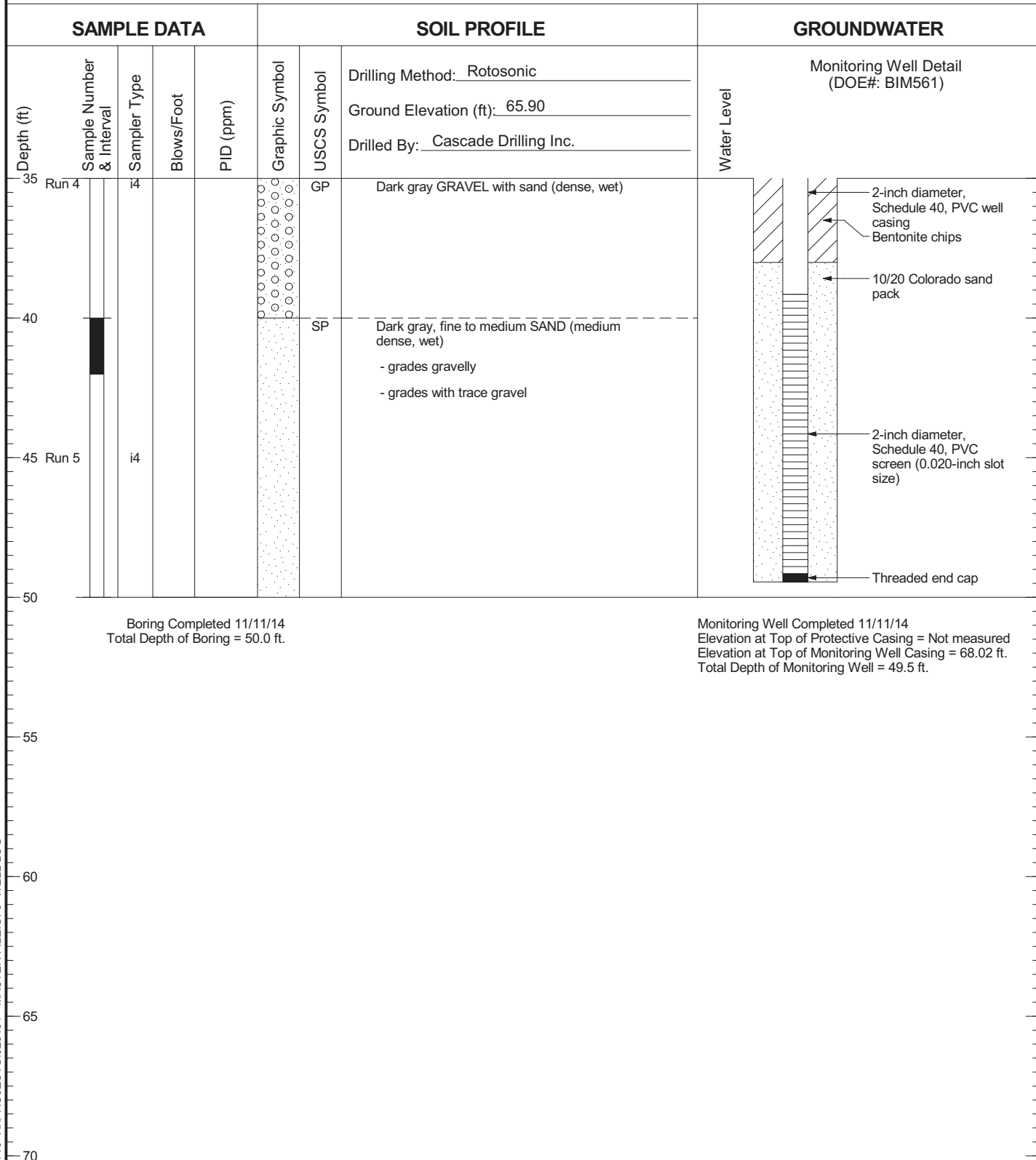


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW253

Figure  
C-222  
(1 of 2)

# AGW253



Boring Completed 11/11/14  
Total Depth of Boring = 50.0 ft.

Monitoring Well Completed 11/11/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 68.02 ft.  
Total Depth of Monitoring Well = 49.5 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.
  4. DOE Unique Well Number: BIM561

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



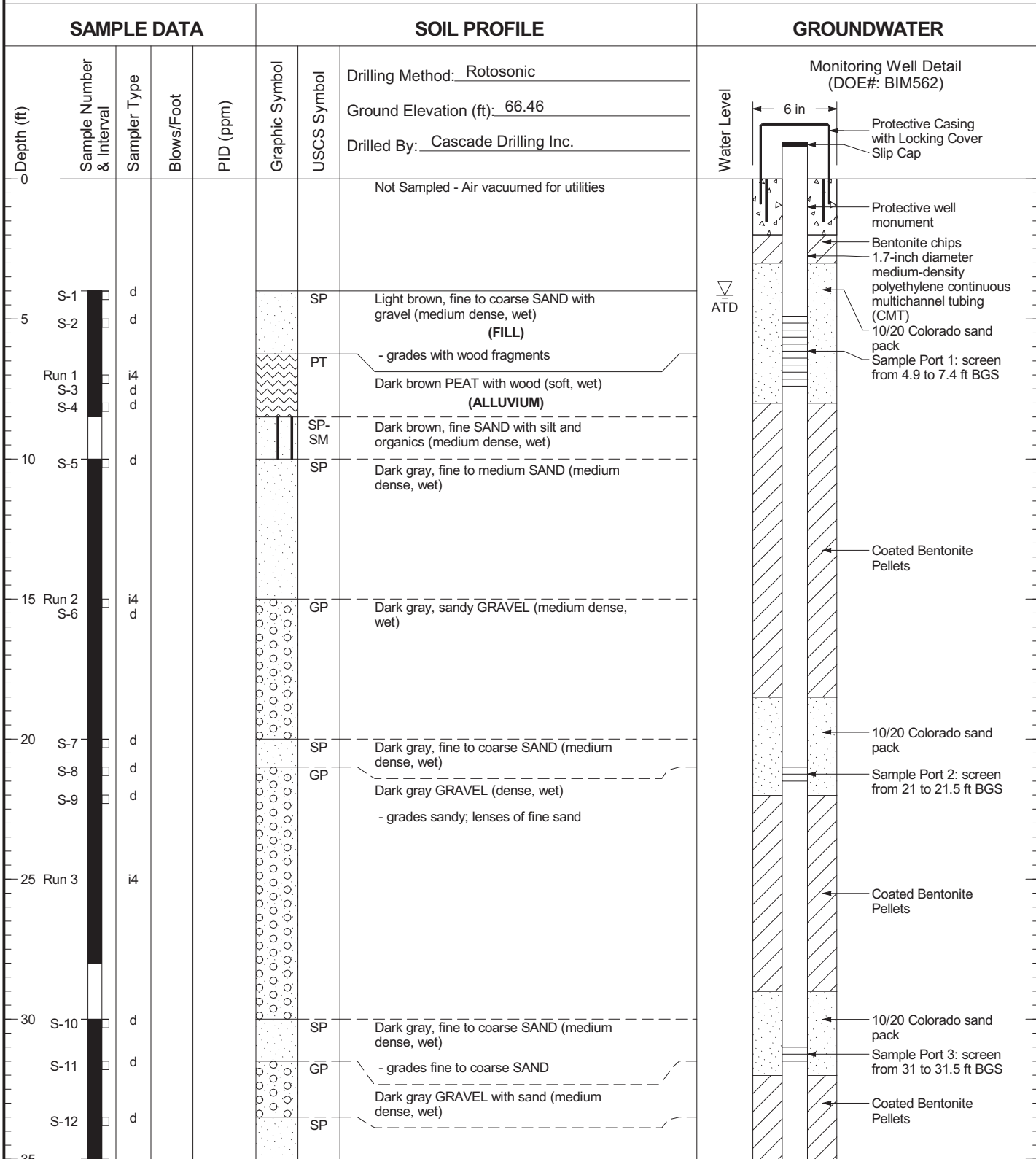
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

## Log of Monitoring Well AGW253

Figure  
**C-222**  
(2 of 2)



# AGW254



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

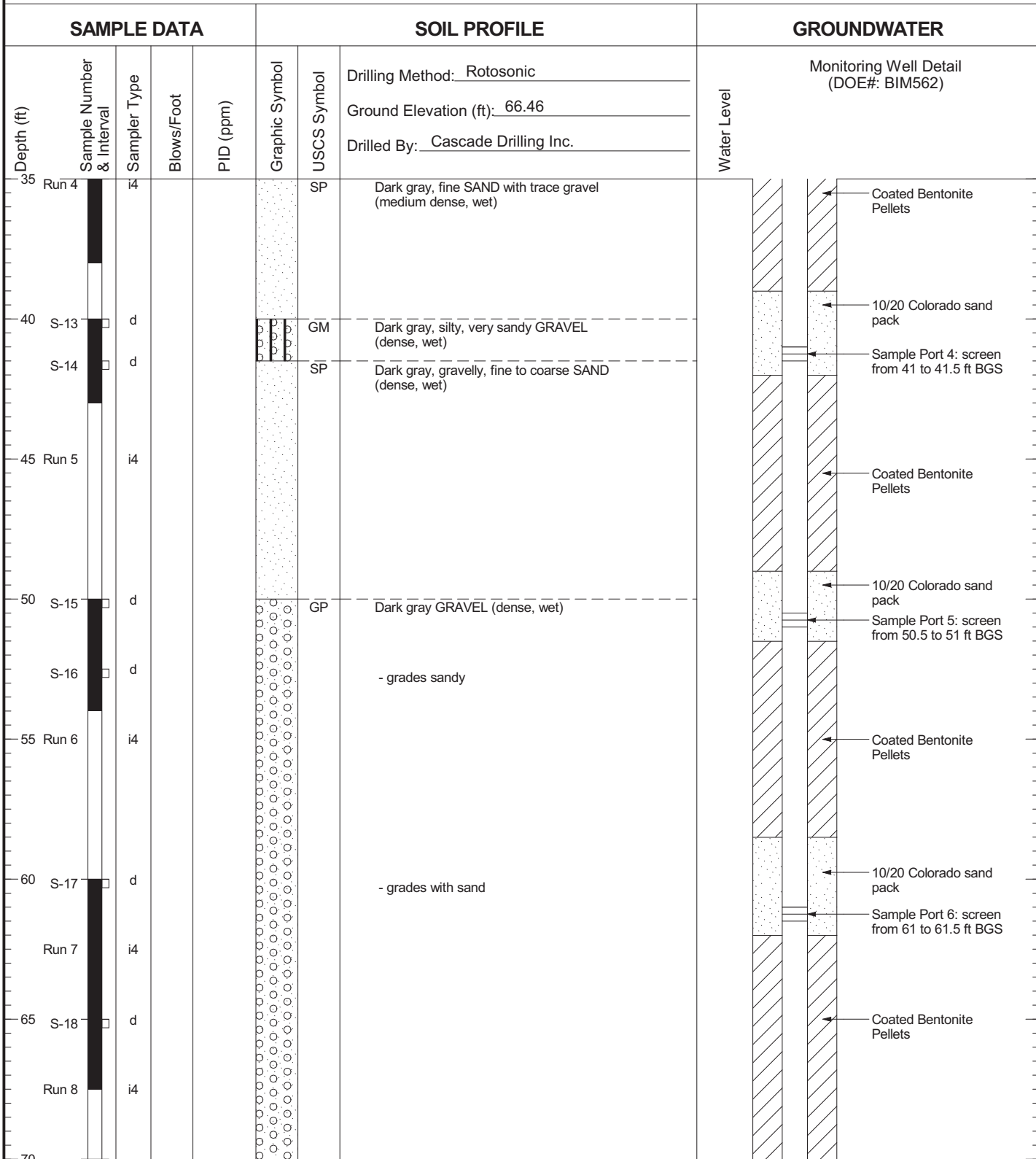


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW254

Figure  
C-223  
(1 of 3)

# AGW254



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW254

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BIM562)
	Ground Elevation (ft): <u>66.46</u>					Drilled By: <u>Cascade Drilling Inc.</u>			
	70	S-19 S-20	d			SP	Dark gray, fine to coarse SAND (dense, wet)		
	Run 9	i4							
75	S-21	d			GP	Dark gray, very sandy GRAVEL (dense, wet)			
	S-22	d			SP	Dark gray, fine to coarse SAND with gravel (dense, wet)			
Run 10	i4								
80	S-23	d			SM	Gray, clayey, silty, fine to coarse SAND with angular and subangular gravel (dense, wet) <b>(OSCEOLA MUD FLOW)</b>			
Run 11	i4								
85									

Boring Completed 11/12/14  
Total Depth of Boring = 85.0 ft.

Monitoring Well Completed 11/13/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 74.47 ft.  
Total Depth of Monitoring Well = 78.8 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

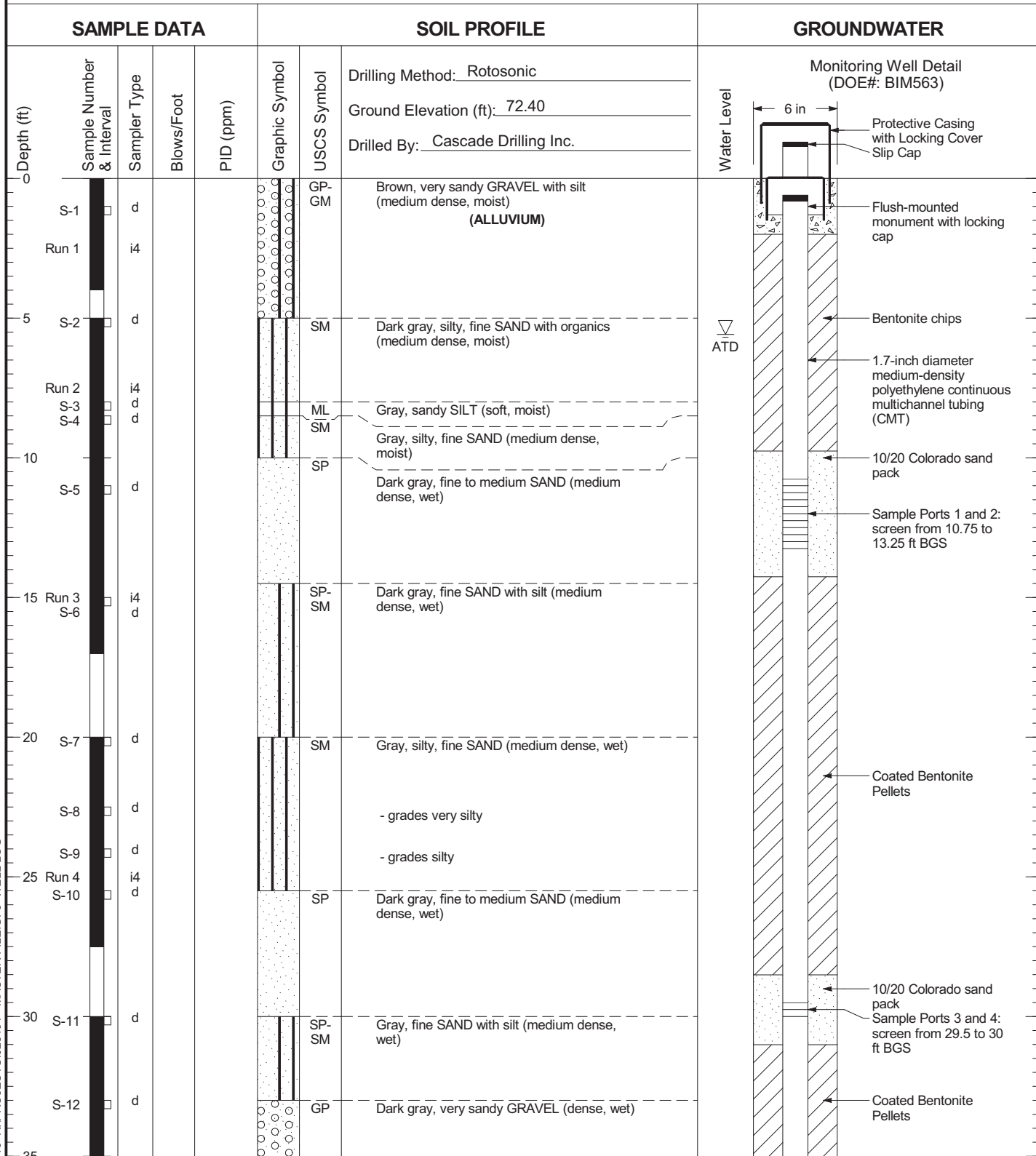


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW254

Figure  
C-223  
(3 of 3)

# AGW255



- 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. Tubing perforations in the channels are wrapped with 100 mesh screen.

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



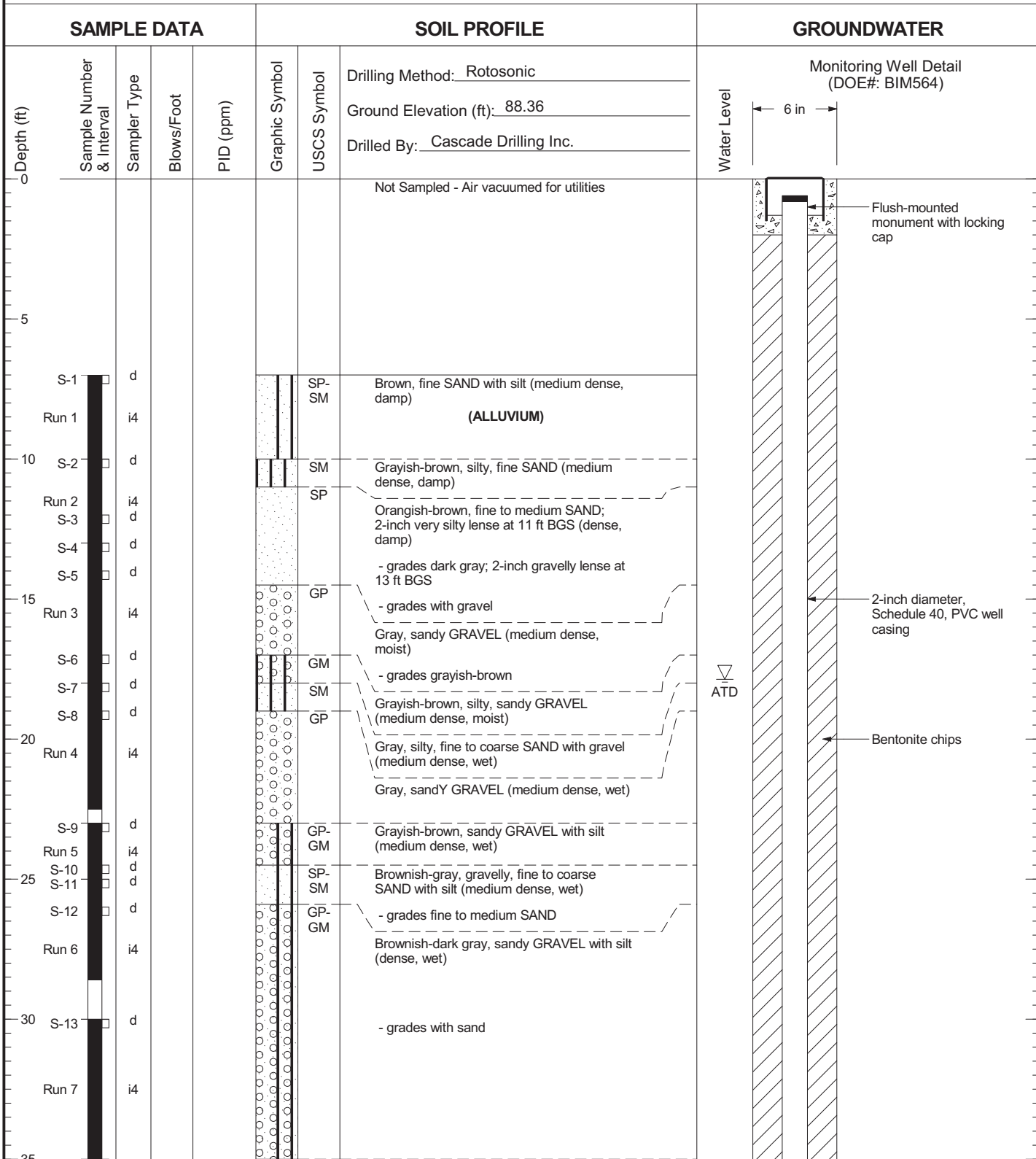
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Auburn, Washington

Log of Monitoring Well AGW255

Figure  
C-224  
(1 of 2)



# AGW256



- 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. DOE Unique Well Number: BIM564

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Auburn, Washington

Log of Monitoring Well AGW256

Figure  
C-225  
(1 of 2)

# AGW256

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>		Water Level	Monitoring Well Detail (DOE#: BIM564)
							Ground Elevation (ft): <u>88.36</u>			
35	S-14	d			SP		Dark gray, fine to medium SAND (medium dense, wet)			
40	S-15 Run 8	d i4			GP-GM		Brownish-gray GRAVEL with sand and silt (medium dense, wet)			2-inch diameter, Schedule 40, PVC well casing
					SP		Dark gray, fine to medium SAND (medium dense, wet)			
	S-16	d			SP-SM		Brownish-gray, fine to coarse SAND with gravel and silt (medium dense, wet)			
					GP		Brownish-gray GRAVEL with sand (dense, wet)			Bentonite chips
45	S-17	d			SP-SM / GP-GM		Brownish-gray, fine to coarse SAND with gravel and silt (medium dense, wet)			
					GP		Brownish-gray GRAVEL with sand (dense, wet)			
					GP-GM		Brownish-gray, fine to coarse SAND with gravel and silt (medium dense, wet)			
					GP-GM		Brown GRAVEL with sand and silt (dense, wet)			
					SP		Dark gray, fine to medium SAND (medium dense, wet)			10/20 Colorado sand pack
50	S-18 Run 9	d i4			SM		- grades with gravel			
	S-19	d			GP		Iron oxide mottled orange, black, and brown, very silty, fine SAND with gravel (medium dense, wet)			
	S-20	d			GP		Brownish-gray GRAVEL with sand (medium dense, wet)			
55	S-21	d			SP		Brownish-dark gray, fine to medium SAND (medium dense, wet)			2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)
	S-22 Run 10	d i4			SP		- grades to fine to coarse SAND with gravel			
60										Threaded end cap

Boring Completed 11/17/14  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 11/17/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 88.08 ft.  
Total Depth of Monitoring Well = 60.0 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. DOE Unique Well Number: BIM564

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

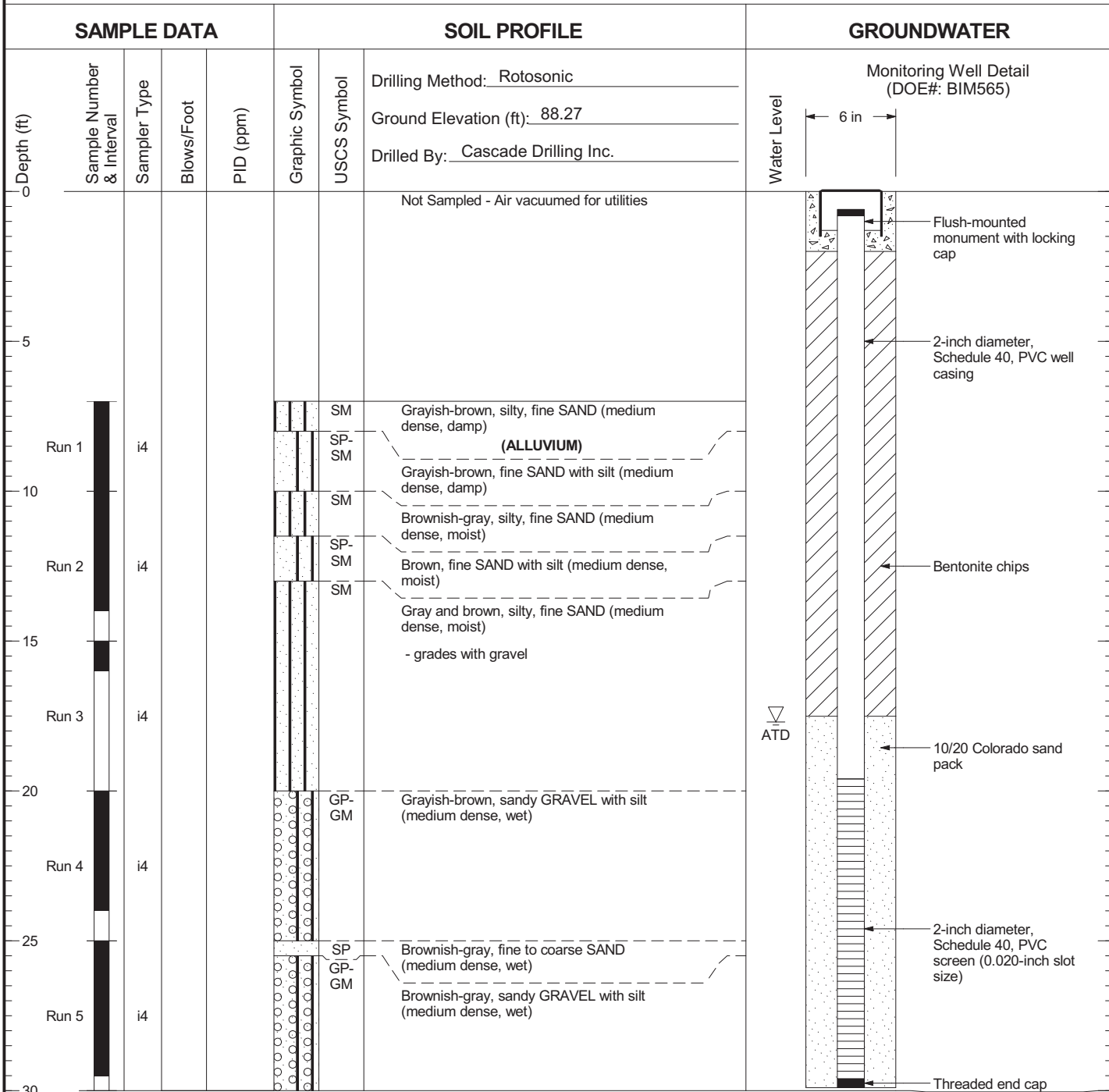


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Auburn, Washington

Log of Monitoring Well AGW256

Figure  
C-225  
(2 of 2)

# AGW257



Boring Completed 11/17/14  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 11/17/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 87.86 ft.  
Total Depth of Monitoring Well = 29.9 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. DOE Unique Well Number: BIM565

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



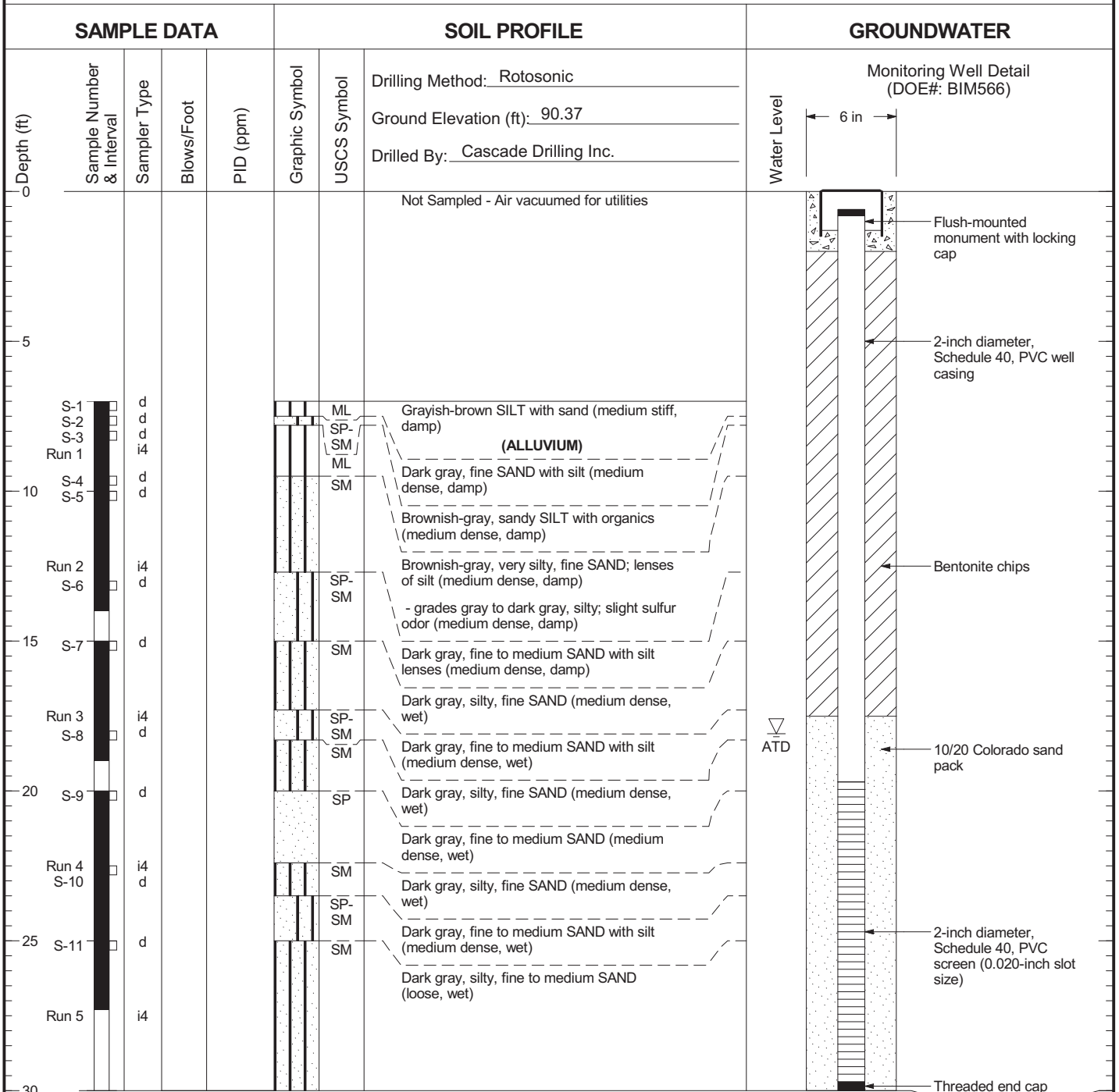
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Auburn, Washington

Log of Monitoring Well AGW257

Figure  
C-226



# AGW258



Boring Completed 11/18/14  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 11/18/14  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 90.25 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BIM566

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Log of Monitoring Well AGW258

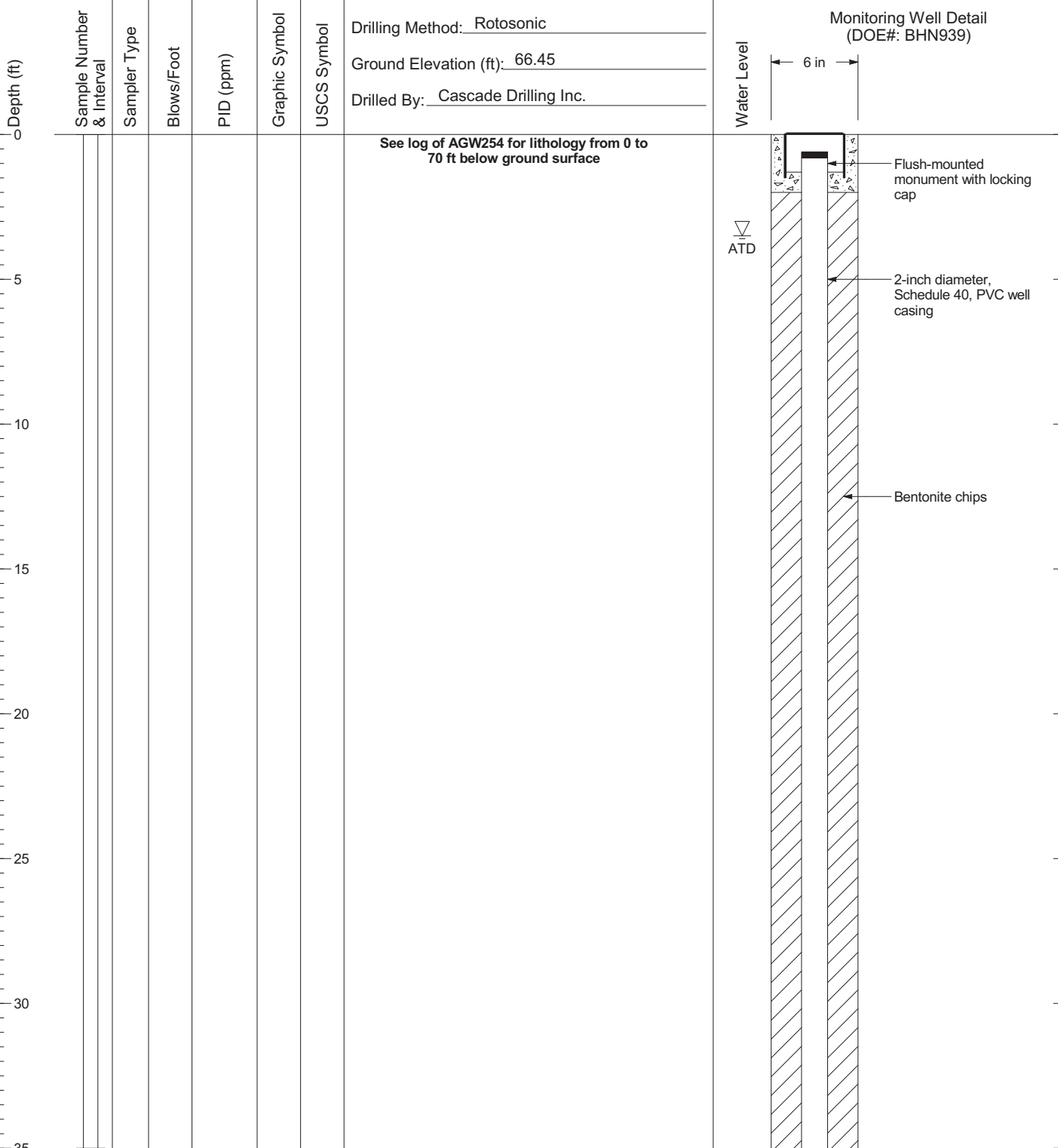
Figure  
C-227

# AGW259

## 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. DOE Unique Well Number: BHN939

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Log of Monitoring Well AGW259

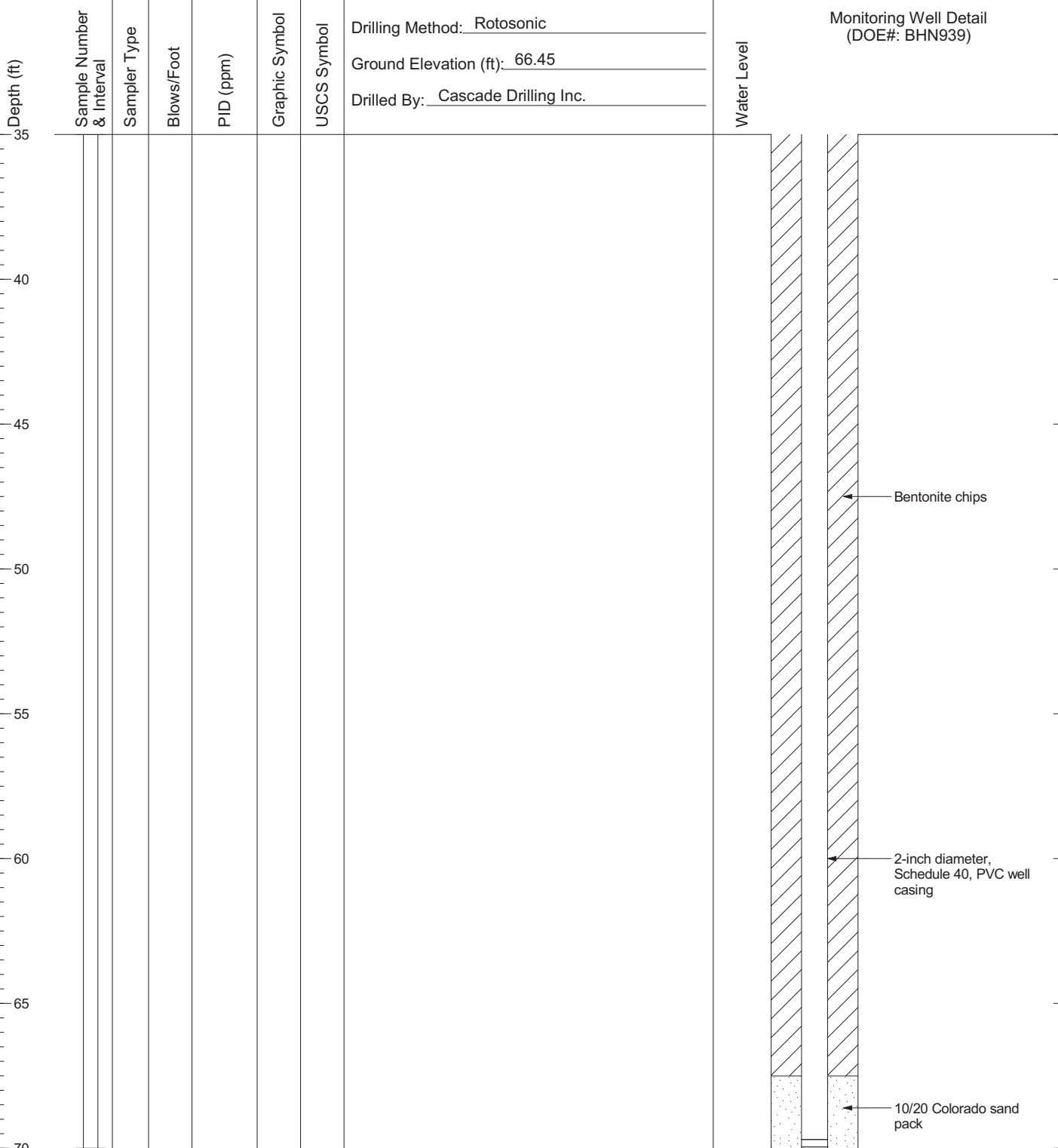
Figure  
C-228  
(1 of 3)

# AGW259

## 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. DOE Unique Well Number: BHN939

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

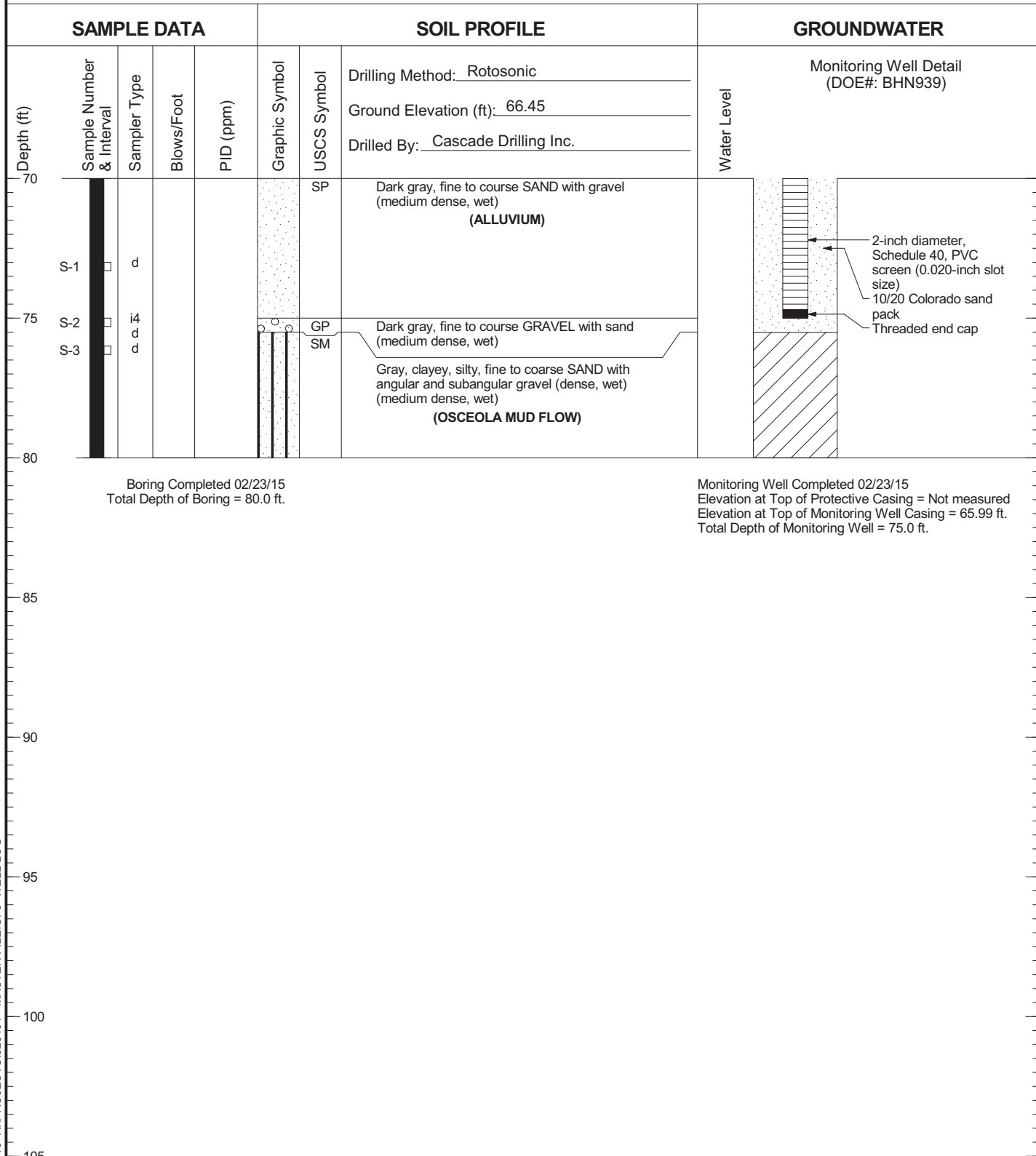


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Log of Monitoring Well AGW259

Figure  
C-228  
(2 of 3)

# AGW259



Boring Completed 02/23/15  
Total Depth of Boring = 80.0 ft.

Monitoring Well Completed 02/23/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 65.99 ft.  
Total Depth of Monitoring Well = 75.0 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. DOE Unique Well Number: BHN939

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW259

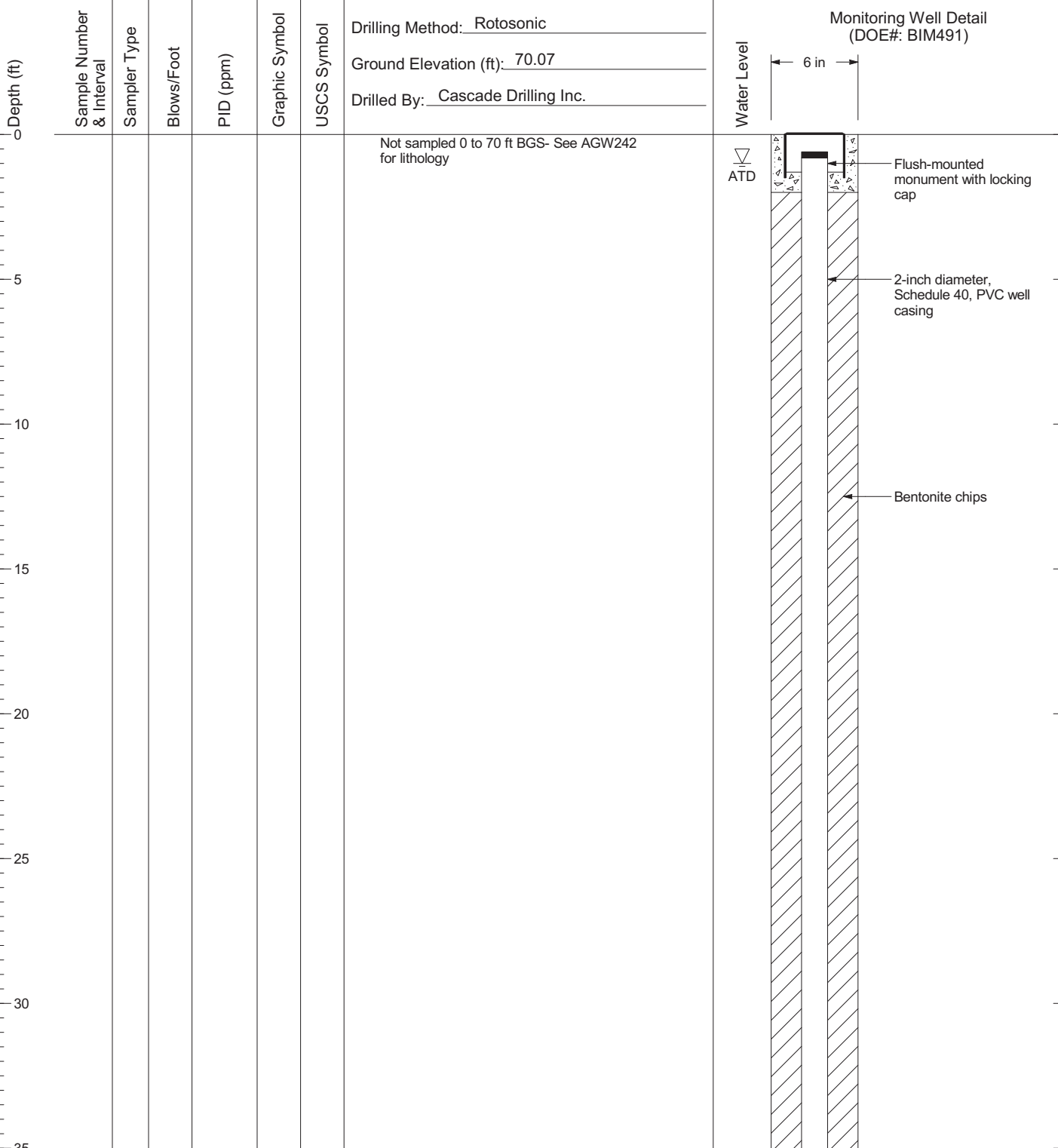
Figure  
C-228  
(3 of 3)

# AGW260

## 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. DOE Unique Well Number: BIM491

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW260

Figure  
C-229  
(1 of 3)

# AGW260

SAMPLE DATA				SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BIM491)
							Ground Elevation (ft): <u>70.07</u>		
							Drilled By: <u>Cascade Drilling Inc.</u>		
35							Not sampled 0 to 70 ft BGS- See AGW242 for lithology		
40									
45									2-inch diameter, Schedule 40, PVC well casing
50									
55									Bentonite chips
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. DOE Unique Well Number: BIM491

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

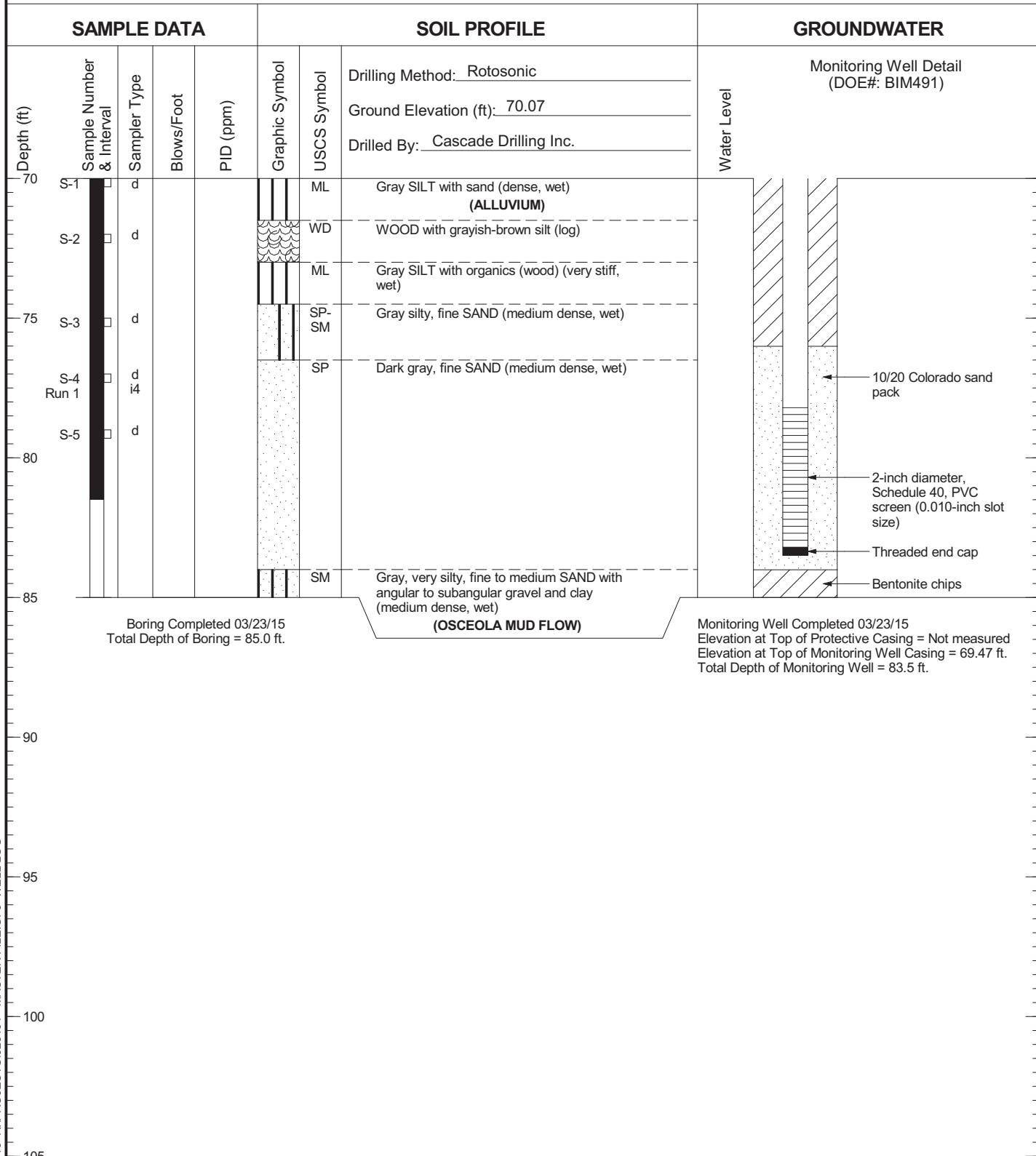


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW260

Figure  
C-229  
(2 of 3)

# AGW260



- 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. DOE Unique Well Number: BIM491

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

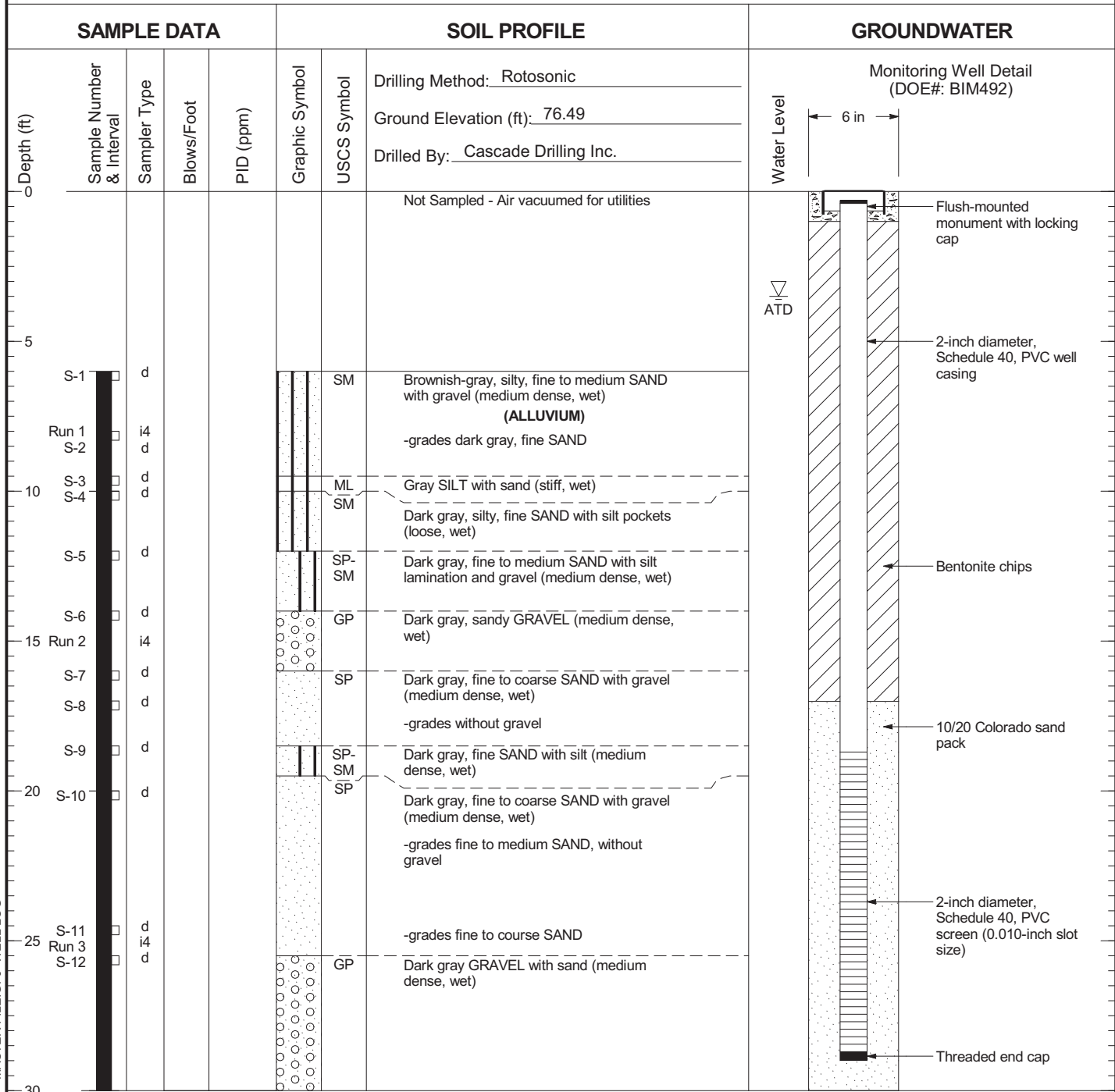


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW260

Figure  
C-229  
(3 of 3)

# AGW261



Boring Completed 03/24/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 03/24/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.04 ft.  
Total Depth of Monitoring Well = 29.0 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. DOE Unique Well Number: BIM492

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



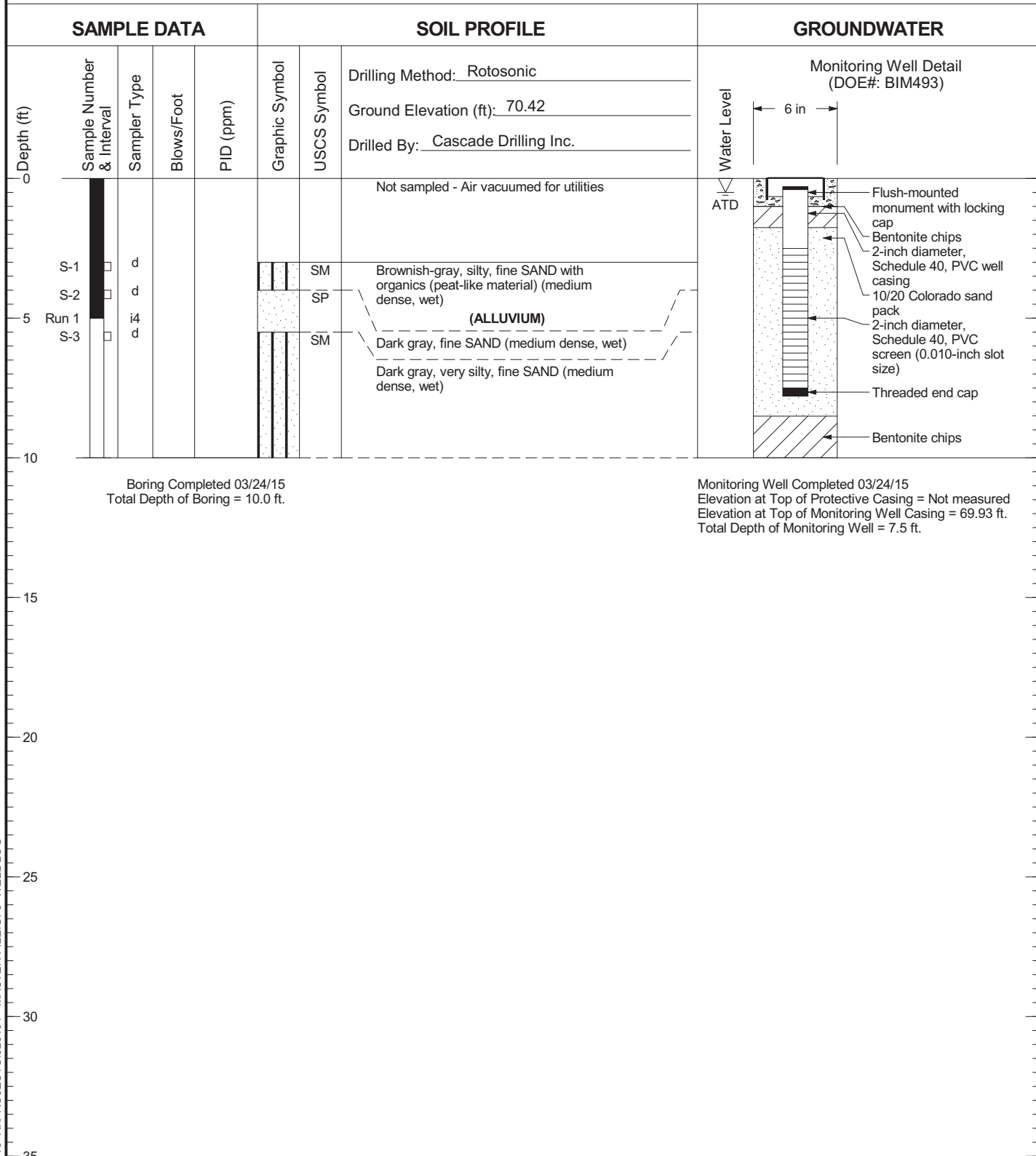
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW261

Figure  
C-230



# AGW262



Boring Completed 03/24/15  
Total Depth of Boring = 10.0 ft.

Monitoring Well Completed 03/24/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 69.93 ft.  
Total Depth of Monitoring Well = 7.5 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.
  4. DOE Unique Well Number: BIM493

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

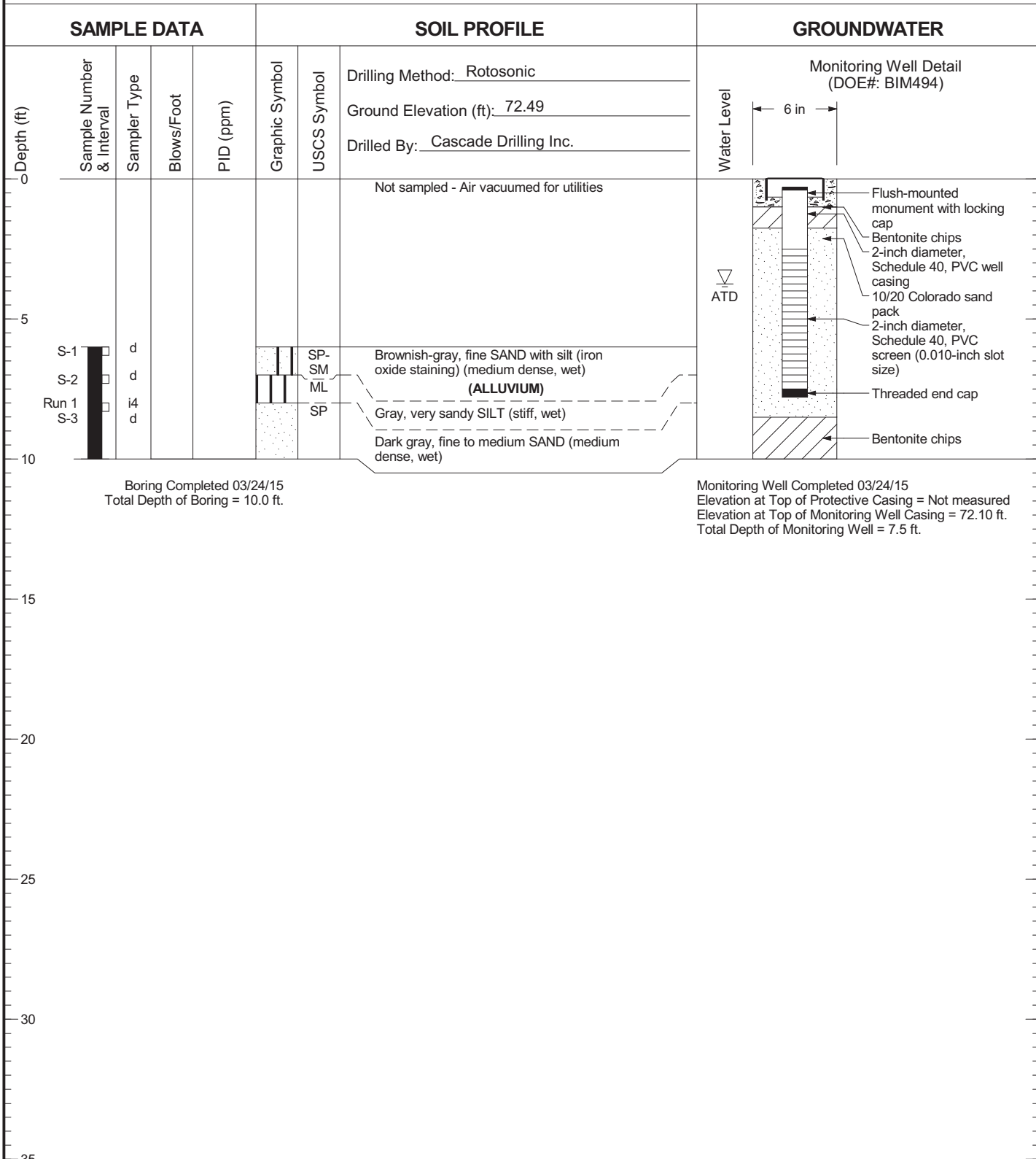


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW262

Figure  
C-231

# AGW263



Boring Completed 03/24/15  
Total Depth of Boring = 10.0 ft.

Monitoring Well Completed 03/24/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.10 ft.  
Total Depth of Monitoring Well = 7.5 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.
  4. DOE Unique Well Number: BIM494

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

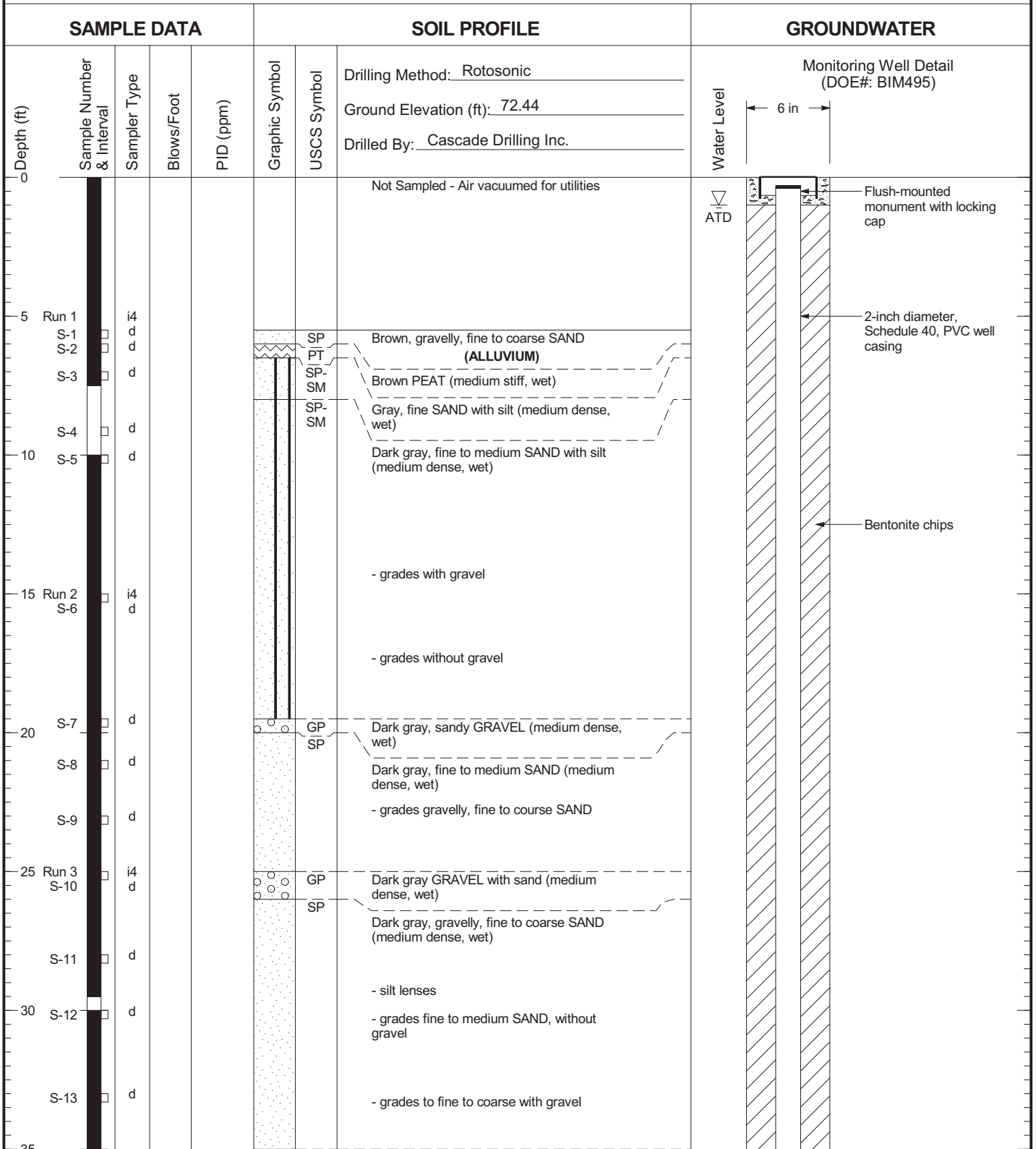


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Auburn, Washington

Log of Monitoring Well AGW263

Figure  
C-232

# AGW264



- 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. DOE Unique Well Number: BIM495

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Log of Monitoring Well AGW264

Figure  
C-233  
(1 of 3)

# AGW264

SAMPLE DATA		SOIL PROFILE				GROUNDWATER				
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Description	Water Level	Monitoring Well Detail (DOE#: BIM495)	
Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>72.44</u> Drilled By: <u>Cascade Drilling Inc.</u>										
35	Run 4 S-14	i4 d				GP	Dark gray GRAVEL with sand (medium dense, wet)			
40	S-15	d				GP	Dark gray GRAVEL with sand (medium dense, wet)			
45	Run 5 S-16 S-17	i4 d d				ML	Brownish-gray SILT with sand and organics (medium stiff, wet)			
	S-18	d				SP	Dark gray, fine to medium SAND (medium dense, wet)			
	S-19 S-20	d d				ML	Greenish-gray SILT with sand (medium stiff, wet)			
						SM	Gray, silty, fine SAND (medium dense, wet)			
55	Run 6 S-21	i4 d				GP	Dark gray, sandy GRAVEL (medium dense, wet)			
60	S-22	d				SP	Dark gray, fine to medium SAND (medium dense, wet)			
	S-23	d				GP	Dark gray GRAVEL (medium dense, wet)			
	S-24	d				SP	Dark gray, gravelly, fine to coarse SAND (medium dense, wet)			
65	Run 7 S-25	i4 d				SM	- grades fine to medium SAND, without gravel			
	S-26	d				SM	Gray, very silty, fine SAND			
						SP	Dark gray, fine SAND			
70						SM				

- 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. DOE Unique Well Number: BIM495

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW264

Figure  
C-233  
(2 of 3)

# AGW264

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>72.44</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: BIM495)
	70	S-27	d		[Symbol]	SM	Dark gray, silty, fine SAND (medium dense, wet)  - silty lense  - sandy lense		
75	Run 8	i4			[Symbol]	ML	Dark gray SILT with organics (wood, organic odor) (stiff, wet)		
80	S-28	d			[Symbol]	SM	Gray, very silty, fine to medium SAND with angular to subangular gravel and clay (medium dense, wet) <b>(OSCEOLA MUD FLOW)</b>		
85	Run 9	i4			[Symbol]				Bentonite chips
90	Boring Completed 03/25/15 Total Depth of Boring = 90.0 ft.						Monitoring Well Completed 03/25/15 Elevation at Top of Protective Casing = Not measured Elevation at Top of Monitoring Well Casing = 71.89 ft. Total Depth of Monitoring Well = 78.0 ft.		
95									
100									
105									

- 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. DOE Unique Well Number: BIM495

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW264

Figure  
C-233  
(3 of 3)

# AGW265

SAMPLE DATA				SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	<div style="text-align: center;"> <b>Monitoring Well Detail</b>                      (DOE#: BIM496)                 </div>
							Ground Elevation (ft): <u>72.51</u>	
							Drilled By: <u>Cascade Drilling Inc.</u>	
0							Not sampled- See AGW264 for lithology	
5								
10								
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. **DOE Unique Well Number: BIM496**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



# AGW265

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Ground Elevation (ft): <u>72.51</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: BIM496)
35							Not sampled- See AGW264 for lithology				<p style="font-size: small;">Monitoring Well Detail (DOE#: BIM496)</p> <ul style="list-style-type: none"> <li>→ Bentonite chips</li> <li>→ 2-inch diameter, Schedule 40, PVC well casing</li> <li>→ 10/20 Colorado sand pack</li> <li>→ 2-inch diameter, Schedule 40, PVC screen (0.010-inch slot size)</li> <li>→ Threaded end cap</li> </ul>
40											
45											
50											
55											
60											
65											
70											

Boring Completed 03/26/15  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 03/26/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 71.97 ft.  
Total Depth of Monitoring Well = 59.0 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. DOE Unique Well Number: BIM496

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

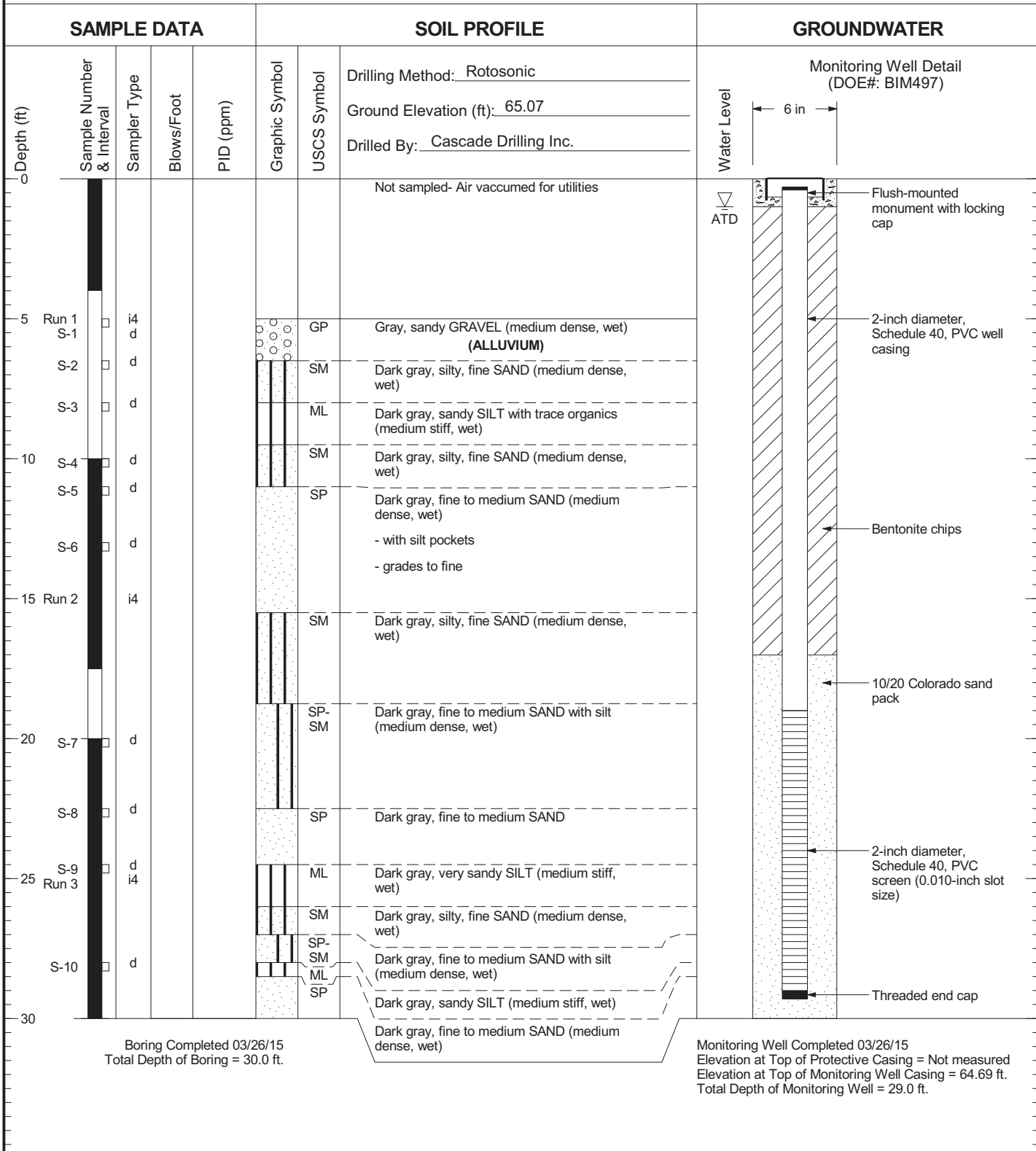


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Auburn, Washington

### Log of Monitoring Well AGW265

Figure  
C-234  
(2 of 2)

# AGW266



- 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. DOE Unique Well Number: BIM497

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



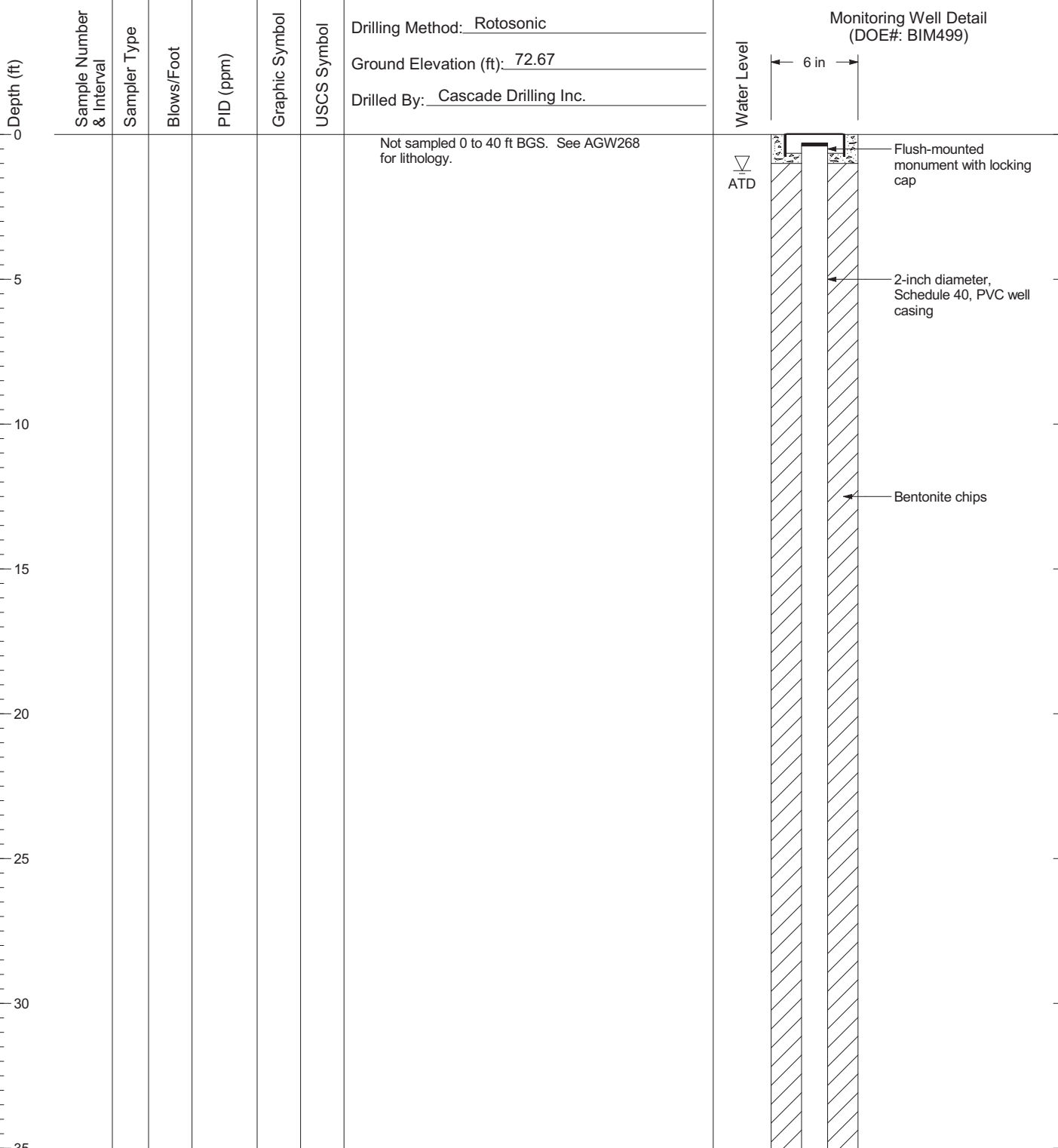


# AGW267

## 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. DOE Unique Well Number: BIM499

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

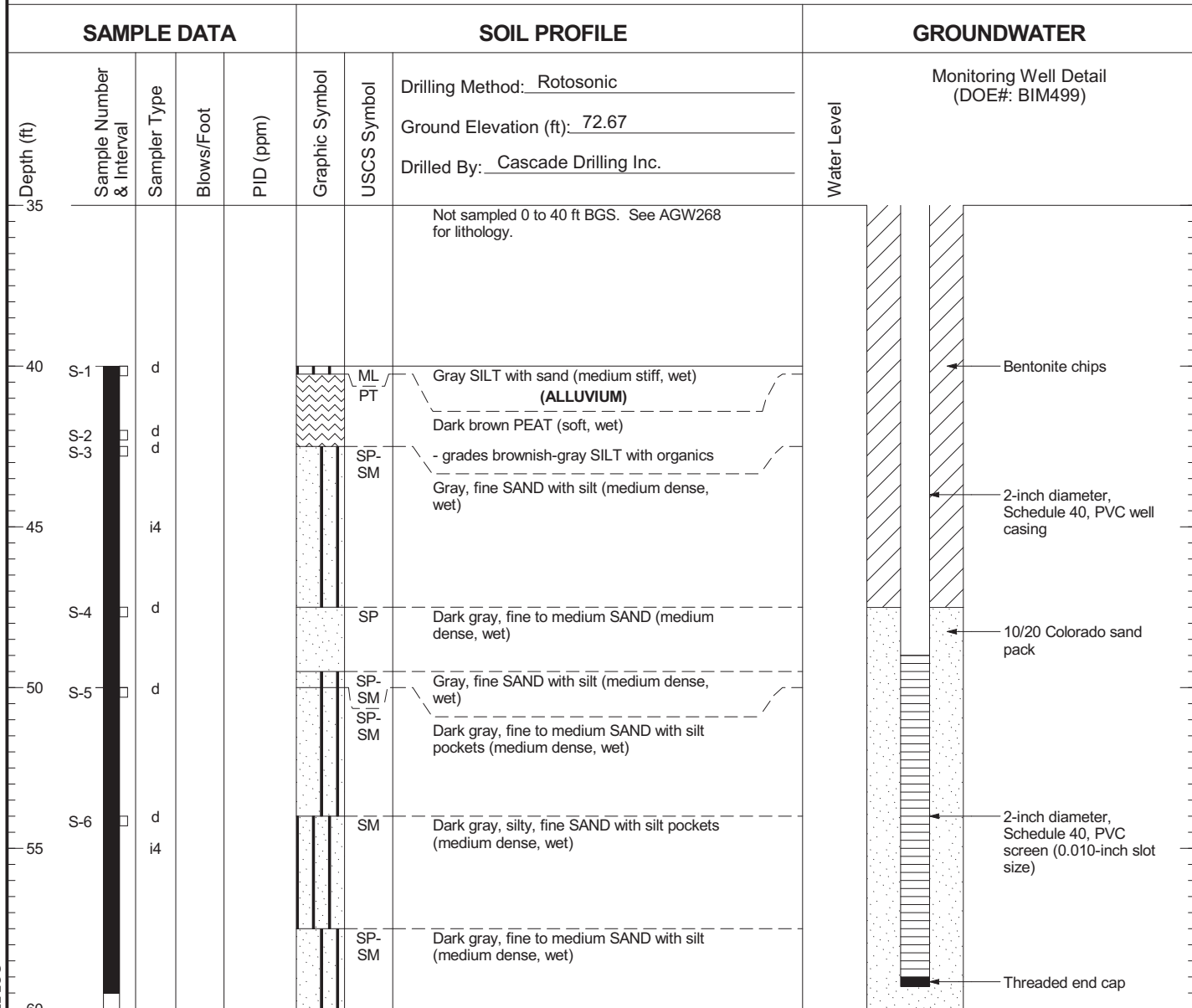


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW267

Figure  
C-236  
(1 of 2)

# AGW267



Boring Completed 03/27/15  
Total Depth of Boring = 60.0 ft.

Monitoring Well Completed 03/27/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 72.17 ft.  
Total Depth of Monitoring Well = 59.0 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. DOE Unique Well Number: BIM499

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW267

Figure  
C-236  
(2 of 2)

# AGW268

SAMPLE DATA				SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	
									Ground Elevation (ft): <u>72.77</u>
							Drilled By: <u>Cascade Drilling Inc.</u>	Monitoring Well Detail (DOE#: BIM500)	
0	Not sampled - Air vacuumed for utilities							ATD	6 in
5	S-1	d			[Symbol]	SP-SM	Gray, fine SAND (medium dense, wet) <b>(ALLUVIUM)</b>	Flush-mounted monument with locking cap	
10	S-2	d			[Symbol]	SM	Gray, very silty, fine SAND (medium dense, wet)	2-inch diameter, Schedule 40, PVC well casing	
10	Run 1 S-3	i4 d			[Symbol]		- grades very silty	Bentonite chips	
15	S-4	d			[Symbol]	SP	Dark gray, fine to medium SAND (medium dense, wet)		
15	Run 2 S-5	i4 d			[Symbol]	SP-SM	Gray, fine SAND with silt (medium dense, wet)		
20	S-6	d			[Symbol]	SM	Gray, silty, fine SAND (medium dense, wet)		
20	S-7	d			[Symbol]	ML	Gray, sandy SILT (medium stiff, wet)		
25	S-8	d			[Symbol]	SP	Dark gray, fine to coarse SAND (medium dense, wet)		
25	Run 3 S-9	i4 d			[Symbol]		- grades with silt		
30	S-10	d			[Symbol]	ML	Brownish-gray, sandy SILT with interspersed organics (medium stiff, wet)		
30	S-11	d			[Symbol]	SM	Gray, silty, fine SAND (loose, wet)		
35	S-11	d			[Symbol]	SP-SM	Dark gray, fine SAND with silt and interspersed organics (wood) (medium dense, wet)		

- 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. DOE Unique Well Number: BIM500

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW268

Figure  
C-237  
(1 of 3)

# AGW268

SAMPLE DATA			SOIL PROFILE				GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u>	Water Level	Monitoring Well Detail (DOE#: BIM500)
							Ground Elevation (ft): <u>72.77</u>		
							Drilled By: <u>Cascade Drilling Inc.</u>		
35	Run 4	i4							
	S-12	d				SP	Dark gray, fine SAND (medium dense, wet)		
40	S-13	d				ML	Brownish-gray SILT with organics (peat) (medium stiff, wet)		← Bentonite chips
	S-14	d				SM	Gray, silty, fine SAND (medium dense, wet)		
45	Run 5	i4							
	S-15	d					- grades dark gray, fine to medium SAND		← 2-inch diameter, Schedule 40, PVC well casing
	S-16	d				SP	Dark gray, fine to medium SAND (medium dense, wet)		
	S-17	d				ML	Gray SILT with sand and gravel (medium stiff, wet)		
	S-18	d					- grades without sand and gravel - grades sandy		
55	Run 6	i4							
	S-19	d				SP	Gray, fine SAND with silt (medium dense, wet)		
	S-20	d				ML	Gray SILT (medium stiff, wet)		
	S-21	d				SM	Dark gray, silty, fine SAND (medium dense, wet)		← 10/20 Colorado sand pack
65	Run 7	i4							
	S-22	d				ML	Greenish-gray SILT (medium stiff, wet)		
						SM	Gray, silty, fine SAND (medium dense, wet)		← 2-inch diameter, Schedule 40, PVC screen (0.010-inch slot size)
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. DOE Unique Well Number: BIM500

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

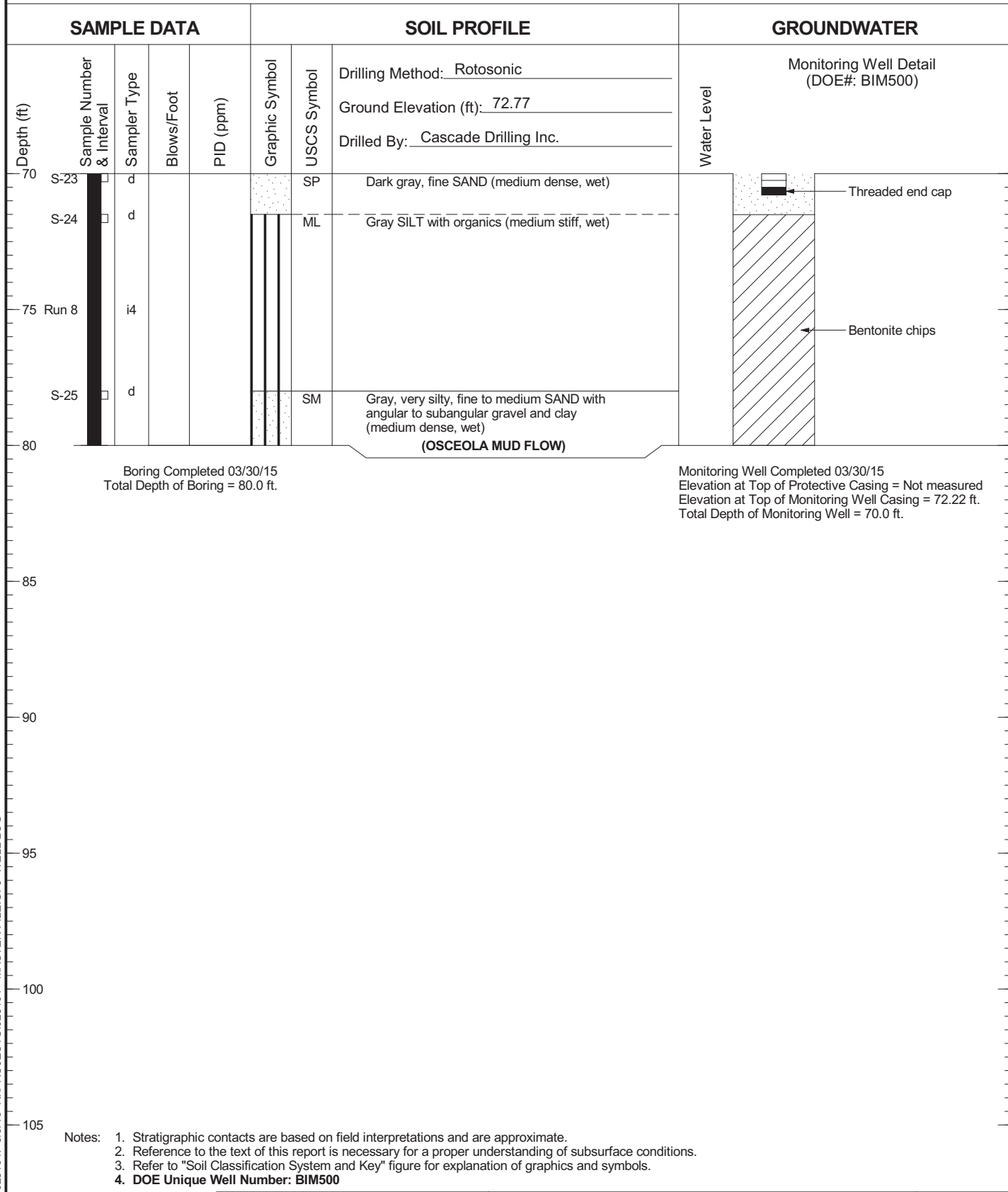


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Log of Monitoring Well AGW268

Figure  
C-237  
(2 of 3)

# AGW268



- 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. DOE Unique Well Number: BIM500

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

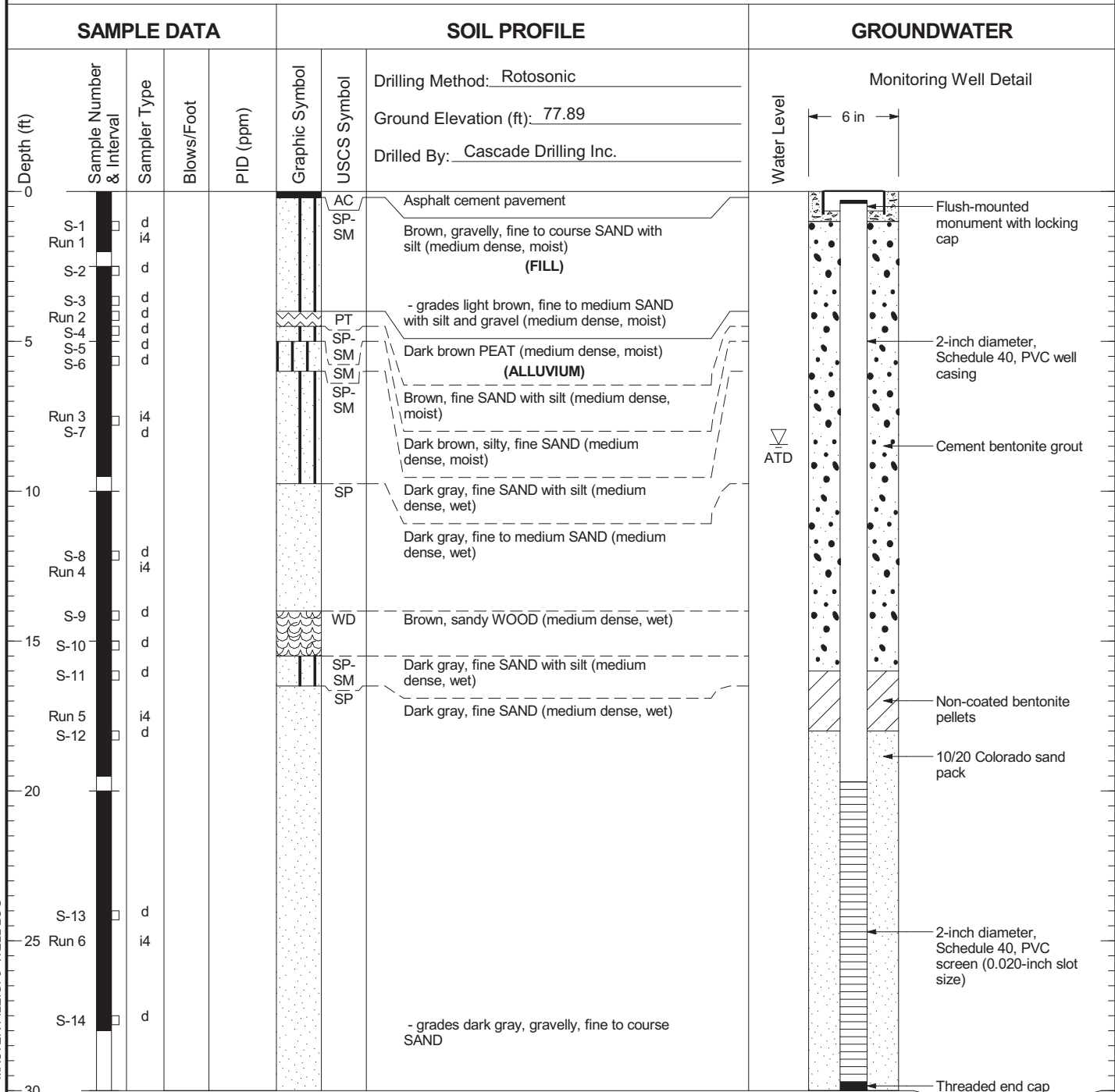


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Log of Monitoring Well AGW268

Figure  
C-237  
(3 of 3)

# AGW269



Boring Completed 07/30/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 07/30/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.54 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number:

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

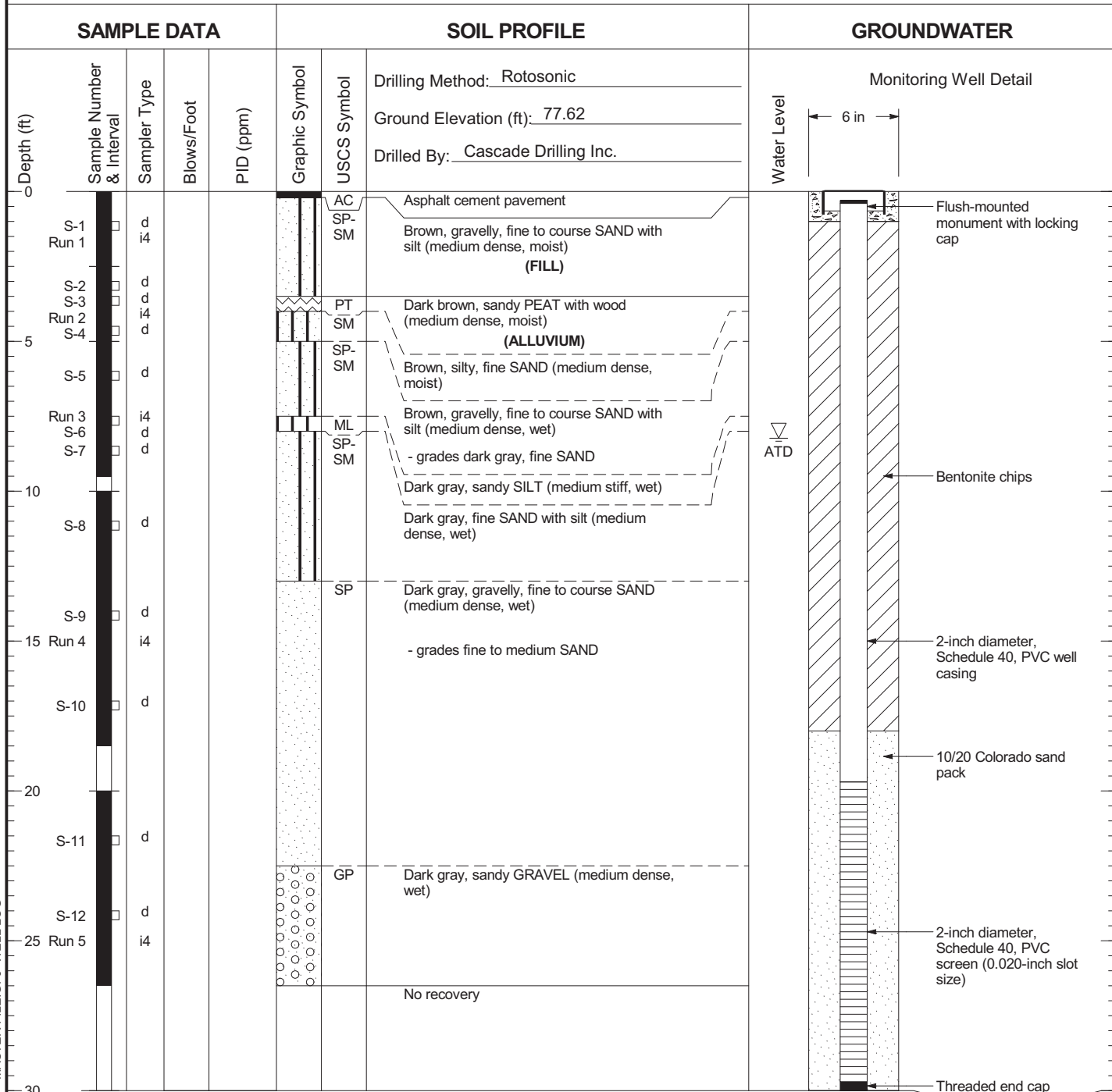


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Log of Monitoring Well AGW269

Figure  
C-238

# AGW270



Boring Completed 07/30/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 07/30/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 77.18 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number:

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

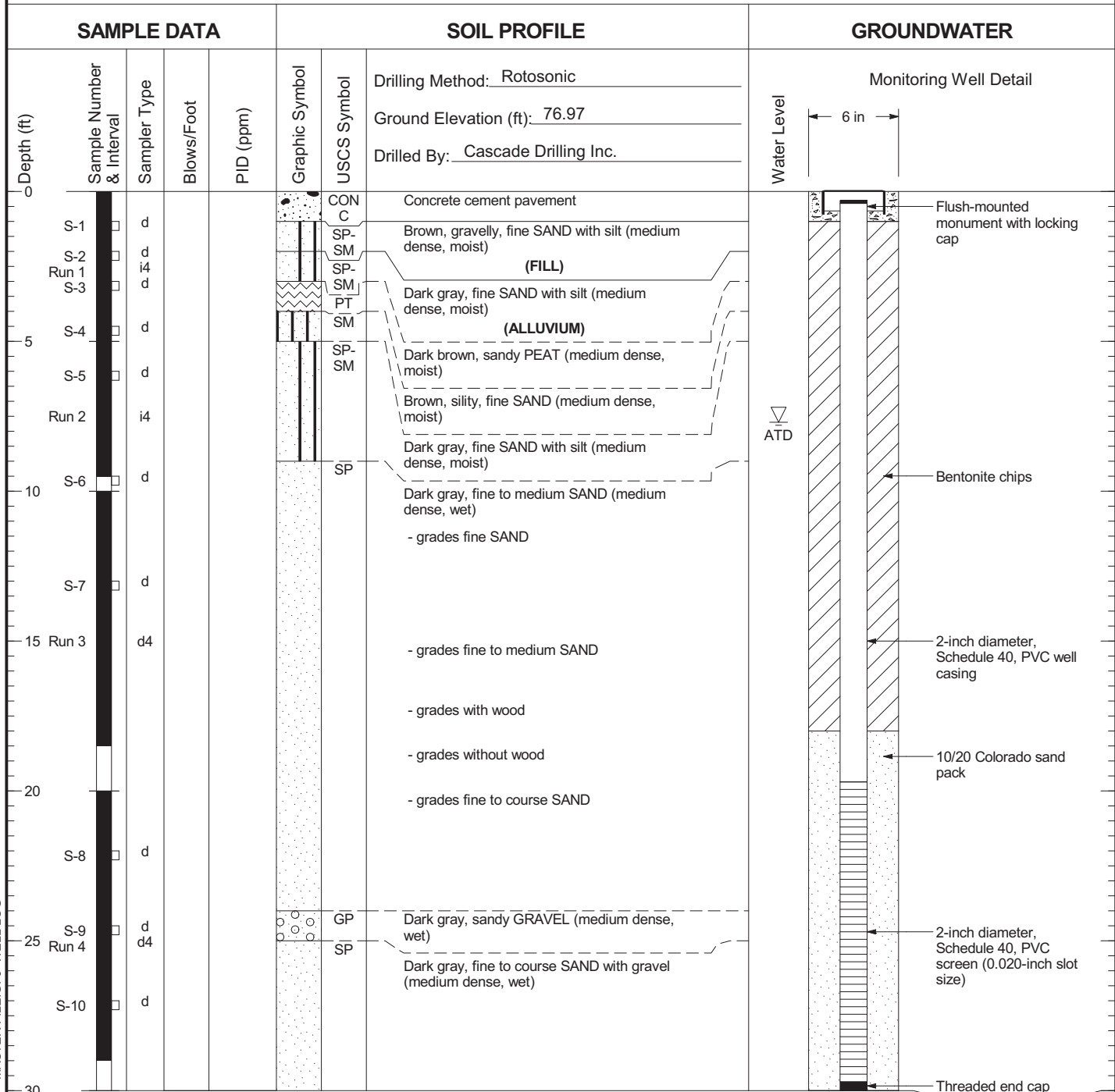


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Log of Monitoring Well AGW270

Figure  
C-239

# AGW271



Boring Completed 07/31/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 07/31/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.59 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number:

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



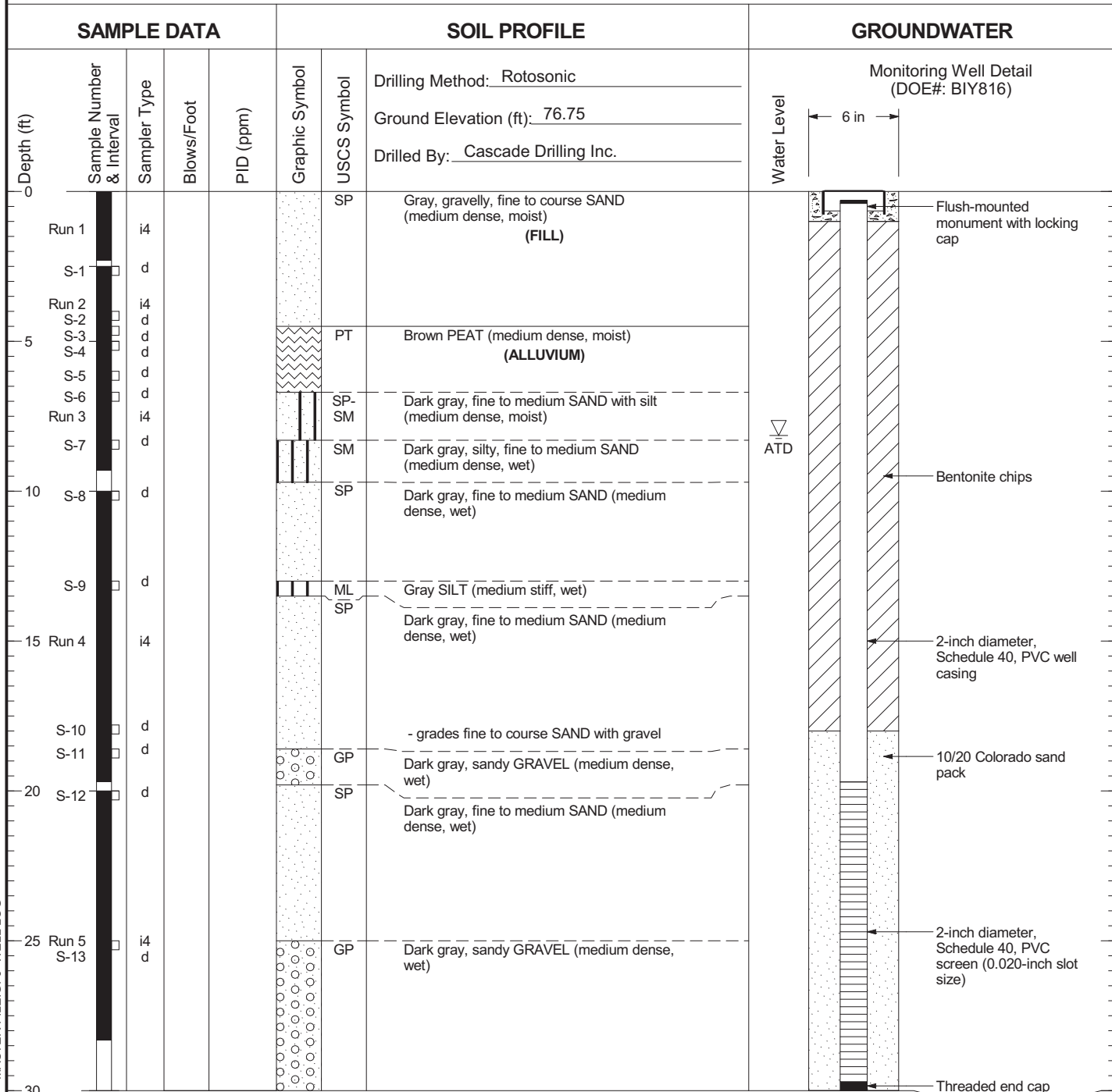
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Log of Monitoring Well AGW271

Figure  
C-240



# AGW272



Boring Completed 08/03/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 08/03/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.32 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BIY816

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

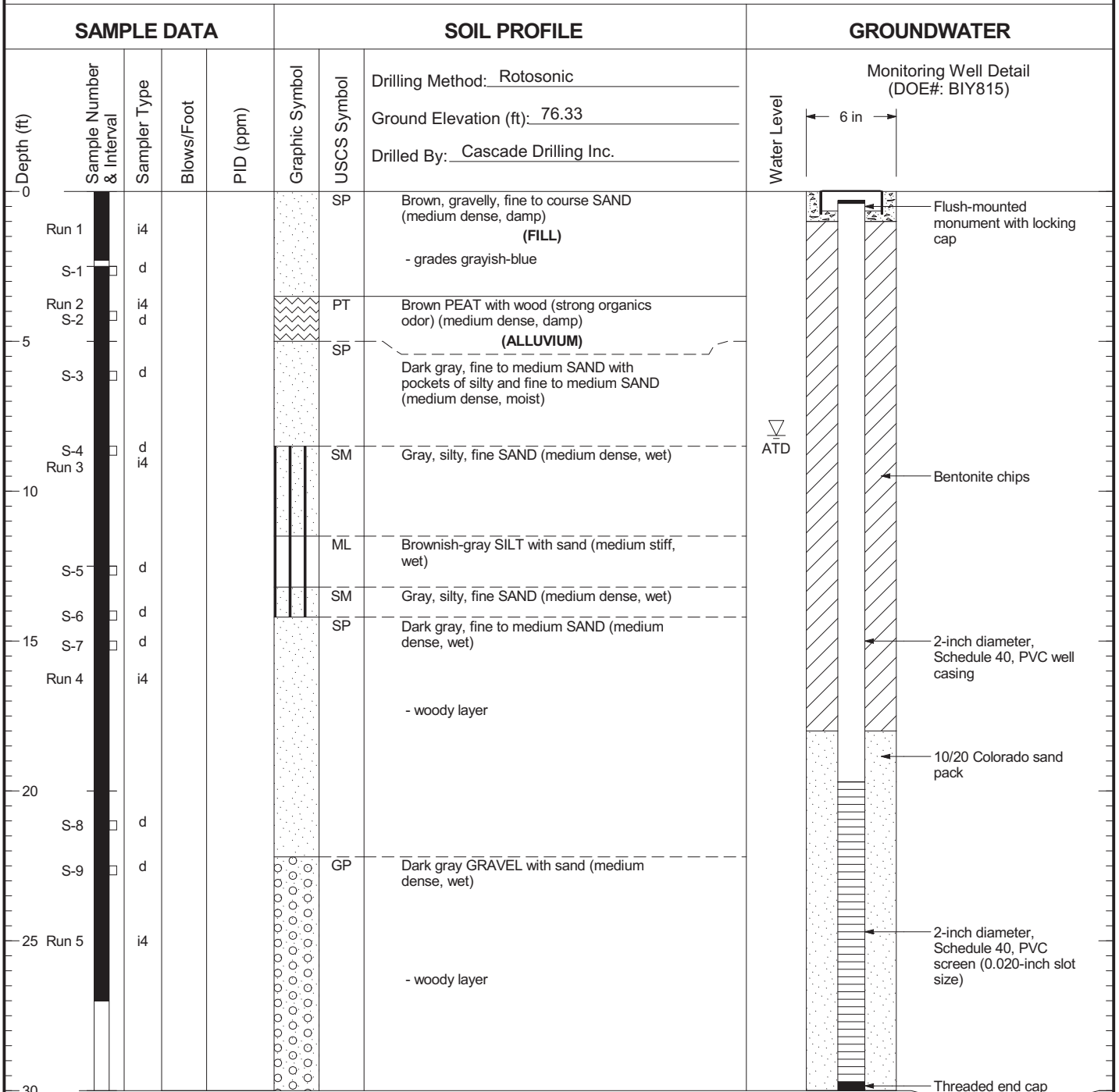


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Auburn, Washington

Log of Monitoring Well AGW272

Figure  
C-241

# AGW273



Boring Completed 08/03/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 08/03/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.10 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BIY815

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

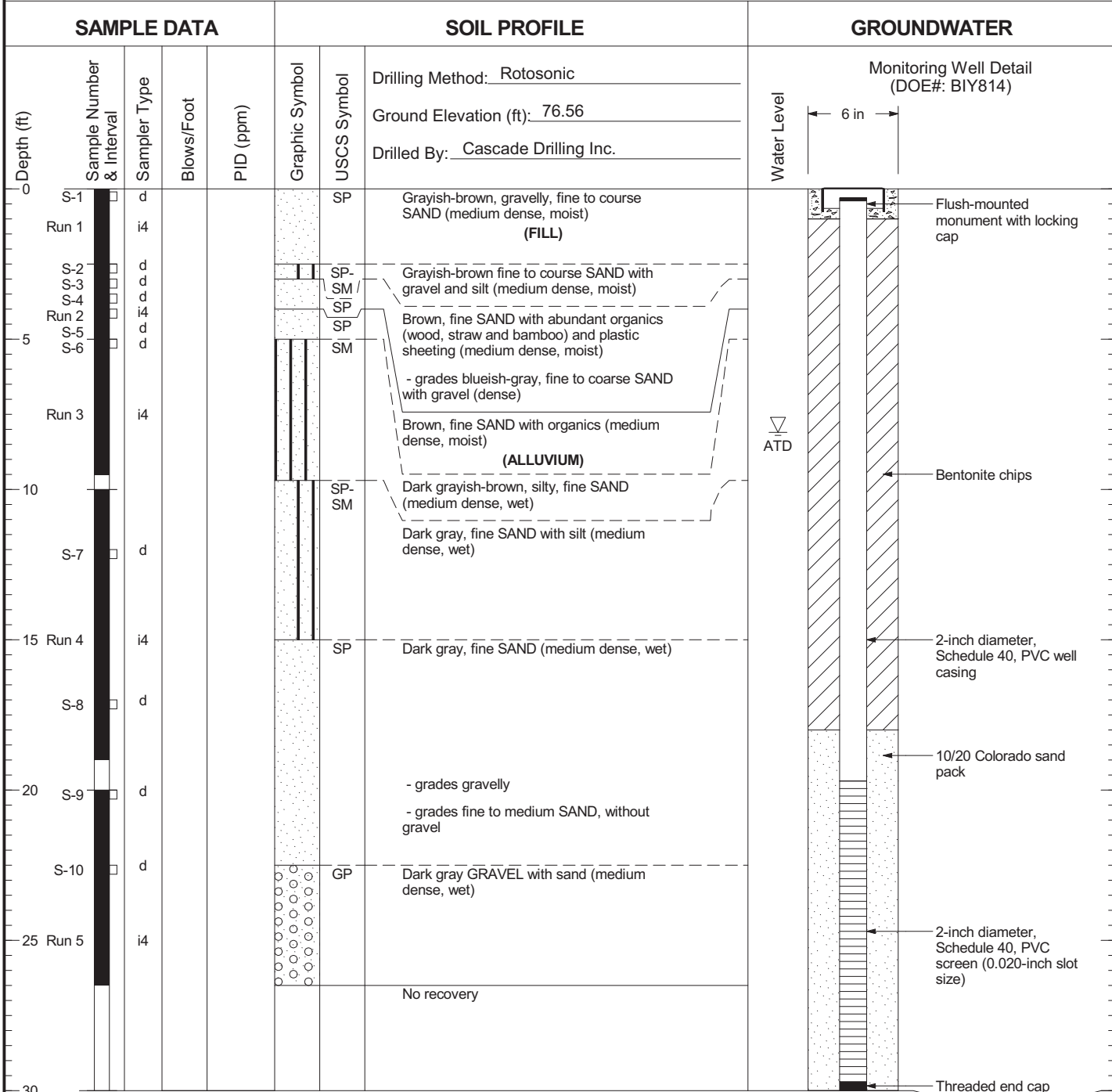


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW273

Figure  
C-242

# AGW274



Boring Completed 08/03/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 08/03/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.32 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BIY814

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW274

Figure  
C-243

# AGW275

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>76.85</u> Drilled By: <u>Cascade Drilling Inc.</u>		
							Water Level	Monitoring Well Detail (DOE#: BIY813)	
0	Run 1	i4			SP	Grayish-brown, fine to coarse SAND with gravel (medium dense, damp) <b>(FILL)</b>		6 in Flush-mounted monument with locking cap  Bentonite chips  2-inch diameter, Schedule 40, PVC well casing  10/20 Colorado sand pack  2-inch diameter, Schedule 40, PVC screen (0.020-inch slot size)  Threaded end cap	
	S-1	d			SP	Dark brown, fine SAND with organics (peat) (medium dense, moist) <b>(ALLUVIUM)</b> - grades gray, without organics - grades dark gray			
	S-2	d							
	Run 2	i4							
	S-3	d							
5	S-4	d							
	Run 3	i4			SM	Dark gray, silty, fine SAND (medium dense, wet)			
	S-5	d			SP	Dark gray, fine to medium SAND (medium dense, wet)  - grades with gravel			
	S-6	d							
	S-7	d							
	S-8	d							
	S-9	d			SP-SM	Dark gray, fine to medium SAND with silt (medium dense, wet)			
15	Run 4	i4			SP	Dark gray, gravelly, fine to medium SAND (medium dense, wet)  - grades fine SAND, without gravel  - grades fine to coarse SAND  - grades fine to medium SAND			
	S-10	d							
	S-11	d							
	S-12	d							
20	S-13	d			GP	Dark gray, sandy GRAVEL (medium dense, wet)			
	S-14	d			ML	Dark gray SILT (medium stiff, wet)  No recovery			
25	Run 5	i4							
30									

Boring Completed 08/04/15  
Total Depth of Boring = 30.0 ft.

Monitoring Well Completed 08/04/15  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Monitoring Well Casing = 76.49 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: BIY813

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

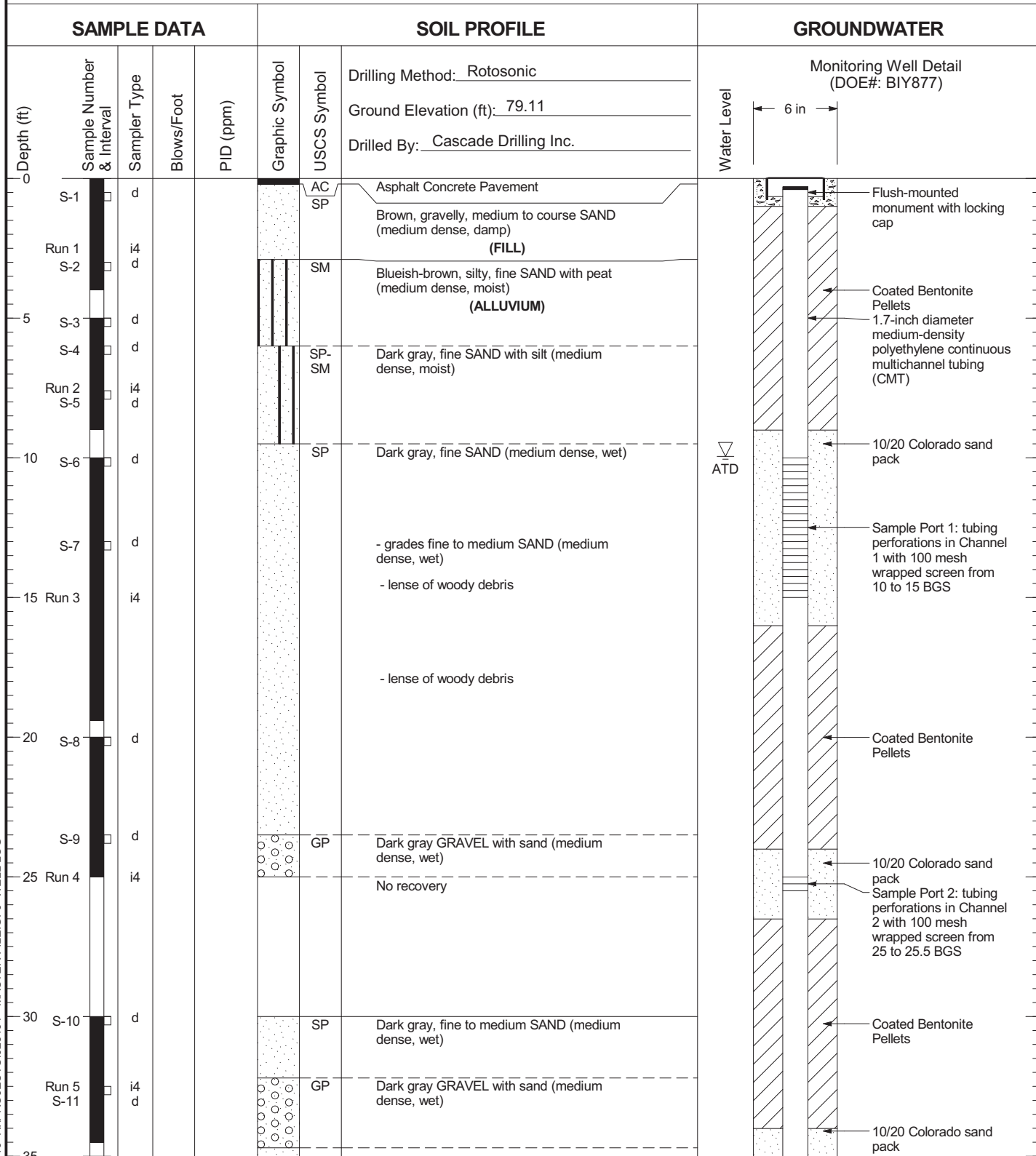


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW275

Figure  
C-244

# AGW276



- 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. DOE Unique Well Number: BIY877

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

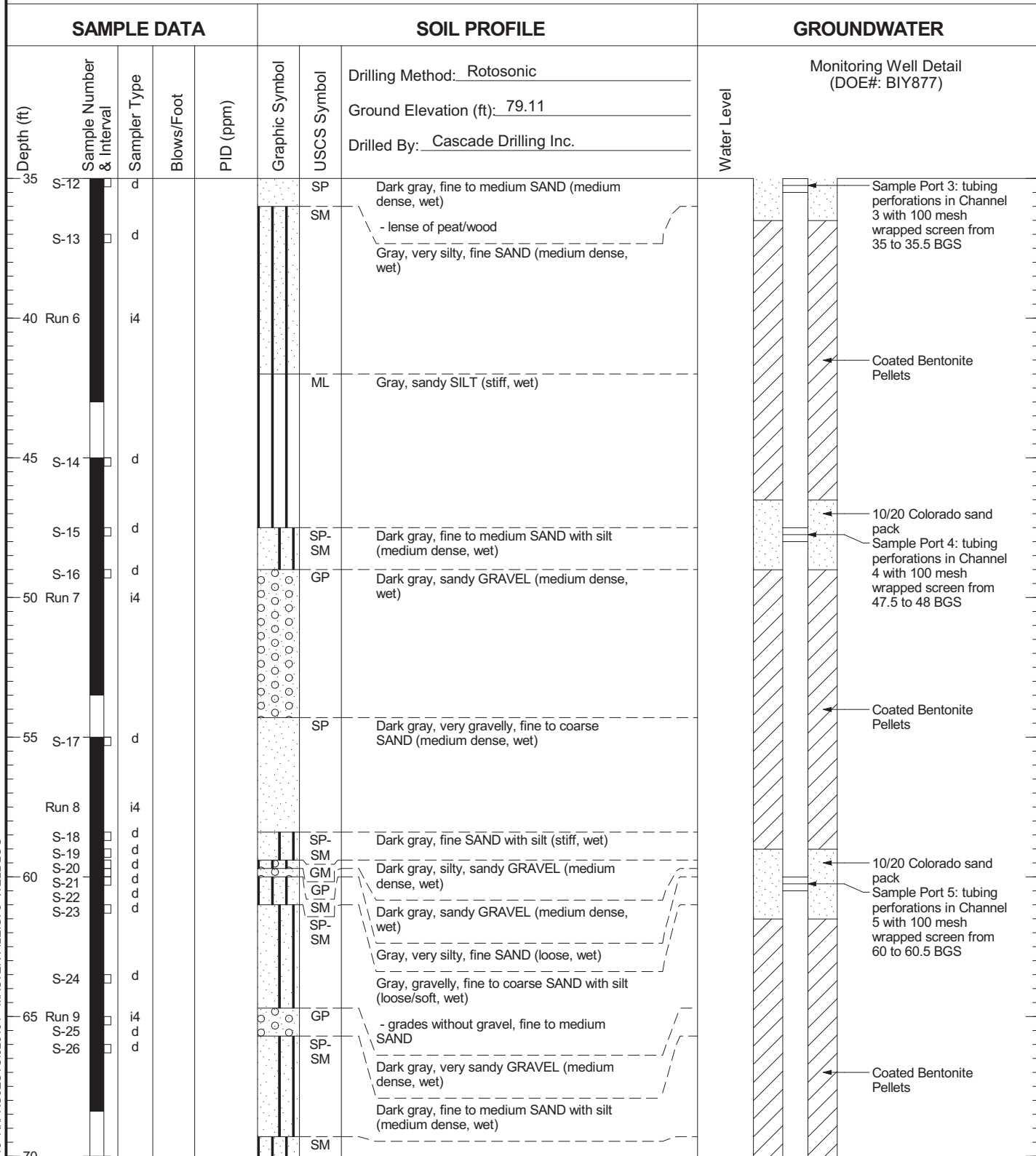


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW276

Figure  
C-245  
(1 of 4)

# AGW276



- 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. DOE Unique Well Number: BIY877

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG

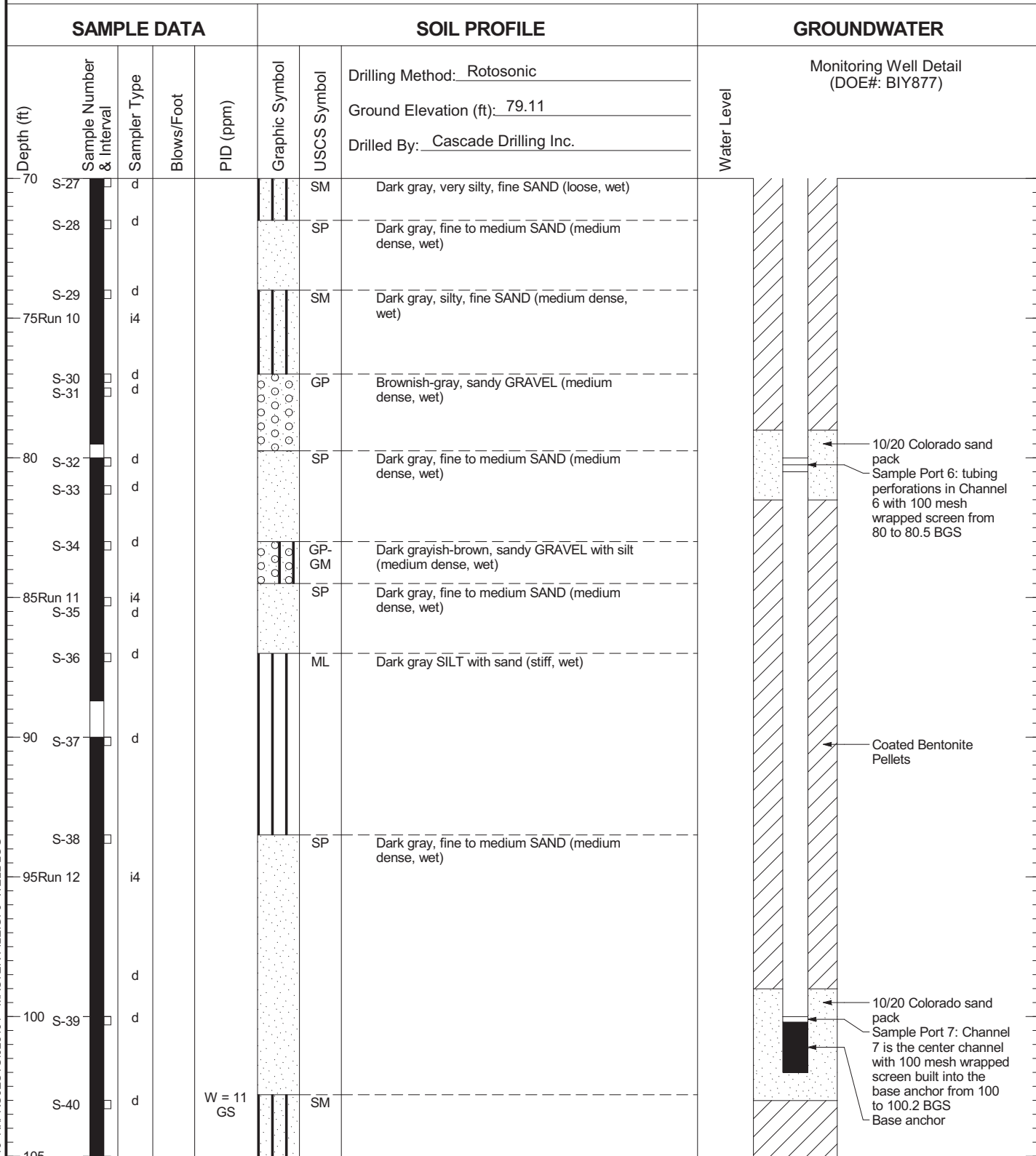


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW276

Figure  
C-245  
(2 of 4)

# AGW276



- 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. DOE Unique Well Number: BIY877

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG





Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW276

Figure  
C-245  
(3 of 4)

# AGW276

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Rotosonic</u> Ground Elevation (ft): <u>79.11</u> Drilled By: <u>Cascade Drilling Inc.</u>	Water Level	Monitoring Well Detail (DOE#: BIY877)	
105	Run 13	4				SM	Gray, very silty, fine to medium SAND with angular to subangular gravel and clay (medium dense, wet) <b>(OSCEOLA MUD FLOW)</b>			
110	Boring Completed 10/06/15 Total Depth of Boring = 110.0 ft.						Monitoring Well Completed 10/07/15 Elevation at Top of Protective Casing = Not measured Elevation at Top of Monitoring Well Casing = 78.74 ft. Total Depth of Monitoring Well = 100.0 ft.			
115										
120										
125										
130										
135										
140										

- 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. DOE Unique Well Number: BIY877

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW276

Figure  
C-245  
(4 of 4)



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Washington State  
Department of Transportation

264777 LOG OF TEST BORING

Start Card RE01737  
21-4E-14A

Job No. XL-2571 SR 167

Elevation ft (m) \_\_\_\_\_  
HOLE No. P-5-07  
Sheet 1 of 2

Project SR 167 Stage 4 HOV

MAY 09 2007  
Driller Dickson, Jody Lic# 2637

Site Address Vic. Of SR 167

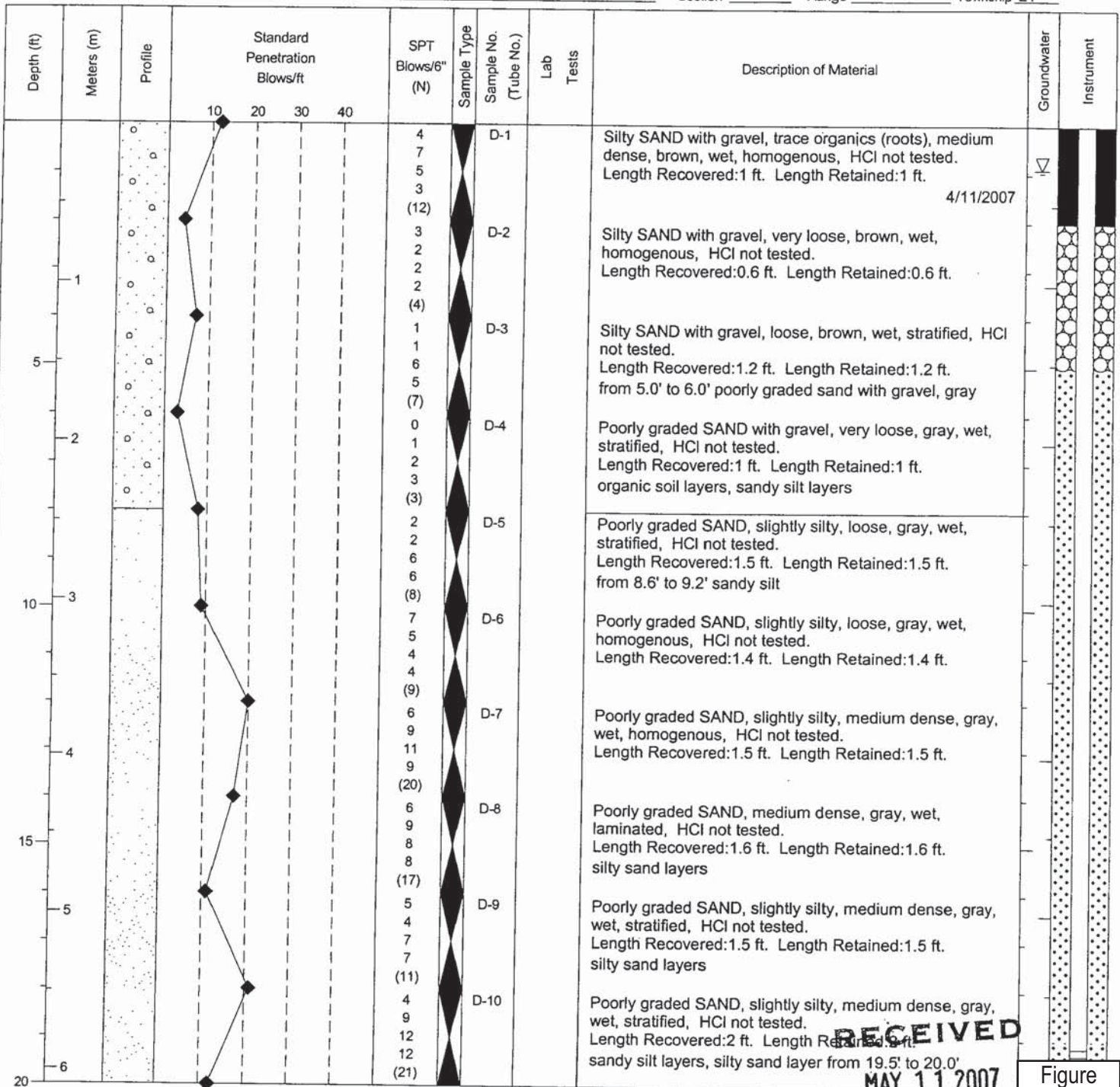
DEPARTMENT OF ECOLOGY  
WELL DRILLING UNIT  
Inspector Donny Henderson  
Equipment CME 850 with Autohammer

Start April 11, 2007 Completion April 11, 2007 Well ID# APP-057

Station 0 Offset 0 Casing 4 Method Wet Rotary

Northing 5239434 Easting 556424 Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

County King Subsection NE1/4 of NE1/4 Section 14 Range 4E Township 21



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Figure C-246 (1 of 3)

SOIL\_XL-2571.GPJ SOIL.GDT 5/3/07 8:29:32 A5



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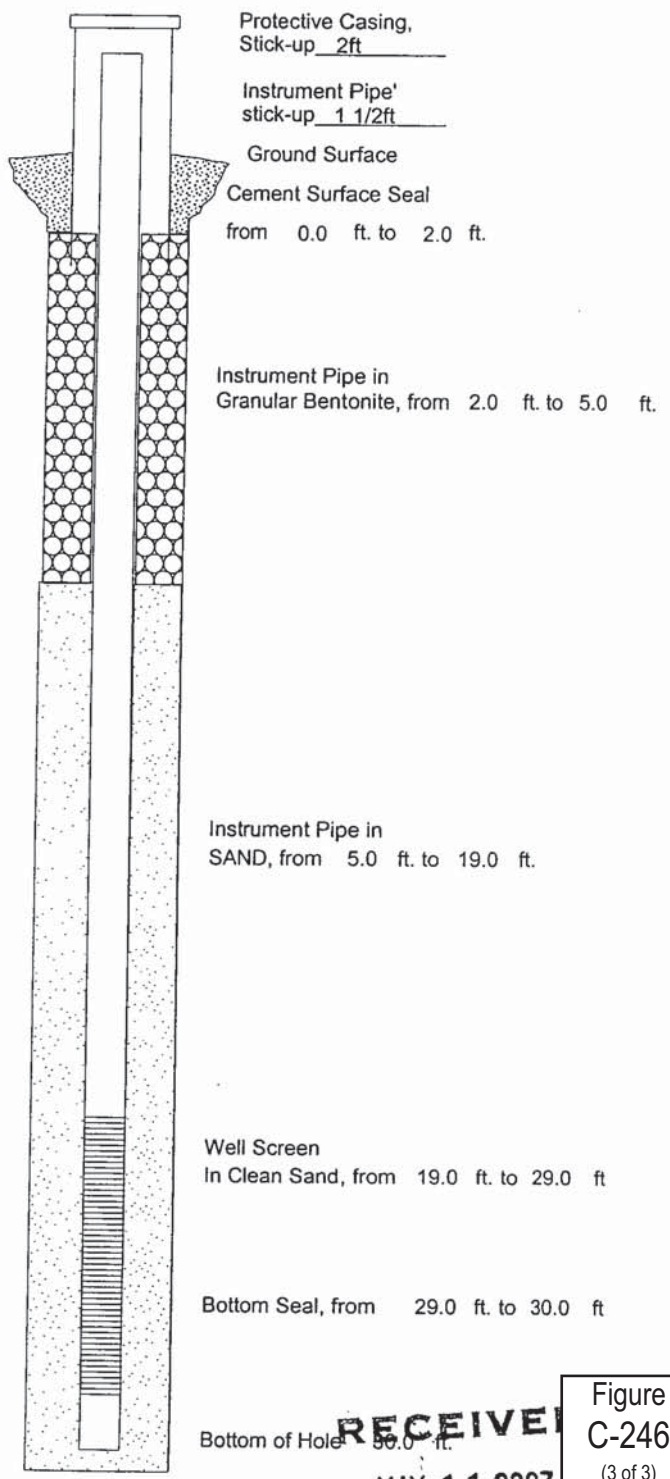
21-4E-14A

# RESOURCE PROTECTION WELL REPORT

Job No.: XL-2571 Start card #:RE01737  
 Project: SR 167 Stage 4 HOV County: King  
 Hole#: P-5-07 Well ID#: APP-057 Location: NE1/4 of NE1/4 Sec: 14 Twn: 21 Range: 4E  
 Method: Wet Rotary Street Address of Well: Vic. Of SR 167  
 Driller: [Signature] Lic #: 2637 Water Table Depth: 0.9  
 Company: WA State Dept. of Transportation Ground Surface Elevation: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Installed: 4/11/2007 Decommissioned: \_\_\_\_\_  
 Cased Hole: \_\_\_\_\_

Casing 4

Filled pipe with Bentonite slurry.  
Cut of 2ft below ground and sealed top of hole.



Protective Casing,  
Stick-up 2ft

Instrument Pipe'  
stick-up 1 1/2ft

Ground Surface

Cement Surface Seal  
from 0.0 ft. to 2.0 ft.

Instrument Pipe in  
Granular Bentonite, from 2.0 ft. to 5.0 ft.

Instrument Pipe in  
SAND, from 5.0 ft. to 19.0 ft.

Well Screen  
In Clean Sand, from 19.0 ft. to 29.0 ft

Bottom Seal, from 29.0 ft. to 30.0 ft

Bottom of Hole 30.0 ft.

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Figure  
C-246  
(3 of 3)

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Washington State  
Department of Transportation

264778 LOG OF TEST BORING

Start Card RE01737 **01-4E-14A**

Job No. XL-2571 SR 167 Elevation ft (m)

HOLE No. P-6-07

Project SR 167 Stage 4 HOV

Sheet 1 of 2

Driller Dickson, Jody Lic# 2637

Site Address Vic. Of SR 167

Inspector Donny Henderson

Start April 11, 2007 Completion April 11, 2007 Well ID# APP-058 Equipment CME 850 with Autohammer

Station 0 Offset 0 Casing 4 Method Wet Rotary

Northing 5239315 Easting 556335 Latitude Longitude

County King Subsection NE1/4 of NE1/4 Section 14 Range 4E Township 21

Depth (ft)	Meters (m)	Profile	Standard Penetration Blows/ft				SPT Blows/6" (N)	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			10	20	30	40							
0	0			20				20					
1	1			12				12					
				8				8					
				7				7					
				(20)				(20)					
				2				2					
				7				7					
				4				4					
				(11)				(11)					
				1				1					
				1				1					
				(2)				(2)					
				2				2					
				3				3					
				(5)				(5)					
				2				2					
				3				3					
				(6)				(6)					
				3				3					
				3				3					
				(9)				(9)					
				2				2					
				3				3					
				(7)				(7)					
				2				2					
				4				4					
				(10)				(10)					
				2				2					
				4				4					
				(9)				(9)					
				2				2					
				4				4					
				(9)				(9)					
				3				3					
				5				5					
				(13)				(13)					

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Figure  
C-247  
(1 of 3)

SOIL XL-2571.GPJ SOIL\_GDT 5/2/07 8:29:36 AM

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LOG OF TEST BORING

Start Card RE01737

Job No. XL-2571

SR 167

Elevation ft (m)

HOLE No. P-6-07

Sheet 2 of 2

Project SR 167 Stage 4 HOV

Driller Dickson, Jody

Lic# 2637

Depth (ft)	Meters (m)	Profile	Standard Penetration Blows/ft				SPT Blows/6" (N)	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			10	20	30	40							
0	0												
1	0.3					1		D-11		Poorly graded SAND, loose, gray, wet, laminated, HCl not tested. Length Recovered:1.6 ft. Length Retained:1.6 ft. sandy silt lense at 21.5'			
3	0.9					3							
6	1.8					6							
5	1.5					5							
(9)						(9)		D-12		Poorly graded SAND, medium dense, gray, wet, stratified, HCl not tested. Length Recovered:2 ft. Length Retained:2 ft. from 23.0' to 24.0' silty sand, sandy silt lenses			
4	1.2					4							
4	1.2					4							
6	1.8					6							
5	1.5					5							
(10)						(10)		D-13		Poorly graded SAND, medium to coarse grained, medium dense, gray, wet, stratified, HCl not tested. Length Recovered:2 ft. Length Retained:2 ft. from 25.2' to 26.0' silty sand with gravel			
4	1.2					4							
8	2.4					8							
4	1.2					4							
6	1.8					6							
(12)						(12)		D-14		Poorly graded SAND, slightly silty, medium dense, gray, wet, stratified, HCl not tested. Length Recovered:1.1 ft. Length Retained:1.1 ft. piece of wood from 27.5' to 28.0', drilled hole to 29.0' to get 1.0' bottom seal for piezometer installation			
5	1.5					5							
5	1.5					5							
7	2.1					7							
(10)						(10)							
29	8.8									End of test hole boring at 29 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal			
30	9.1												
9	2.7												
10	3.0												
35	10.7												
11	3.3												
40	12.2												
12	3.6												
45	13.7												

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Figure  
C-247  
(2 of 3)

SOIL\_XL-2571.GPJ SOIL.GDT 5/3/07 8:29:37 AM

21-4E-14A

# RESOURCE PROTECTION WELL REPORT

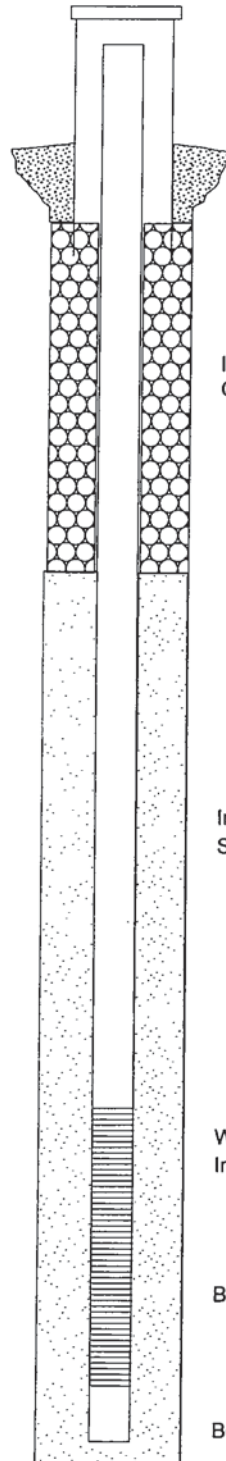
Job No.: XL-2571  
 Project: SR 167 Stage 4 HOV  
 Hole#: P-6-07 Well ID#: APP-058  
 Method: Wet Rotary  
 Driller: [Signature] Lic #: 2637  
 Company: WA State Dept. of Transportation  
 Signature: \_\_\_\_\_

Start card #RE01737

County: King  
 Location: NE1/4 of NE1/4 Sec: 14 Twn: 21 Range: 4E  
 Street Address of Well: Vic. Of SR 167  
 Water Table Depth: 0.5  
 Ground Surface Elevation: \_\_\_\_\_  
 Installed: 4/11/2007 Decommissioned: \_\_\_\_\_  
 Cased Hole: \_\_\_\_\_

Casing 4

Filled pipe with Bentonite slurry.  
 Cut of 2ft below ground and sealed top of hole.



Protective Casing,  
Stick-up 2ft

Instrument Pipe'  
stick-up 1 1/2ft

Ground Surface  
Cement Surface Seal  
from 0.0 ft. to 2.0 ft.

Instrument Pipe in  
Granular Bentonite, from 2.0 ft. to 5.0 ft.

Instrument Pipe in  
SAND, from 5.0 ft. to 18.0 ft.

Well Screen  
In Clean Sand, from 18.0 ft. to 28.0 ft

Bottom Seal, from 28.0 ft. to 29.0 ft

Bottom of Hole 29.0 ft

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Figure  
C-247  
(3 of 3)

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Washington State  
Department of Transportation

LOG OF TEST BORING

21-4E-14h

Start Card RE01795

Job No. XL-2571

SR 167

Elevation ft (4m)

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HOLE No. P-32-07

Sheet 1 of 2

Project SR 167 Stage 4 HOV

**MAY 09 2007**

Driller Stewart, Jason

Lic# 2614

Site Address W Main St & W Valley HWY

DEPARTMENT OF ECOLOGY  
WELL DRILLING UNIT

Inspector Verlo, Sean

Start May 1, 2007

Completion May 1, 2007

Well ID# APP-069

Equipment CME 45 with Autohammer

Station 0

Offset 0

Casing 4

Method Wet Rotary

Northing \_\_\_\_\_

Easting \_\_\_\_\_

Latitude \_\_\_\_\_

Longitude \_\_\_\_\_

County King

Subsection SE1/4 of NE1/4

Section 14

Range 4E

Township 21

Depth (ft)	Meters (m)	Profile	Standard Penetration Blows/ft	SPT Blows/6" (N)	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			10 20 30 40	7		D-1		Silty SAND with gravel, dense, brown, moist, homogenous, HCl not tested. Length Recovered:1 ft. Length Retained:1 ft.		
				14						
				13						
				10						
				(27)						
				8		D-2		Silty SAND with gravel, Silt Lens, medium dense, brown, wet, stratified, HCl not tested. Length Recovered:0.6 ft. Length Retained:0.6 ft.		
				8						
				6						
				4						
				(14)						
1				1		D-3		Sandy SILT with gravel, mixed colors, very loose, gray, wet, stratified, HCl not tested. Length Recovered:1.1 ft. Length Retained:1.1 ft.		
				1						
				2						
				3						
				(3)						
5				2		D-4		Silty SAND with gravel, medium dense, gray, wet, homogenous, HCl not tested. Length Recovered:0.9 ft. Length Retained:0.9 ft.		
				6						
				4						
				4						
				(10)						
				2		D-5		Silty SAND, loose, gray, wet, homogenous, HCl not tested. Length Recovered:1.4 ft. Length Retained:1.4 ft.		
				3						
				3						
				4						
				(6)						
10				2		D-6		Silty SAND, trace of organics & wood, loose, gray, wet, homogenous, HCl not tested. Length Recovered:1 ft. Length Retained:1 ft.		
				3						
				2						
				4						
				(5)						
				4		D-7		Silty SAND with gravel, medium dense, gray, wet, homogenous, HCl not tested. Length Recovered:1.2 ft. Length Retained:1.2 ft.		
				7						
				9						
				11						
				(16)						
				21		D-8		Well graded GRAVEL, , dense, gray, wet, homogenous, HCl not tested. Length Recovered:1 ft. Length Retained:1 ft.		
				16						
				25						
				22						
				(41)						
				12		D-9		Well graded GRAVEL, , dense, gray, wet, homogenous, HCl not tested. Length Recovered:0.5 ft. Length Retained:0.5 ft.		
				14						
				11						
				13						
				(25)						

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**MAY 11 2007**

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Figure  
C-248  
(1 of 3)

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LOG OF TEST BORING

Start Card REO1795

Job No. XL-2571

SR 167

Elevation ft (m)

HOLE No. P-32-07

Sheet 2 of 2

Driller Stewart, Jason Lic# 2614

Project SR 167 Stage 4 HOV

Depth (ft)	Meters (m)	Profile	Standard Penetration Blows/ft				SPT Blows/6" (N)	Sample Type	Sample No. (Tube No.)	Lab Tests	Description of Material	Groundwater	Instrument
			10	20	30	40							
7													
25													
8													
9													
30													
10													
35													
11													
40													
12													
45													
13													

End of test hole boring at 20 ft below ground elevation. This is a summary Log of Test Boring. Soil/Rock descriptions are derived from visual field identifications and laboratory test data. Note: REF = SPT Refusal

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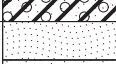









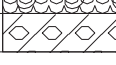
Figure C-248  
(2 of 3)



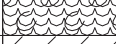



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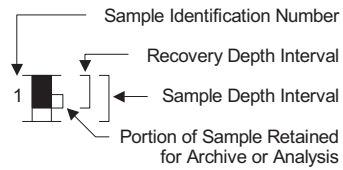


## **Decommissioned Wells**

# Soil Classification System

	MAJOR DIVISIONS	GRAPHIC SYMBOL	USCS LETTER SYMBOL <sup>(1)</sup>	TYPICAL DESCRIPTIONS <sup>(2)(3)</sup>	
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)		<b>GW</b>	Well-graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		<b>GP</b>	Poorly graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		<b>GM</b>	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)		<b>SW</b>	Well-graded sand; gravelly sand; little or no fines
		SAND WITH FINES (Appreciable amount of fines)		<b>SP</b>	Poorly graded sand; gravelly sand; little or no fines
		SAND WITH FINES (Appreciable amount of fines)		<b>SM</b>	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)		<b>ML</b>	Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity	
			<b>CL</b>	Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay	
			<b>OL</b>	Organic silt; organic, silty clay of low plasticity	
	SILT AND CLAY  (Liquid limit greater than 50)		<b>MH</b>	Inorganic silt; micaceous or diatomaceous fine sand	
			<b>CH</b>	Inorganic clay of high plasticity; fat clay	
			<b>OH</b>	Organic clay of medium to high plasticity; organic silt	
	HIGHLY ORGANIC SOIL		<b>PT</b>	Peat; humus; swamp soil with high organic content	

OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		<b>AC or PC</b>	Asphalt concrete pavement or Portland cement pavement
ROCK		<b>RK</b>	Rock (See Rock Classification)
WOOD		<b>WD</b>	Wood, lumber, wood chips
DEBRIS		<b>DB</b>	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 style="width: 100%; border-collapse: collapse;"> <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 style="width: 100%; border-collapse: collapse;"> <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
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																																																					
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PP = 1.0	Pocket Penetrometer, tsf																																																					
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W = 10	Moisture Content, %																																																					
D = 120	Dry Density, pcf																																																					
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AL	Atterberg Limits - See separate figure for data																																																					
GT	Other Geotechnical Testing																																																					
CA	Chemical Analysis																																																					
<b>Groundwater</b>																																																						
		Approximate water level at time of drilling (ATD)																																																				
		Approximate water level at time other than ATD																																																				

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW001

Sheet 1 of 2

Date(s) Drilled	6/16/94		Logged By	T Morin		Checked By			
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	8.25" ID		Total Depth Drilled (feet)	25.0		
Drill Rig Type			Drilling Contractor	McGarrel Drilling		Hammer Weight/Drop (lbs/in.)			
Groundwater Level (feet)	14		Date Measured	06/16/94		Approx. Surface Elevation (feet)	86.6		
Diameter of Hole (inches)	Diameter of Well (inches)	4		Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Factory Slotted SCH 40 PVC	
Type of Sand Pack	10/20 Colorado Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips					
Comments									

Report: LNW\_14... .jefl File: C:\PROGRA~1\CANTIV~\PROJECTS\BOEING GP-; Date Template: WC\_CORP1.CDT Printed: 10/21/98

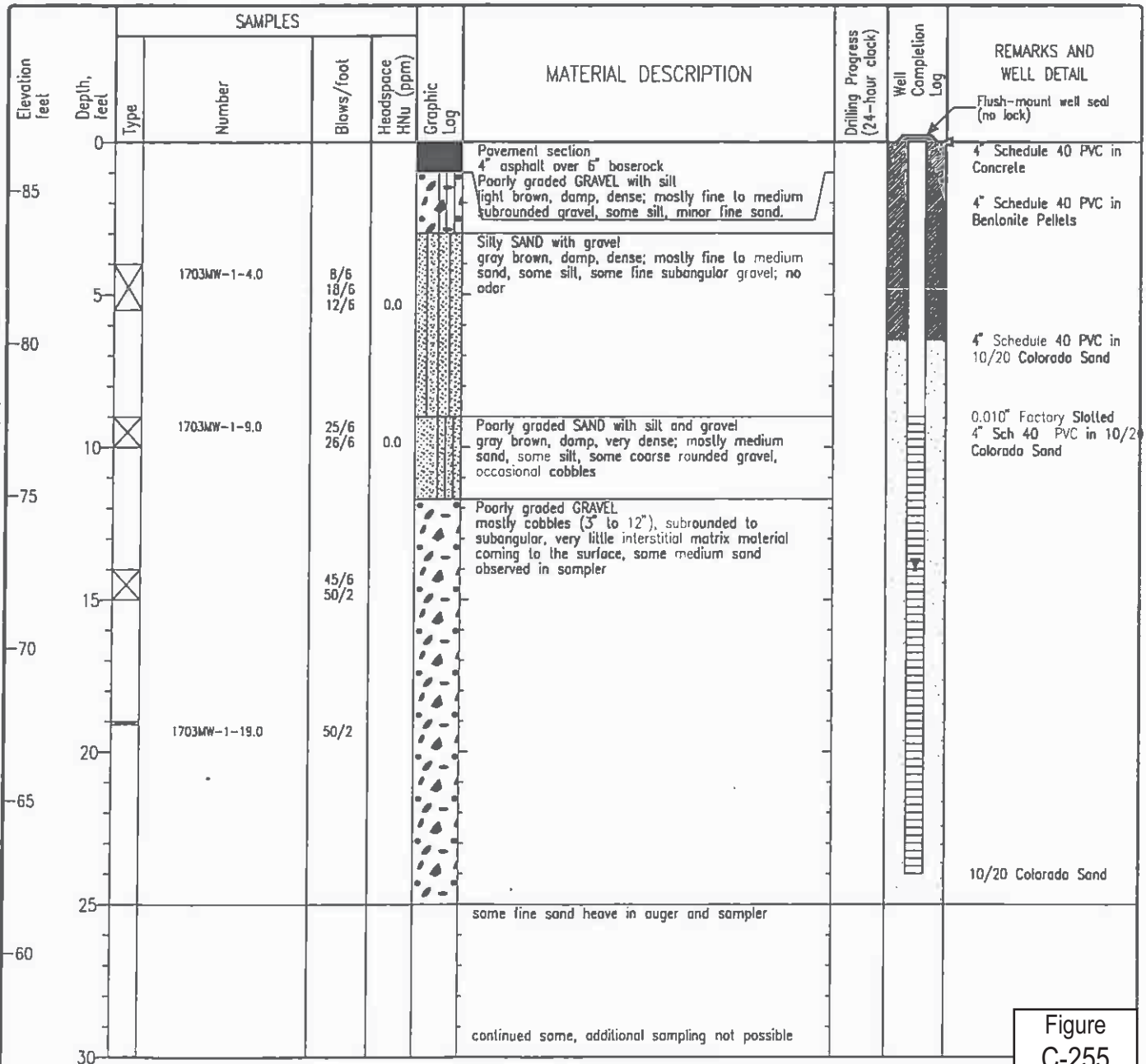


Figure C-255  
(1 of 2)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW001

Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace HNu (ppm)				
30						due to sand heave and cobbles			
55									
35									
50									
40									
45									
45									
40									
50									
35									
55									
30									
60									
25									
65									
20									
70									

Report: ENW\_1A... Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOEING.DPJ; Data Template WC\_CORP1.GDT Printed: 10/21/98

Figure  
 C-255  
 (2 of 2)

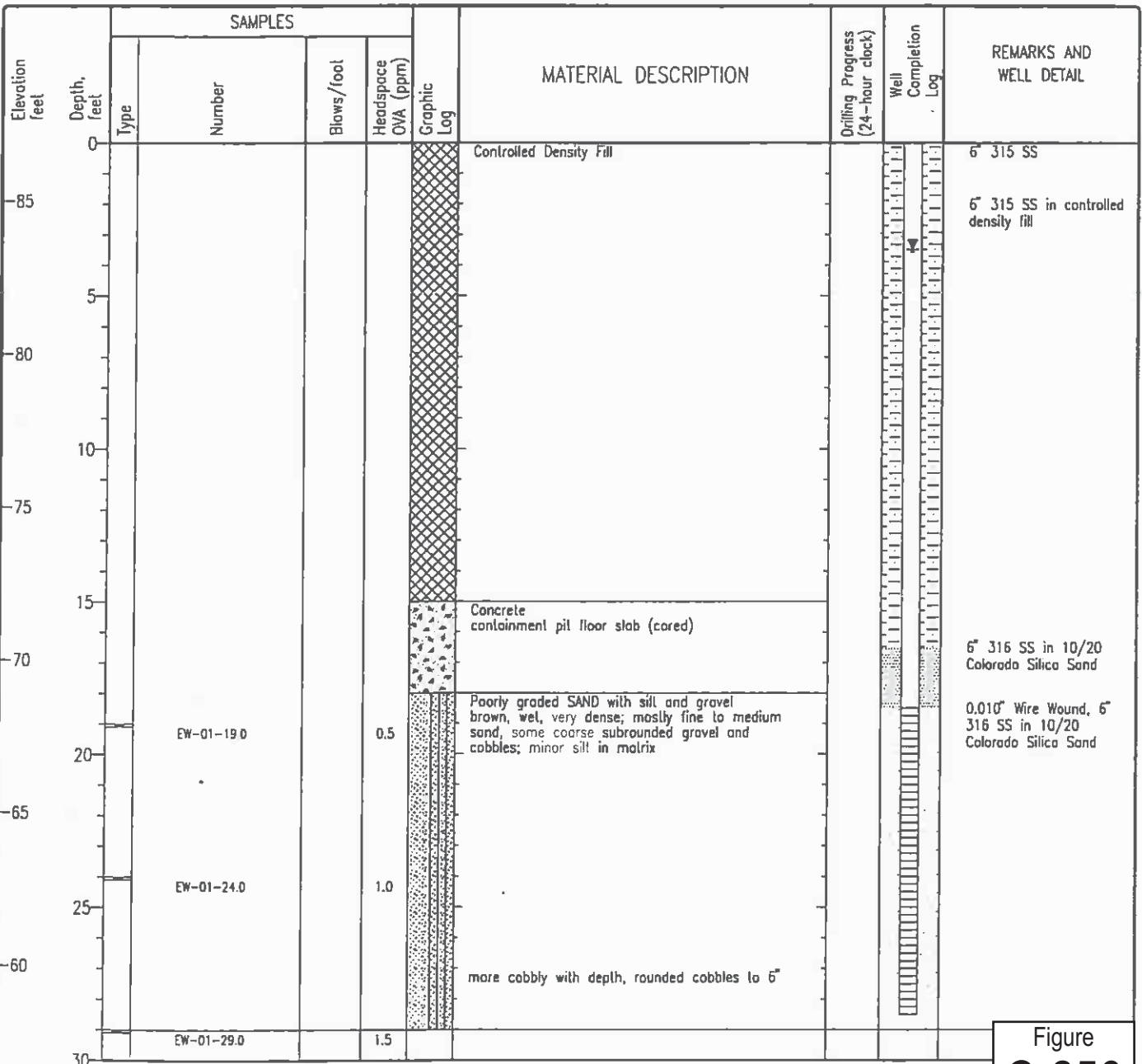


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW002

Sheet 1 of 1

Date(s) Drilled	6/20/94	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	6.25" Pilot to 8.25"	Total Depth Drilled (feet)	29.0
Drill Rig Type	CME 55 Portable	Drilling Contractor	Cascade Drilling, Inc.	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	3.5	Date Measured	06/20/94	Approx. Surface Elevation (feet)	86.9
Diameter of Hole (inches)	Diameter of Well (inches) 6	Type of Well Casing	Stainless Steel	Screen Perforation	0.010" Wire Wound, 6" 316 SS
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Concrete (Controlled Density Fill)		
Comments					



Report: EW\_11... Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING.DPJ; Date Template: WC\_CORP1.GDT Printed: 10/21/98

Figure C-256

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW003  
 Sheet 1 of 2

Date(s) Drilled	6/21/94		Logged By	T Marin		Checked By		
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	6.25"		Total Depth Drilled (feet)	48.0	
Drill Rig Type	CME 55 Portable		Drilling Contractor	Cascade Drilling, Inc.		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	19		Date Measured	06/21/94		Approx. Surface Elevation (feet)	86.9	
Diameter of Hole (inches)	Diameter of Well (inches) 2		Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Factory Slotted SCH 40 PVC	
Type of Sand Pack	Prepacked filler with natural cave-in		Type/Thickness of Seal(s)	Volclay Grout				
Comments								

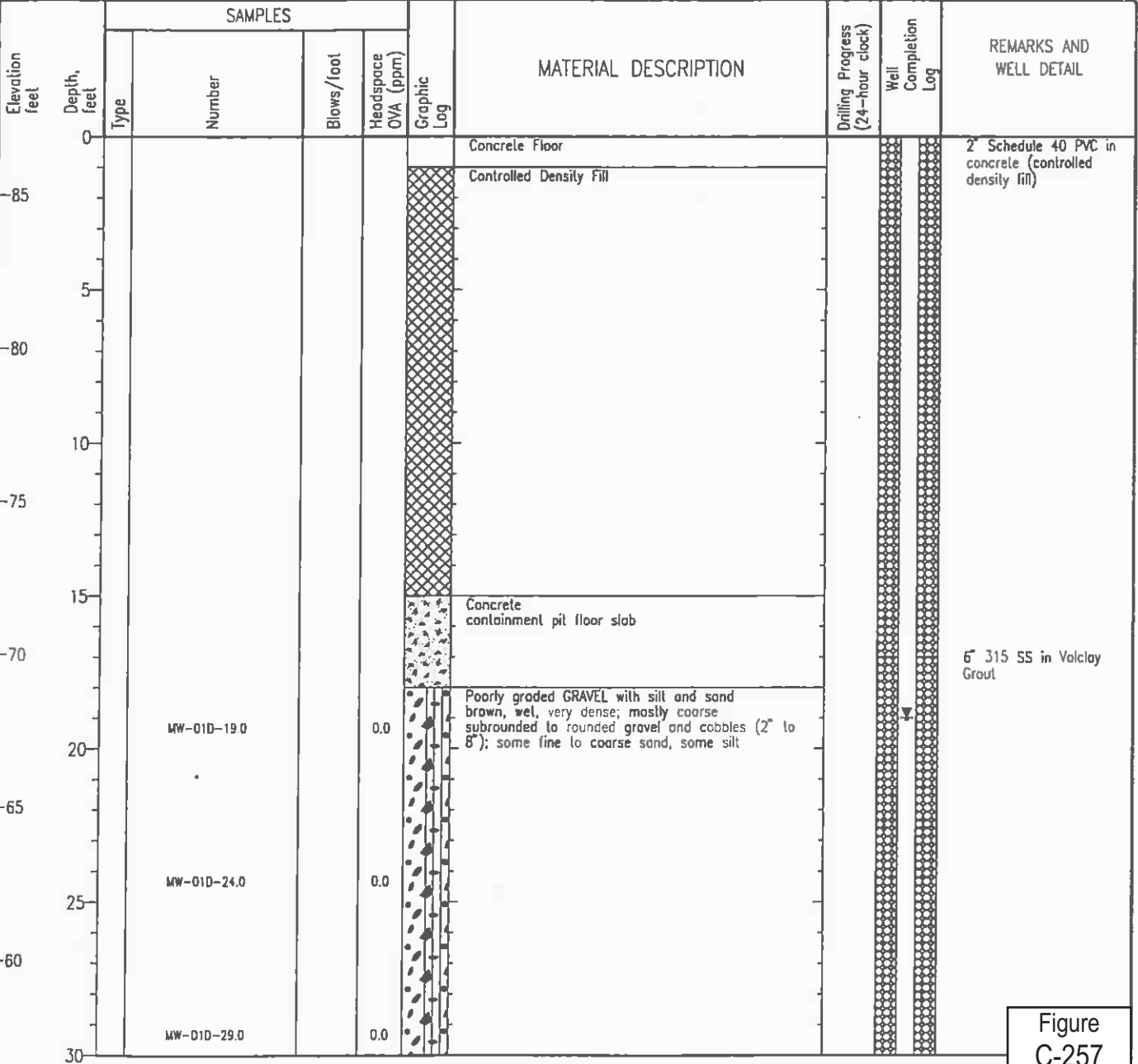


Figure C-257  
 (1 of 2)

Report: E:\\_1A... Subject File: C:\PROGRAMS\1\GINTW\PROJECTS\BOEING.CPJ; Data Template: WC\_CORPT.GDT Printed: 10/21/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW003

Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace OVA (ppm)				
30									
35			MW-01D-34.0 MW-01D-35.0	40/6 40/6 40/6	0.0 0.0	Poorly graded SAND with gravel black, wet, dense; mostly medium sand, some fine to medium subangular gravel		2" Schedule 40 PVC in Prepacked Filter with Natural Cove-in	
40			MW-01D-39.9		0.0	Poorly graded GRAVEL with silt and sand brown, damp, very dense (uncertain of cutting depth/distinct change in drilling character)			
45			MW-01D-44.0 MW-01D-44.5	32/6 60/6 100/4	0.0 10.0			0.010" Factory Slotted 2" SCH 40 PVC in Prepacked Filter with Natural Cove-in	
50			MW-01D-48.0		0.0				
55									
60									
65									
70									

Report: E:\M...-Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING\GF3; Data Template:WC\_CORPT.GDT Printed: 10/21/98

Figure  
C-257  
(2 of 2)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW004

Sheet 1 of 1

Date(s) Drilled	6/21/94		Logged By	T Morin		Checked By		
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	6.25" ID		Total Depth Drilled (feet)	29.0	
Drill Rig Type	CME 55 Portable		Drilling Contractor	Cascade Drilling Inc		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	19		Date Measured	06/21/94		Approx Surface Elevation (feet)	86.8	
Diameter of Hole (inches)	Diameter of Well (inches) 2		Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Factory Slotted SCH 40 PVC	
Type of Sand Pack	10/20 Colorado Silica Sand		Type/Thickness of Seal(s)	Benlonite Chips				
Comments								

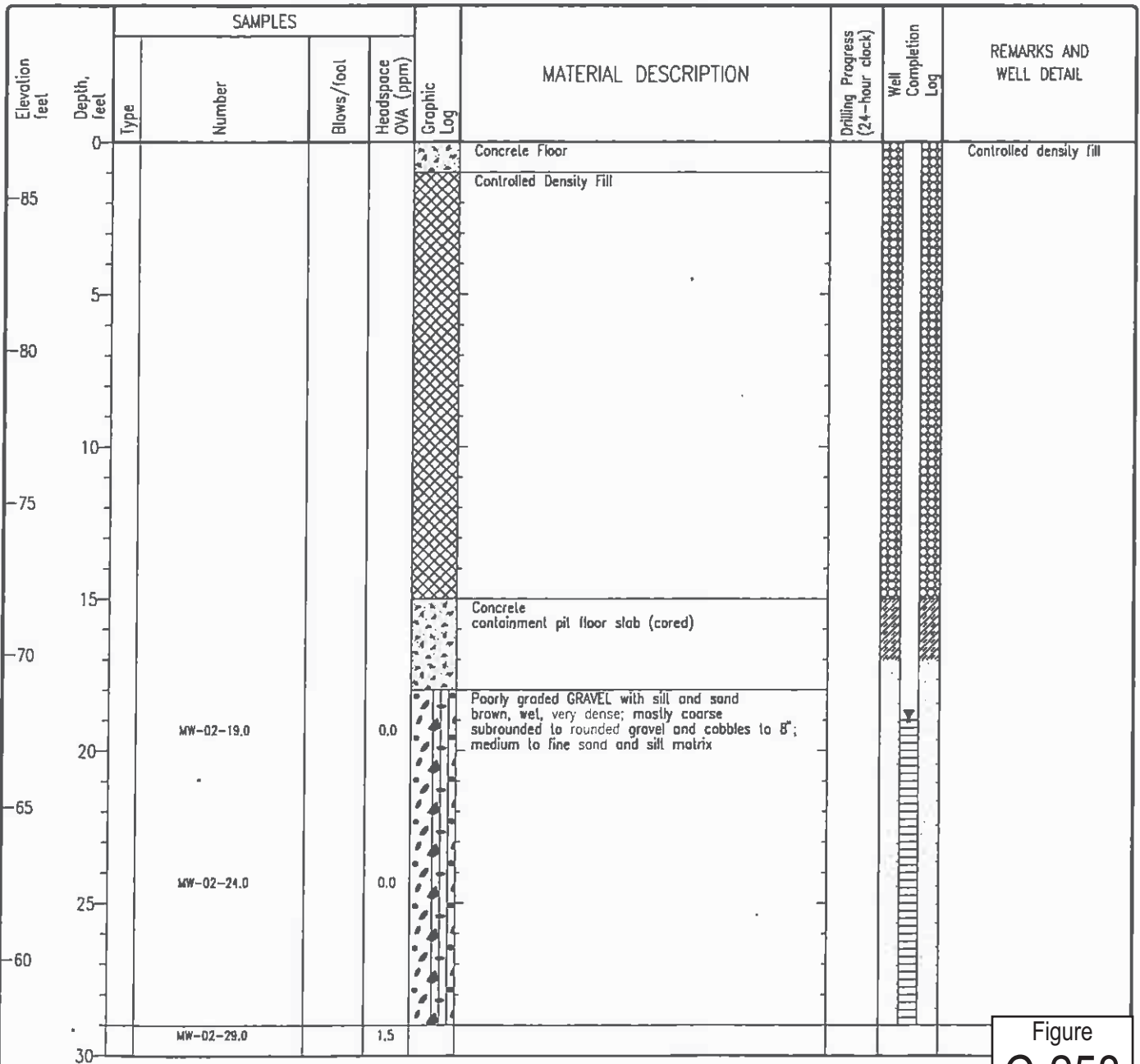


Figure C-258



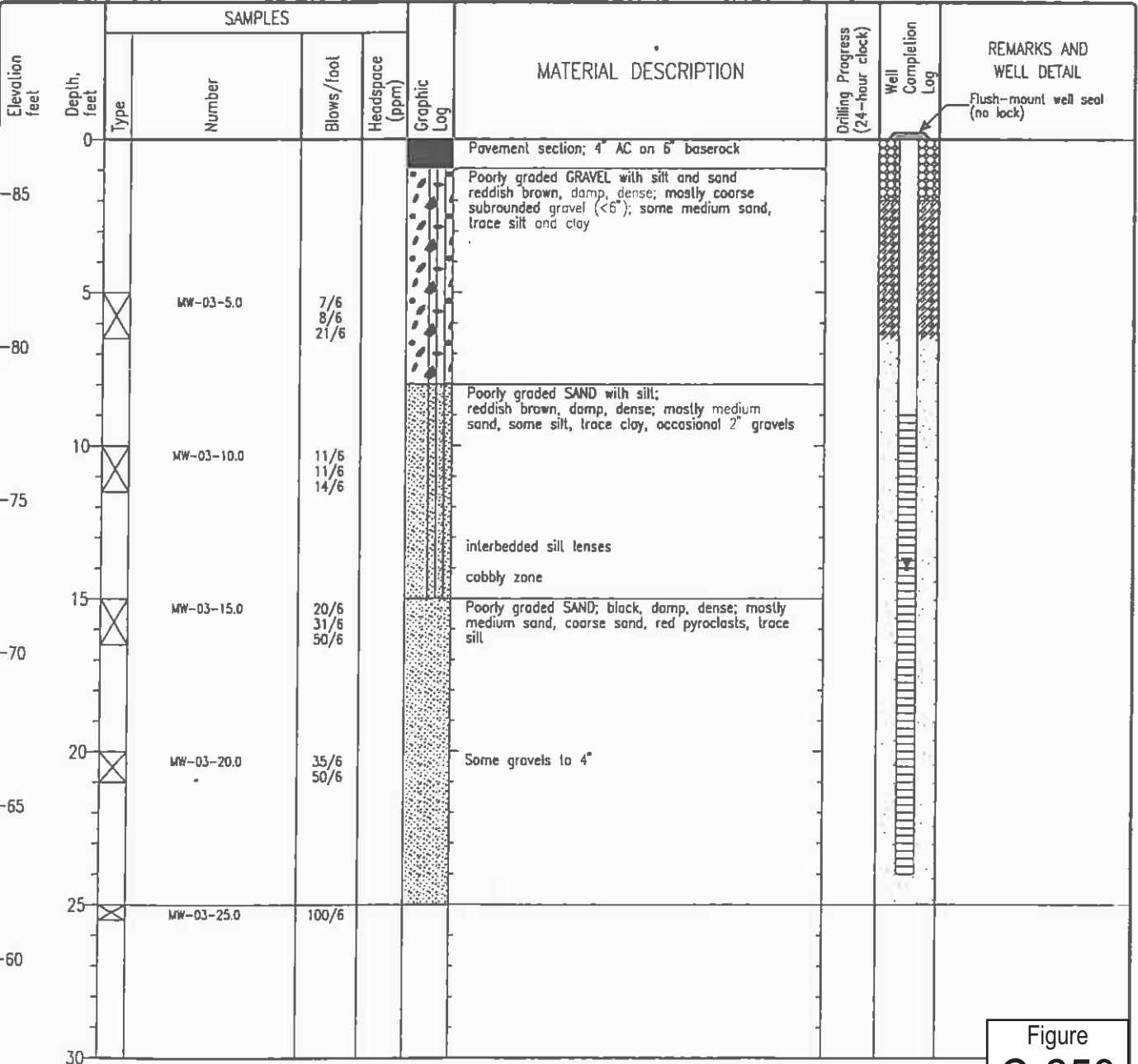
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Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW005  
 Sheet 1 of 1

Date(s) Drilled	6/21/94		Logged By	T Morin		Checked By		
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	8.25" ID		Total Depth Drilled (feet)	25.0	
Drill Rig Type	CME 75 Hi-Torque		Drilling Contractor	Cascade Drilling Inc		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	14		Date Measured	06/21/94		Approx. Surface Elevation (feet)	86.8	
Diameter of Hole (inches)	Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Factory Slotted SCH 40 PVC	
Type of Sand Pack	10/20 Colorado Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips				
Comments								



Report: ENV\_Lk\_...\_report.Fig: C:\PROGRAMS\GINTW\PROJECTS\BOCING.DPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

Figure C-259

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW006

Sheet 1 of 1

Date(s) Drilled	6/22/94	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	8.25" ID	Total Depth Drilled (feet)	26.0
Drill Rig Type	CME 75 Hi-Torque	Drilling Contractor	Cascade Drilling Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16	Date Measured	06/22/94	Approx. Surface Elevation (feet)	86.7
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

Report: EN\_1: \project File C:\PROGRAM-1\GENM\PROJECTS\BOING\CPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

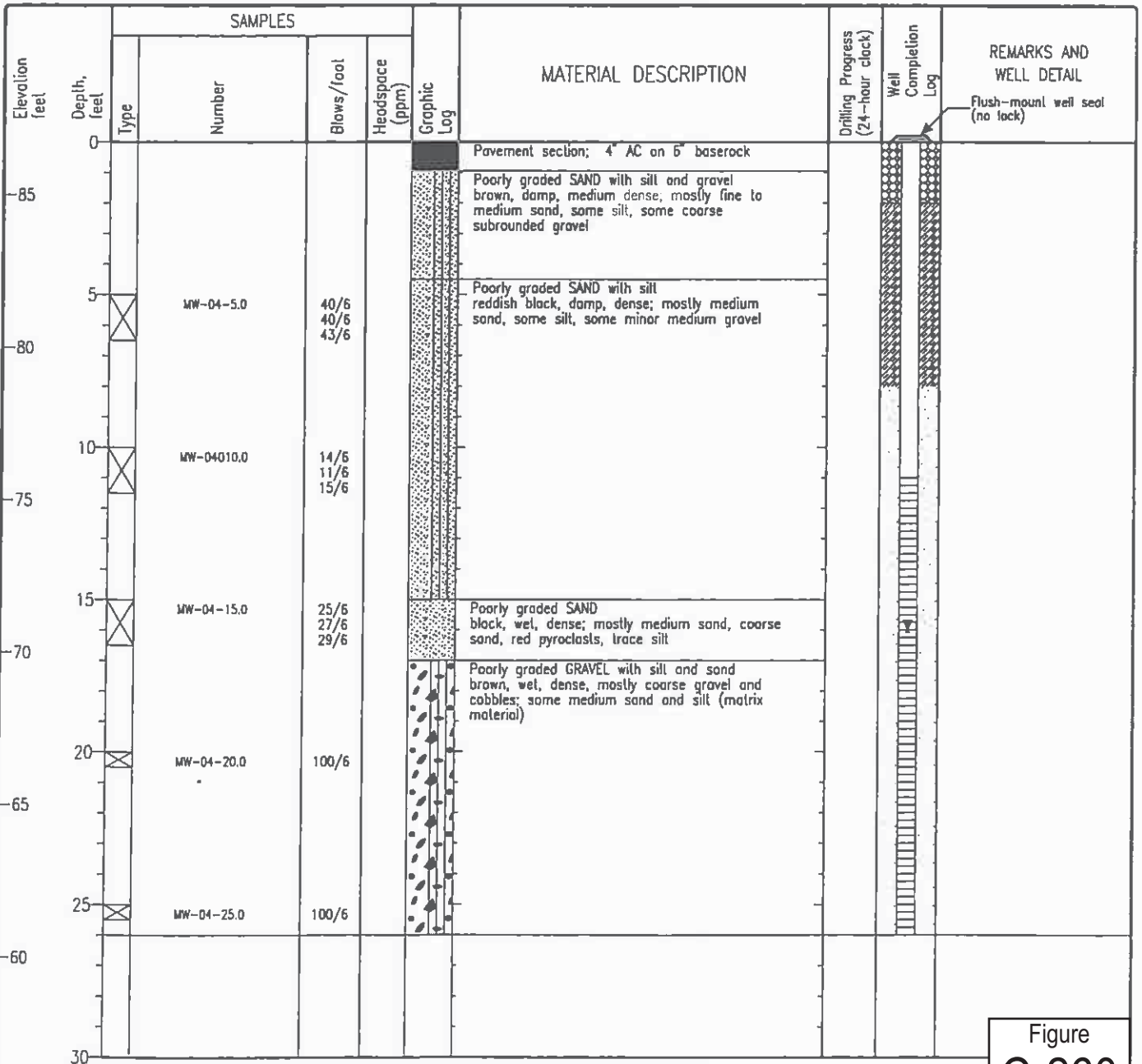


Figure  
**C-260**

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW007

Sheet 1 of 1

Date(s) Drilled	6/22/94		Logged By	T Morin		Checked By			
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type	8.25" ID		Total Depth Drilled (feet)	27.0		
Drill Rig Type	CME 75 Hi-Torque		Drilling Contractor	Cascade Drilling Inc		Hammer Weight/Drop (lbs/in.)			
Groundwater Level (feet)	17		Date Measured	06/22/94		Approx. Surface Elevation (feet)	86.7		
Diameter of Hole (inches)	Diameter of Well (inches)	4		Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Factory Slotted SCH 40 PVC	
Type of Sand Pack	10/20 Colorado Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips					
Comments									

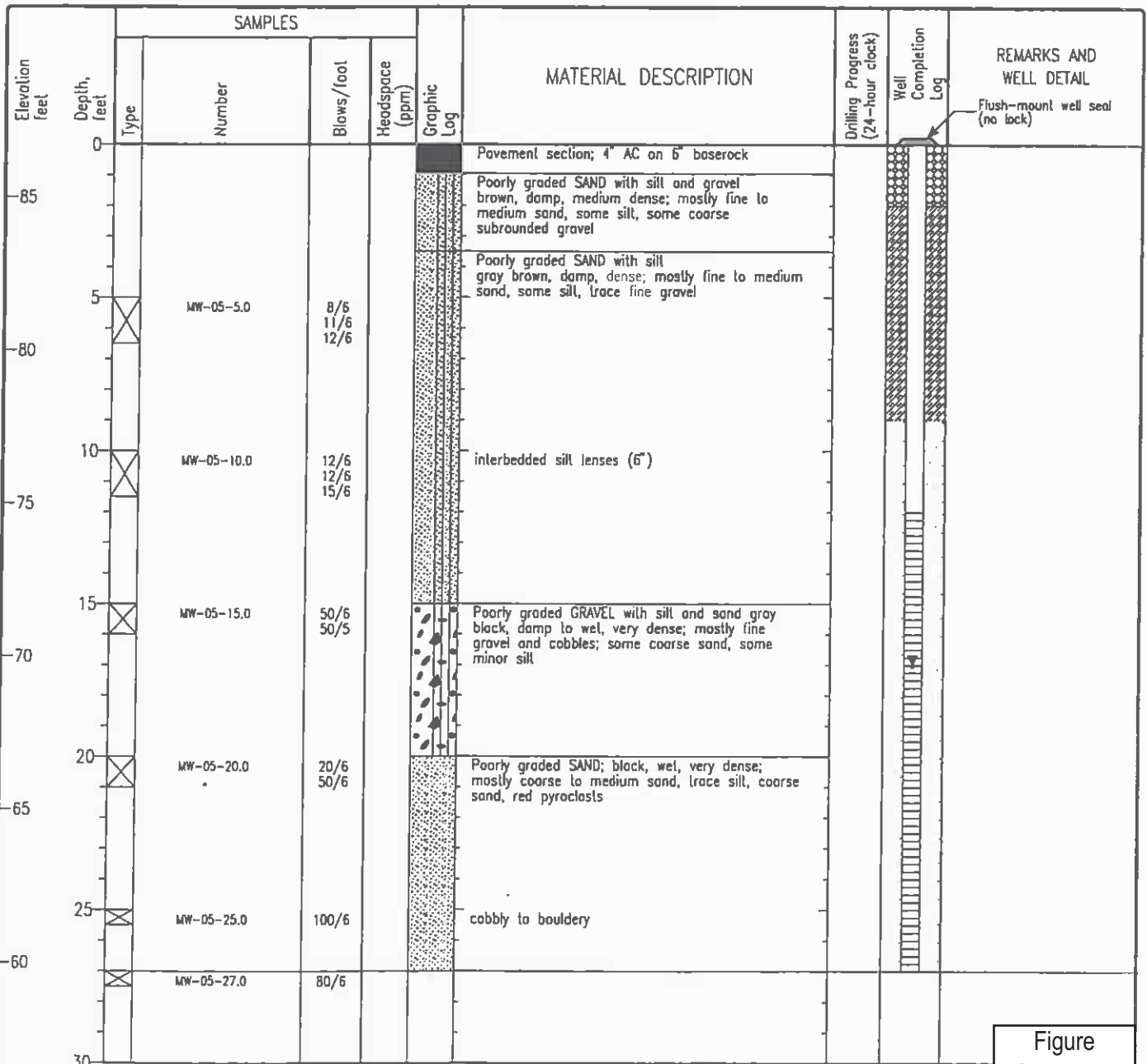


Figure C-261



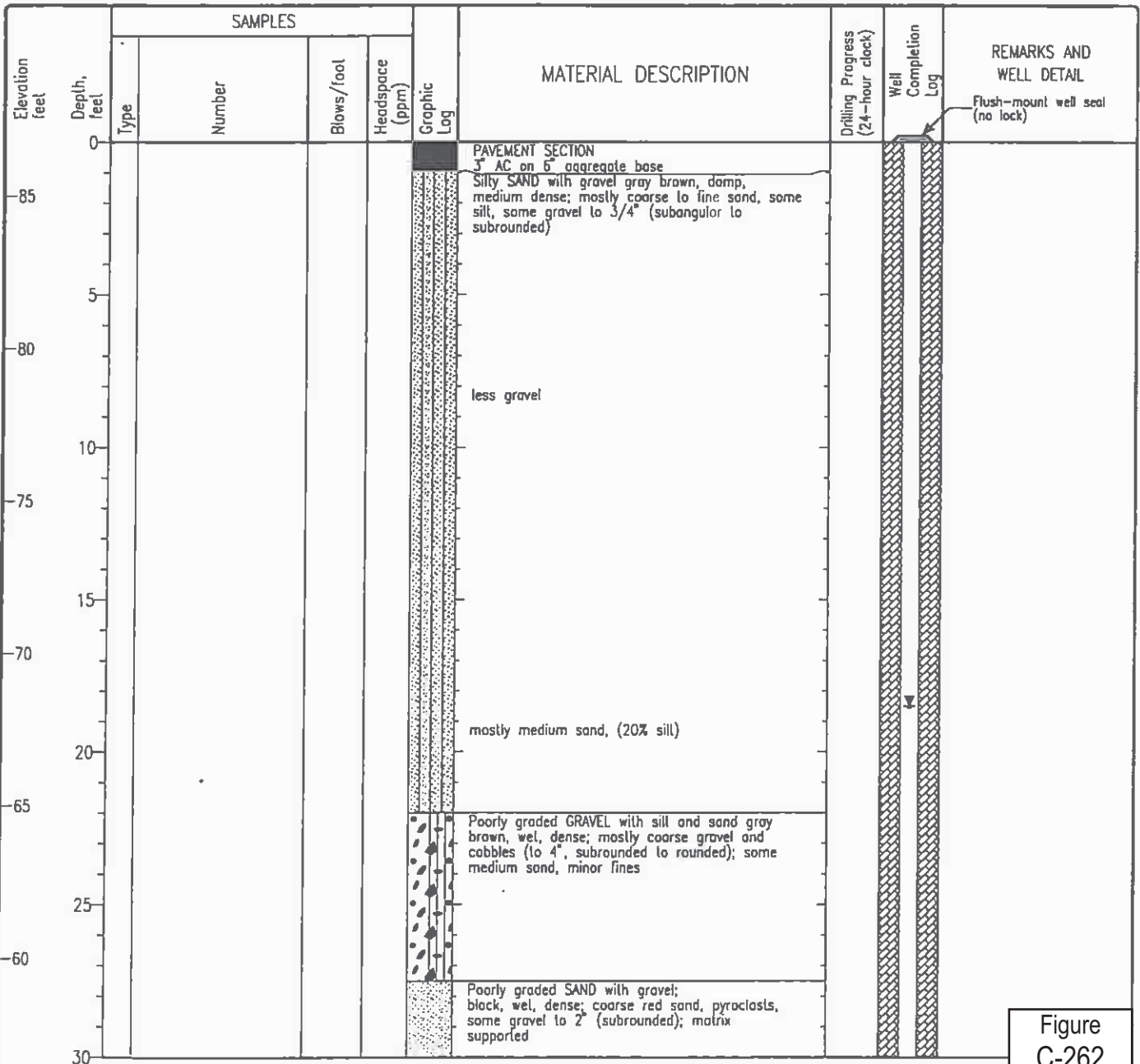
Report: EW\_1... Date Template: WC\_CORP1.GDT Printed: 10/21/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW008

Sheet 1 of 4

Date(s) Drilled	1/16/95	Logged By	T C Morin	Checked By	
Drilling Method	Dual Tube Percussion Hammer	Drill Bit Size/Type	12" OD	Total Depth Drilled (feet)	110.0
Drill Rig Type		Drilling Contractor	Layne Environmental Services	Hammer Weight/Drop (lbs./in.)	
Groundwater Level (feet)	18.5	Date Measured	01/17/95	Approx. Surface Elevation (feet)	86.8
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	2' 20/40 over 10/20 Silica Sand	Type/Thickness of Seal(s)	Bentonite Slurry	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					



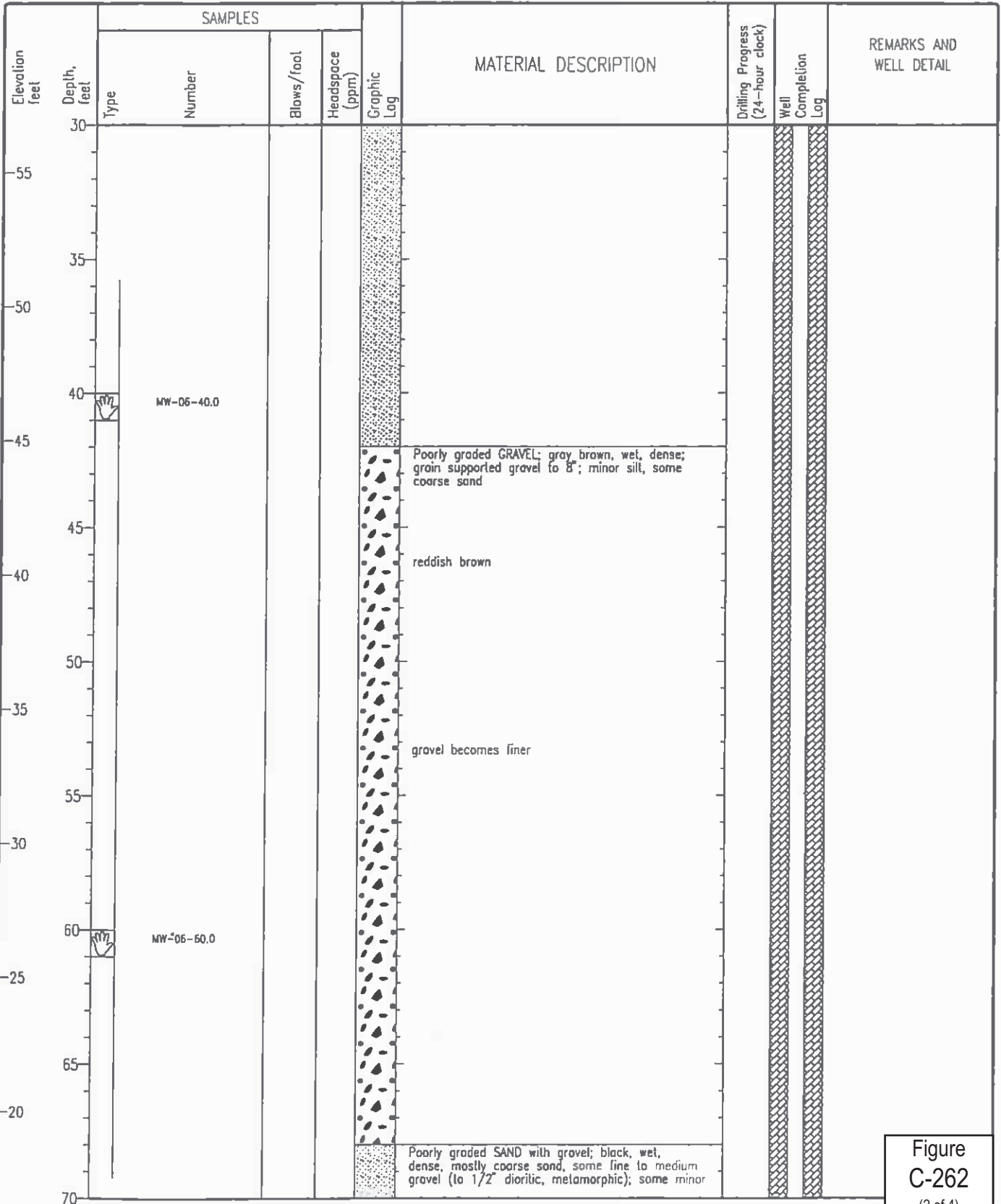
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Figure C-262  
(1 of 4)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW008

Sheet 2 of 4



Report: ENW\_1A - Project File: C:\PROGRAM-1\GANTW\PROJECTS\BOEING.GPJ; Data Template: MC\_CDPR1.GDT Printed: 10/21/98

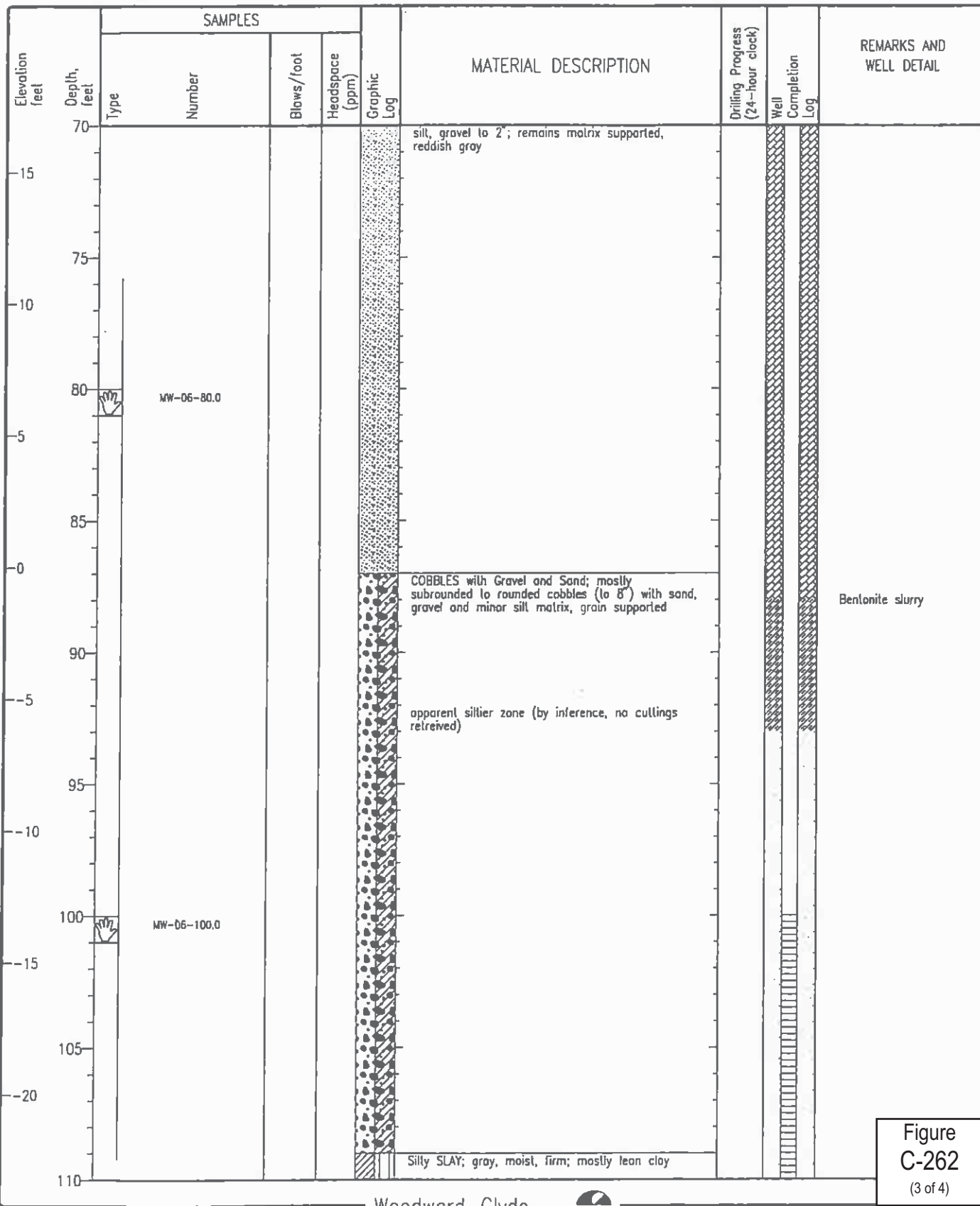
Figure  
 C-262  
 (2 of 4)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW008

Sheet 3 of 4



Report: ENW... \Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING\CP2; Date: Template: WC\_CORP1.GDT Printed: 10/21/08

Figure C-262 (3 of 4)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW008

Sheet 4 of 4

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
						with some silt; minor fine sand			
-25									
115									
-30									
120									
-35									
125									
-40									
130									
-45									
135									
-50									
140									
-55									
145									
-60									
150									

Report: C:\NW\_Tec\Project File\_C:\PROGRAM-1\GINTW\PROJECTS\BOEING GPJ; Date Template WC\_CORP1.GDT Printed 10/21/98

Figure  
 C-262  
 (4 of 4)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW019

Sheet 1 of 1

Date(s) Drilled	12/15/94	Logged By	TC Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	8 5/8" ID	Total Depth Drilled (feet)	24.0
Drill Rig Type		Drilling Contractor	Cascade Drilling Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	14	Date Measured	12/15/94	Approx. Surface Elevation (feet)	83.7
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Silica Sand	Type/Thickness of Seal(s)	1/4" Bentonite Pellets	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

Report: EN\_1A - Project File: C:\PROGRAMS\1\GINTWA\PROJECTS\BOEING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

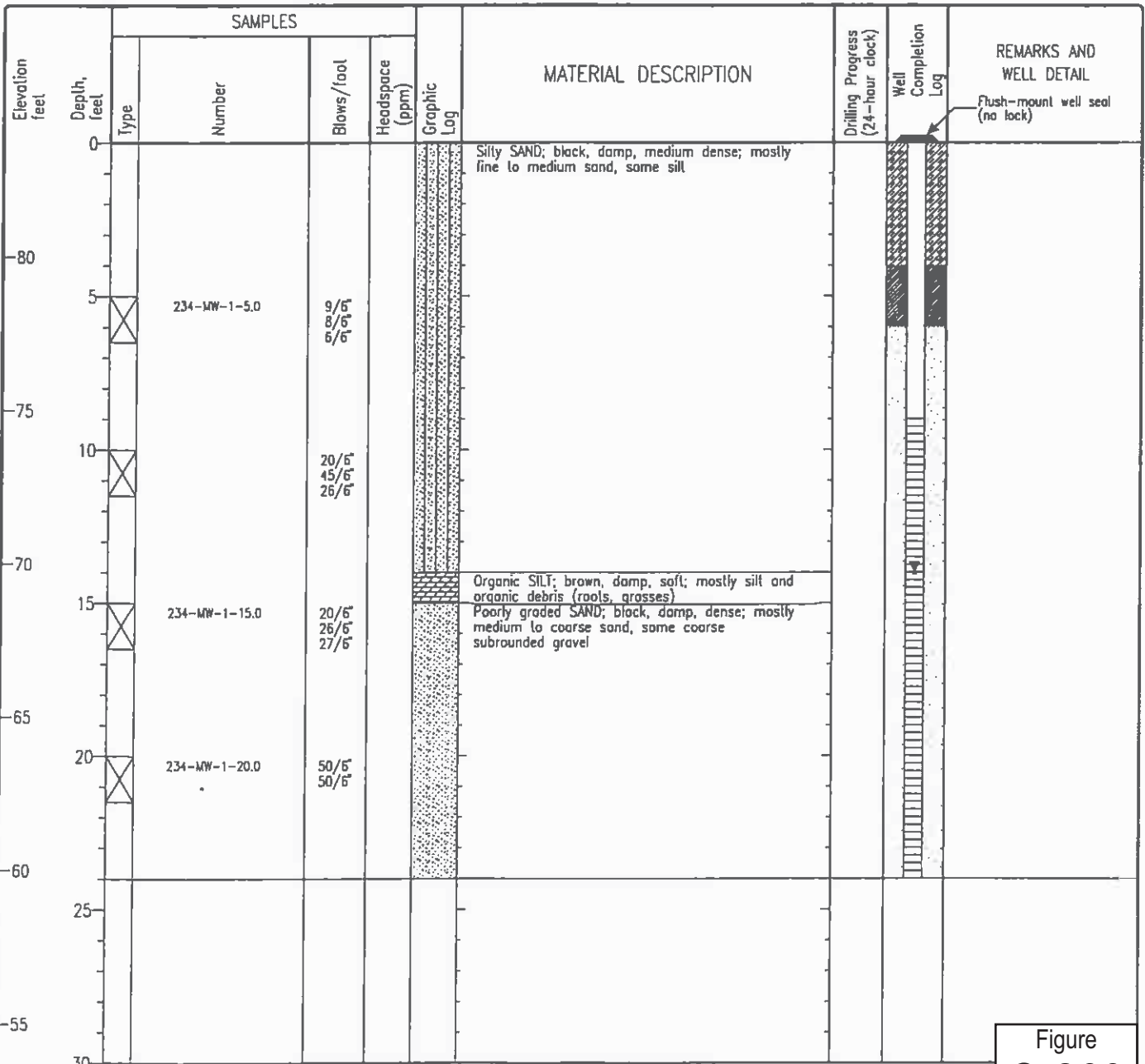


Figure  
C-263



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW031

Sheet 1 of 1

Date(s) Drilled	9/8/94	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type	8 5/8" OD	Total Depth Drilled (feet)	28.0
Drill Rig Type		Drilling Contractor	Cascade Drilling Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	18	Date Measured	09/08/94	Approx. Surface Elevation (feet)	85.9
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)		Screen Perforation	0.010" Factory Slotted PVC
Comments					

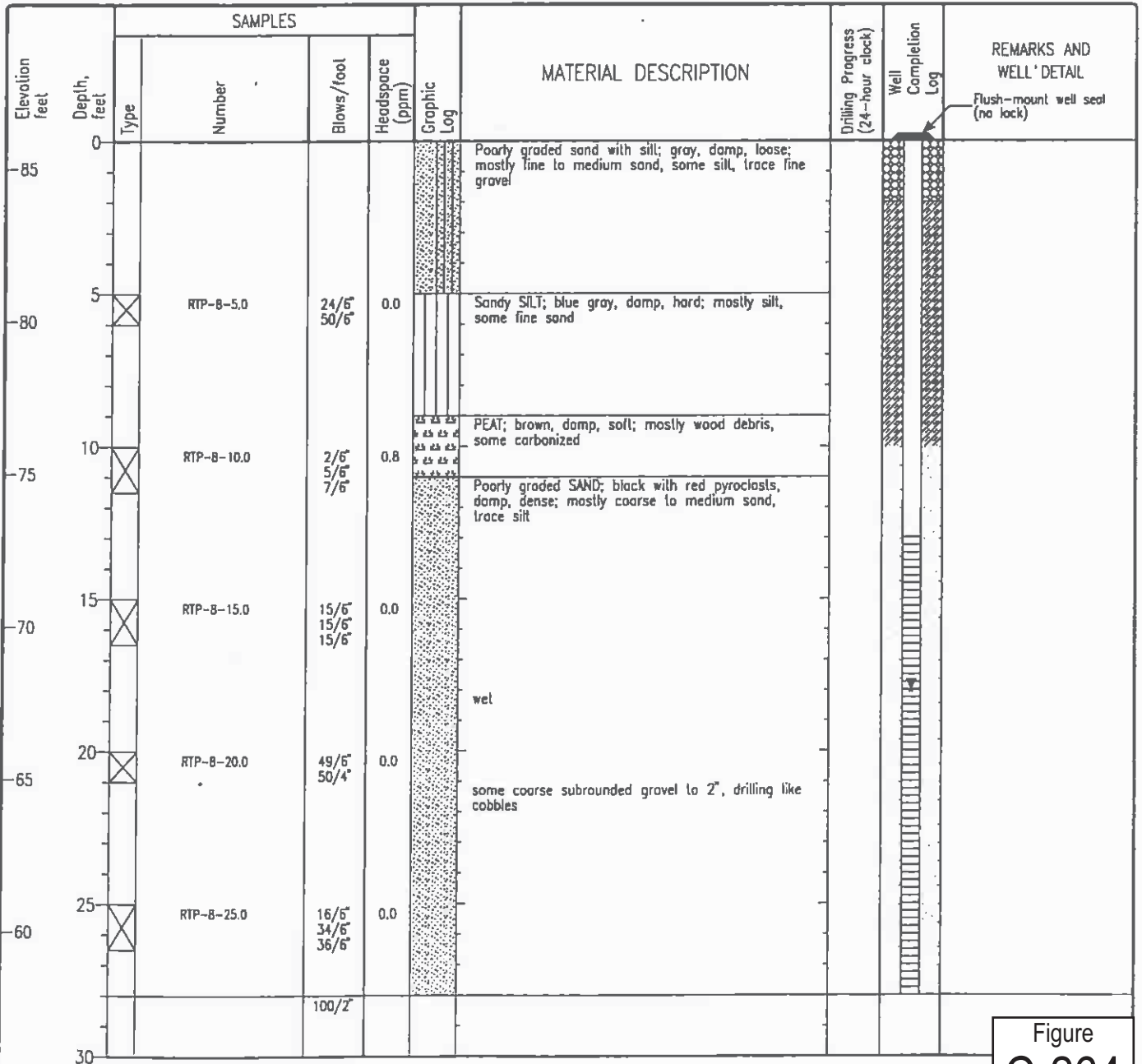


Figure C-264



Report: EW\_1A; Project File: C:\PROGRAMS\1\GINTW\PROJECTS\BOING CP.; Data Template: WC\_CORP1.GDT Printed: 10/21/98

Project: Boeing Auburn	Log of Boring AGW036 Sheet 1 of 1
Project Location: Auburn, Washington	
Project Number: 974009NB	

Date(s) Drilled	10/7/86	Logged By		Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	19.5
Drill Rig Type		Drilling Contractor		Hammer Weight/Drop (lbs/in.)	300lb/30"
Groundwater Level (feet)	15	Date Measured	10/8/1986	Approx. Surface Elevation (feet)	87.7
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	Coarse Sand Backfill		Type/Thickness of Seal(s)	Bentonite	
Comments					

Report: ENV\_1A; Project File: C:\PROGRAM\GINTVA\PROJECTS\BOEING.CPV; Data Template: WC\_CORP1.GDT Printed: 10/21/88

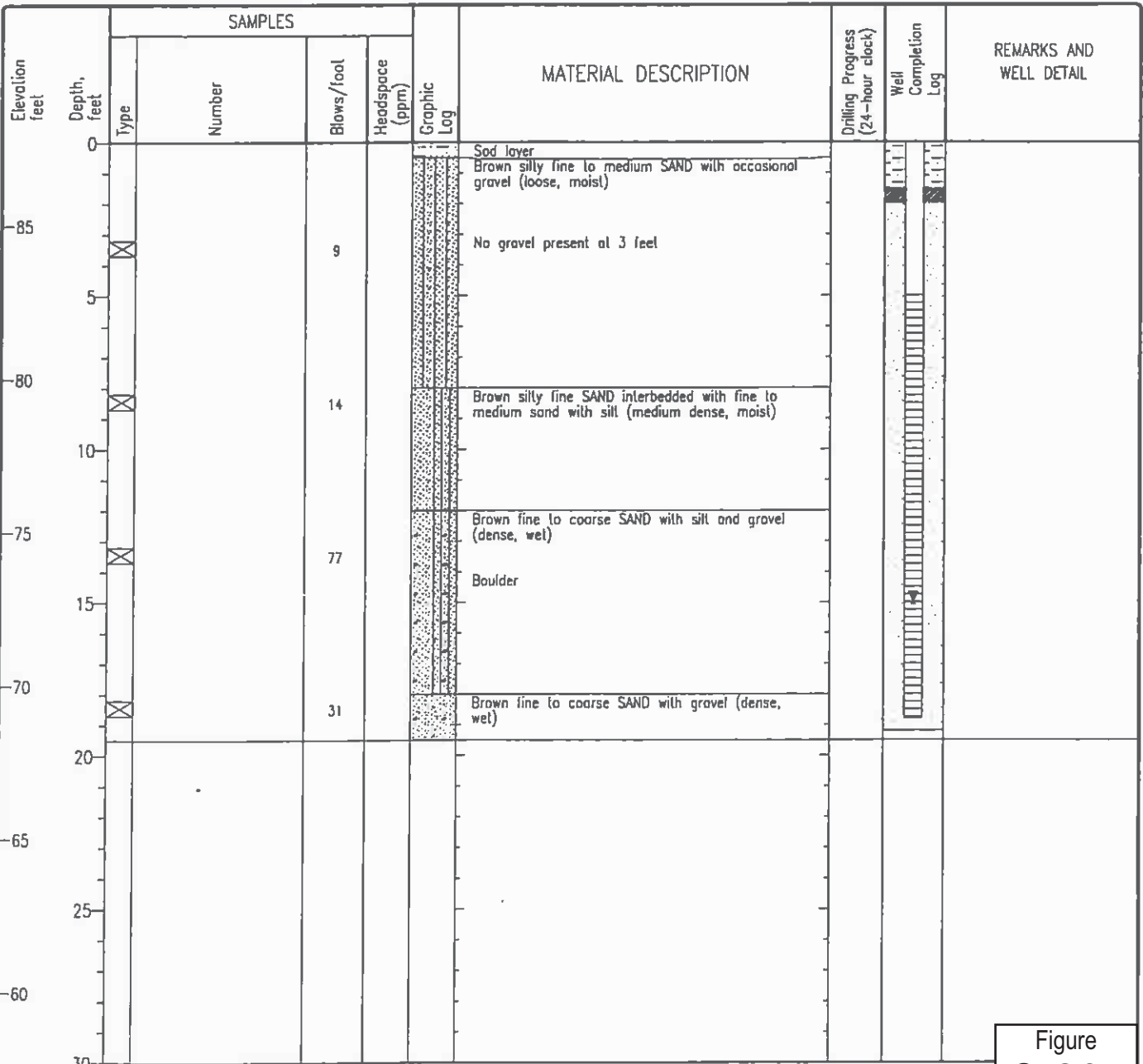
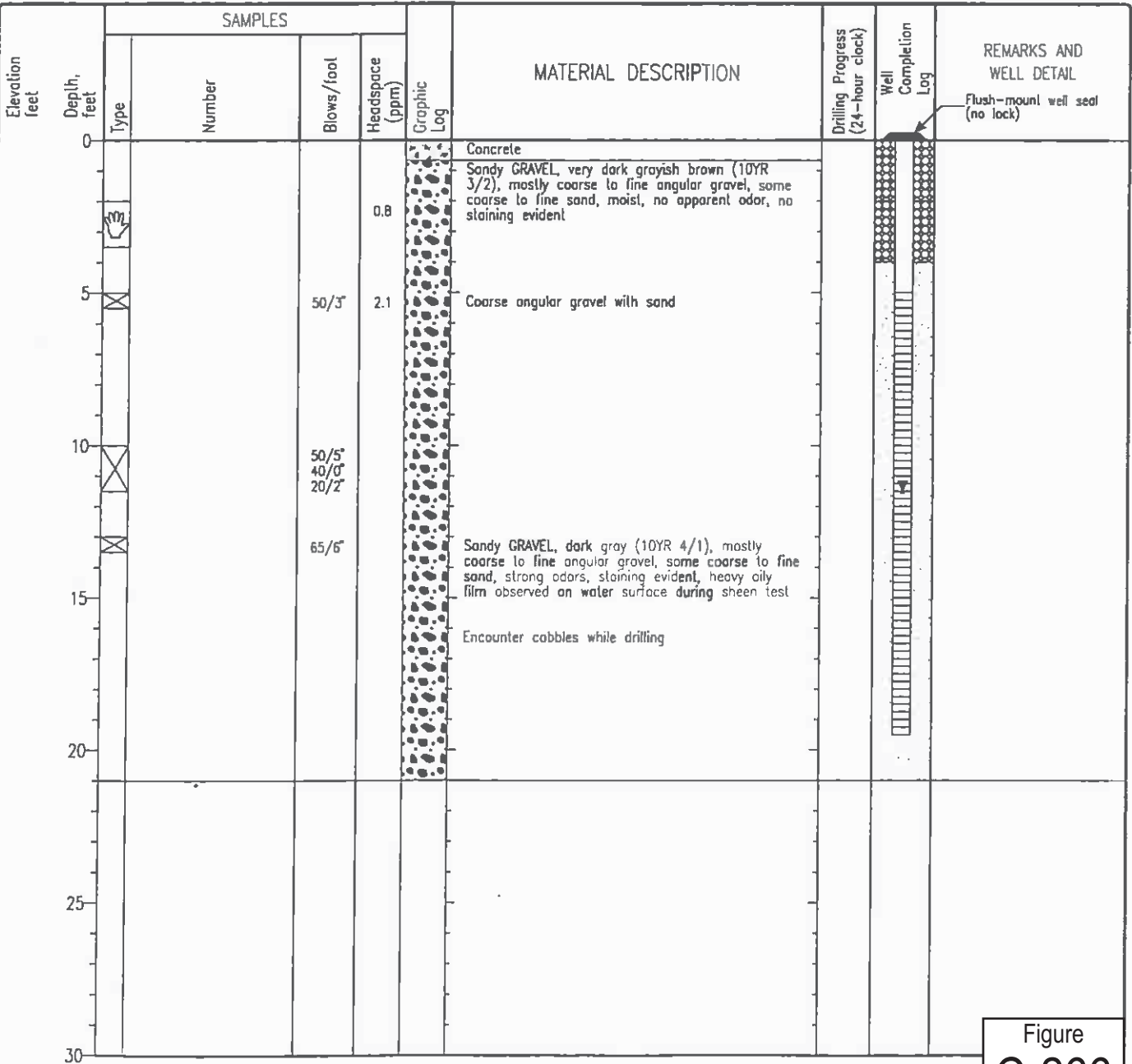


Figure  
**C-265**

Project: Boeing Auburn	Log of Boring AGW045 Sheet 1 of 1
Project Location: Auburn, Washington	
Project Number: 974009NB	

Date(s) Drilled	5/30/96	Logged By	D Dell'agnese	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	21.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs./in.)	140lb/30"
Groundwater Level (feet)	11.5	Date Measured	05/30/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	PVC
Type of Sand Pack	10/20 Colorado Silica Sand	Type/Thickness of Seal(s)	Bentonite	Screen Perforation	0.010" Slotted PVC
Comments					



Report: ENW\_1A... Project File: C:\PROGRAMS\1\GINTWA\PROJECTS\BOING.GPJ; Data Template: WC\_CORP1.GDT Printed: 10/21/98

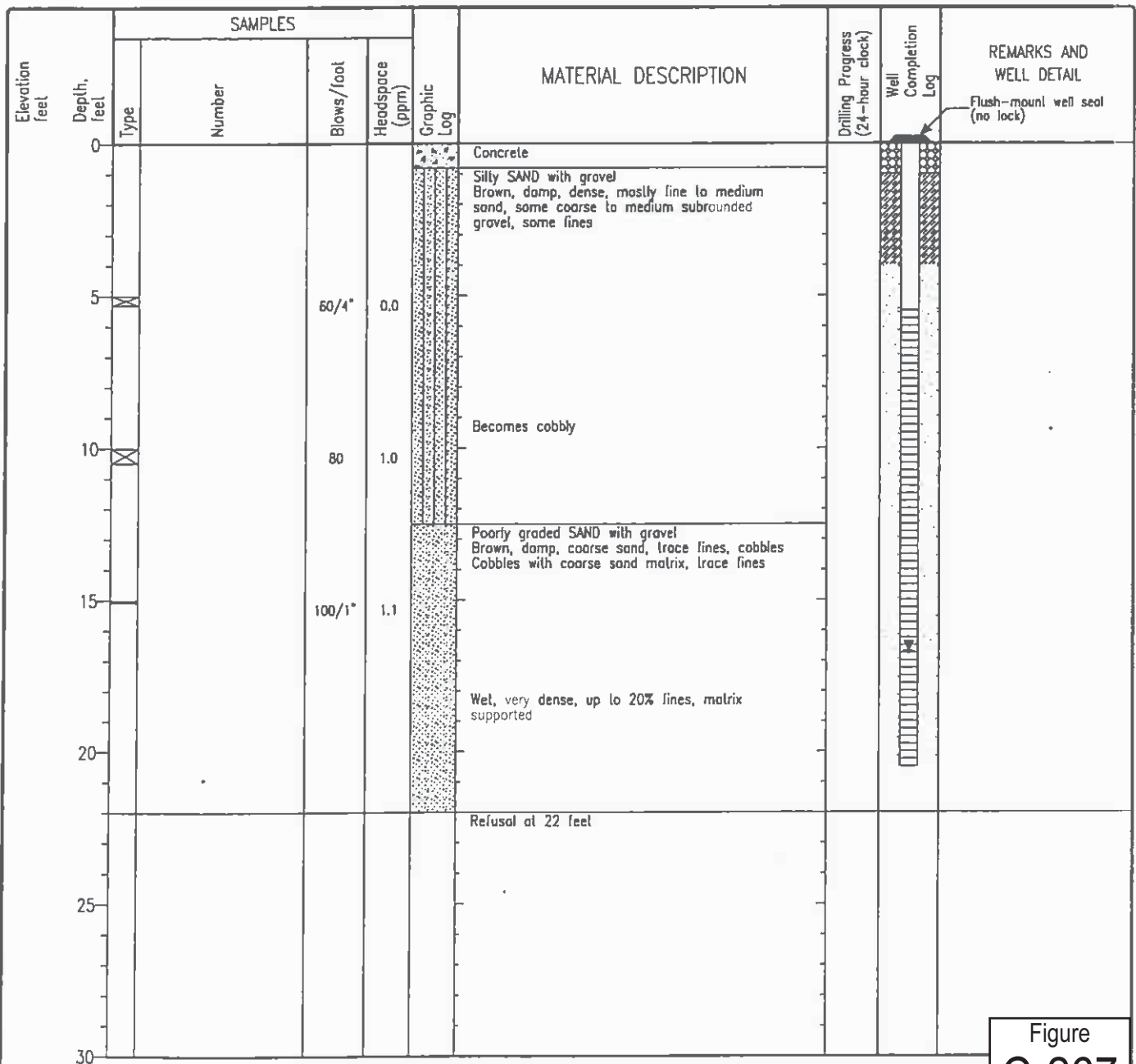
Figure  
C-266

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW051

Sheet 1 of 1

Date(s) Drilled	9/17/96		Logged By	T Marin		Checked By		
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type			Total Depth Drilled (feet)	22.0	
Drill Rig Type			Drilling Contractor	Cascade Drilling, Inc		Hammer Weight/Drop (lbs/in.)		
Groundwater Level (feet)	16.7		Date Measured	09/17/96		Approx. Surface Elevation (feet)		
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC		Screen Perforation	0.010" Factory Slotted SCH 40 PVC	
Type of Sand Pack	8/12 Prepacked Filler		Type/Thickness of Seal(s)	Bentonite Chips				
Comments								



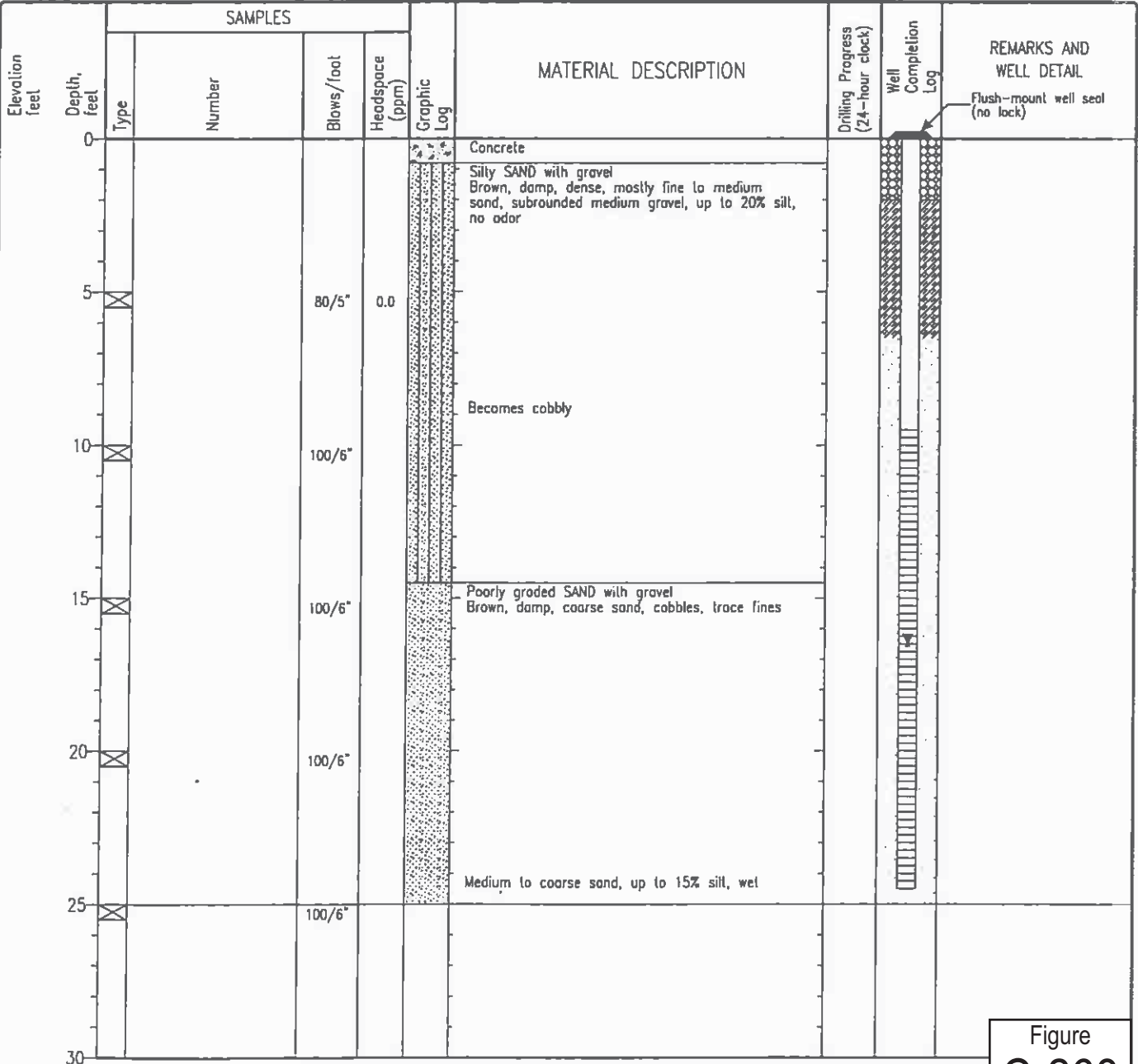
Report: ENV\_1A Project File C:\PROGRAM-1\GINTW\PROJECTS\BOEING.GPJ, Data Template:WC\_CORP.LGDT Printed: 10/12/96



Figure  
**C-267**

Project: Boeing Auburn	Log of Boring AGW052
Project Location: Auburn, Washington	Sheet 1 of 1
Project Number: 974009NB	

Date(s) Drilled	9/17/96	Logged By	T Marin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	09/17/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filter	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					



Report: ENM\_UK; Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING\GPI; Data Template: WC\_CORP1.GDT; Printed: 10/22/98

Figure  
C-268

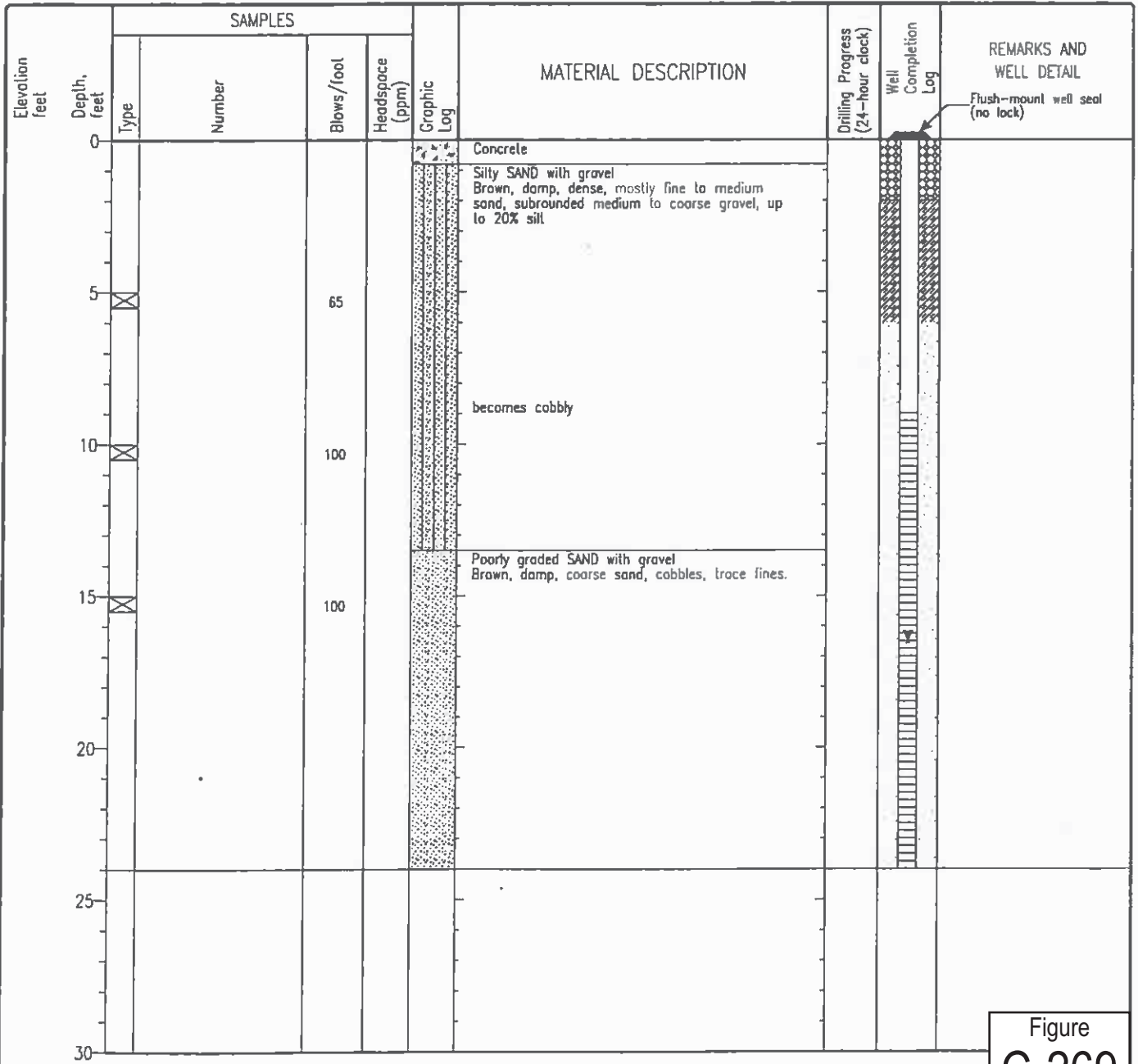


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW053

Sheet 1 of 1

Date(s) Drilled	9/18/96	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	24.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc.	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	09/18/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					



Report: ENW\_1A... Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOEING CP-1; Data Template: WC\_CORP1.CDT Printed: 10/22/98

Figure C-269



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW054

Sheet 1 of 2

Date(s) Drilled	10/1/96	Logged By	T Marin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	50.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	10/01/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	2' Bentonite Chips over Volclay Grout	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

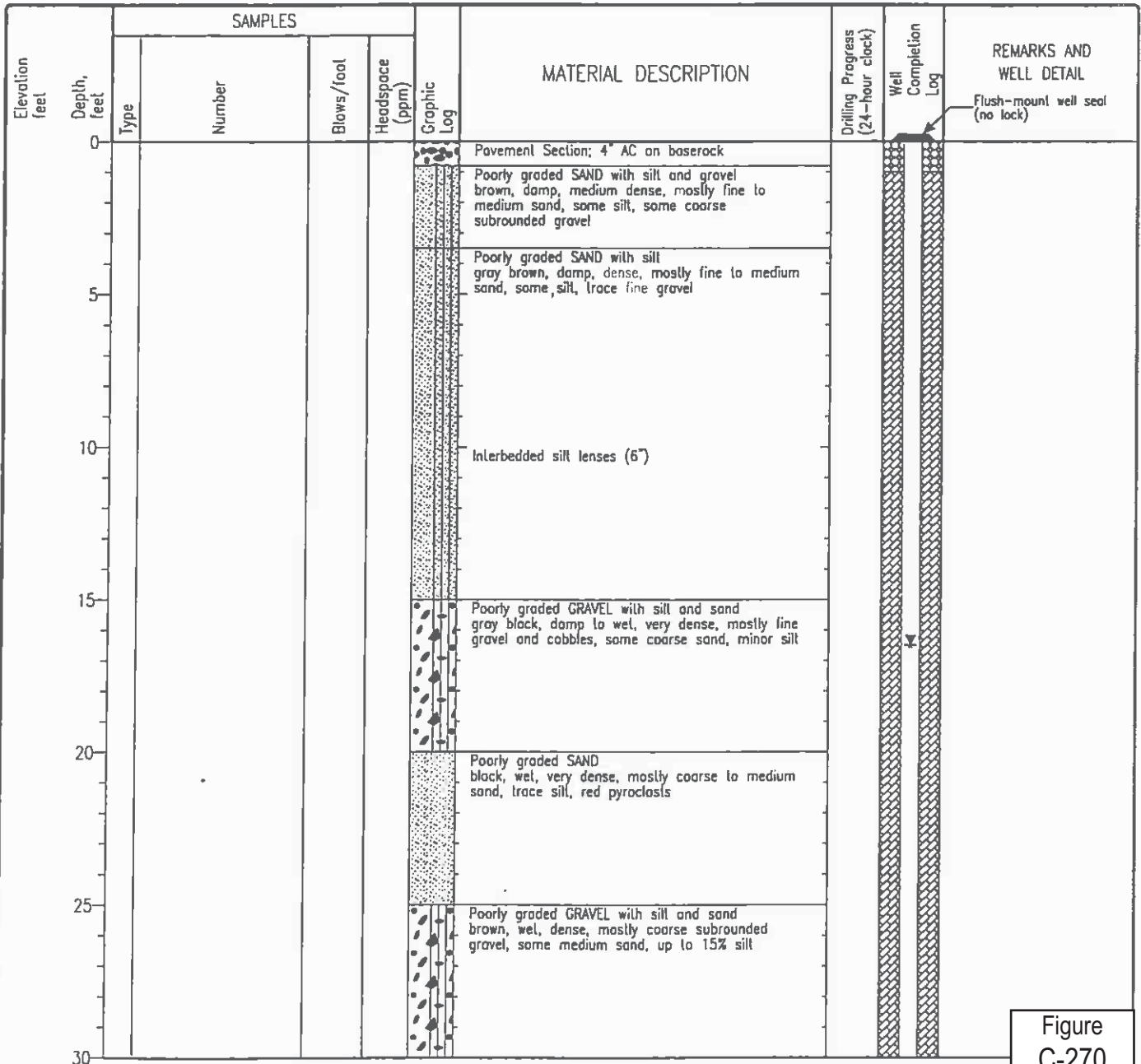


Figure C-270  
(1 of 2)

Report: ENW\_1A  
 Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOEING CP2; Data Template WC\_CORP1.CDT  
 Printed: 10/22/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW054

Sheet 2 of 2

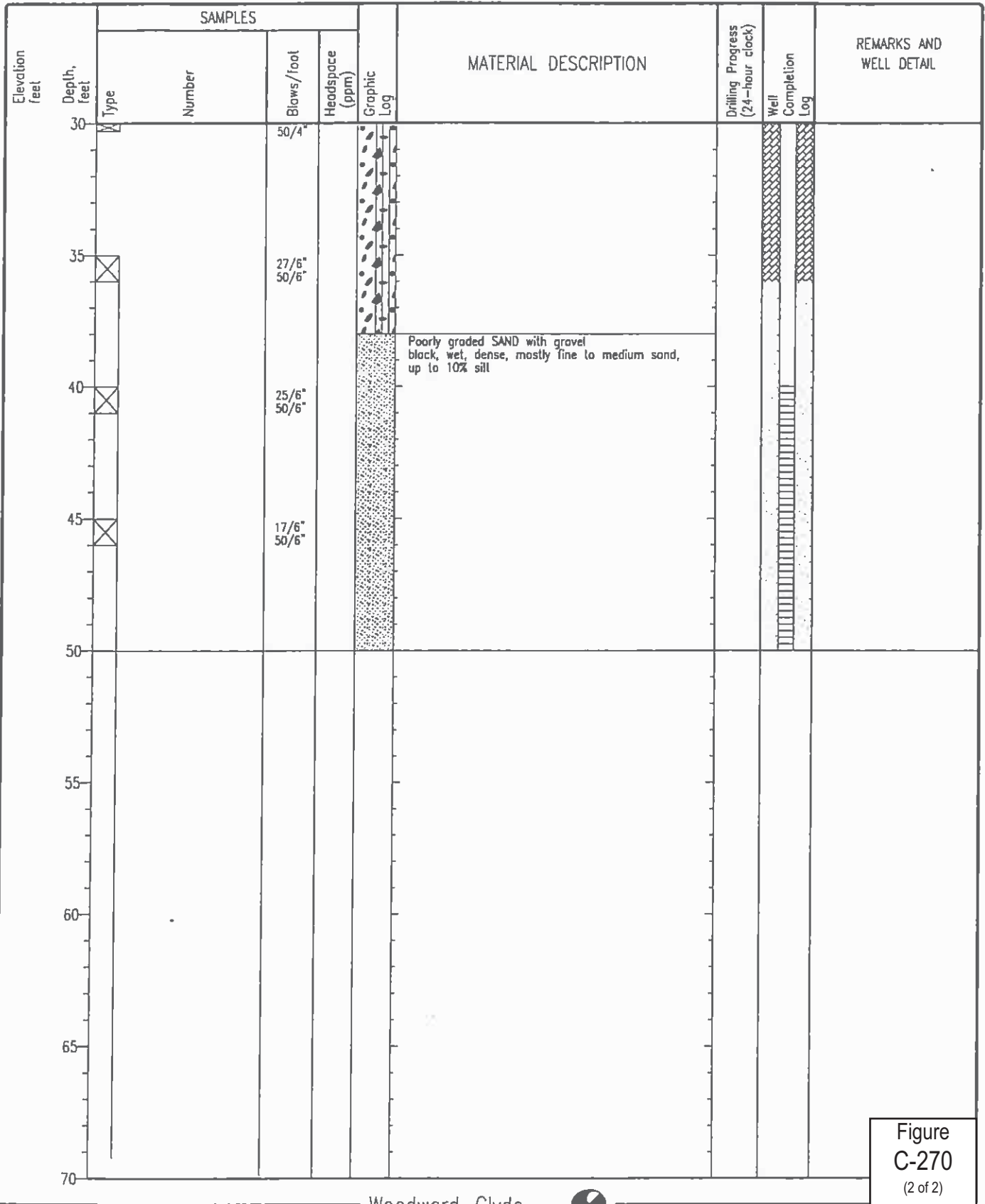


Figure  
 C-270  
 (2 of 2)





Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW055

Sheet 1 of 2

Date(s) Drilled	10/3/96	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	51.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	10/03/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	Diameter of Well (inches) 2	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	4' Bentonite Chips over Volclay Grout		
Comments					

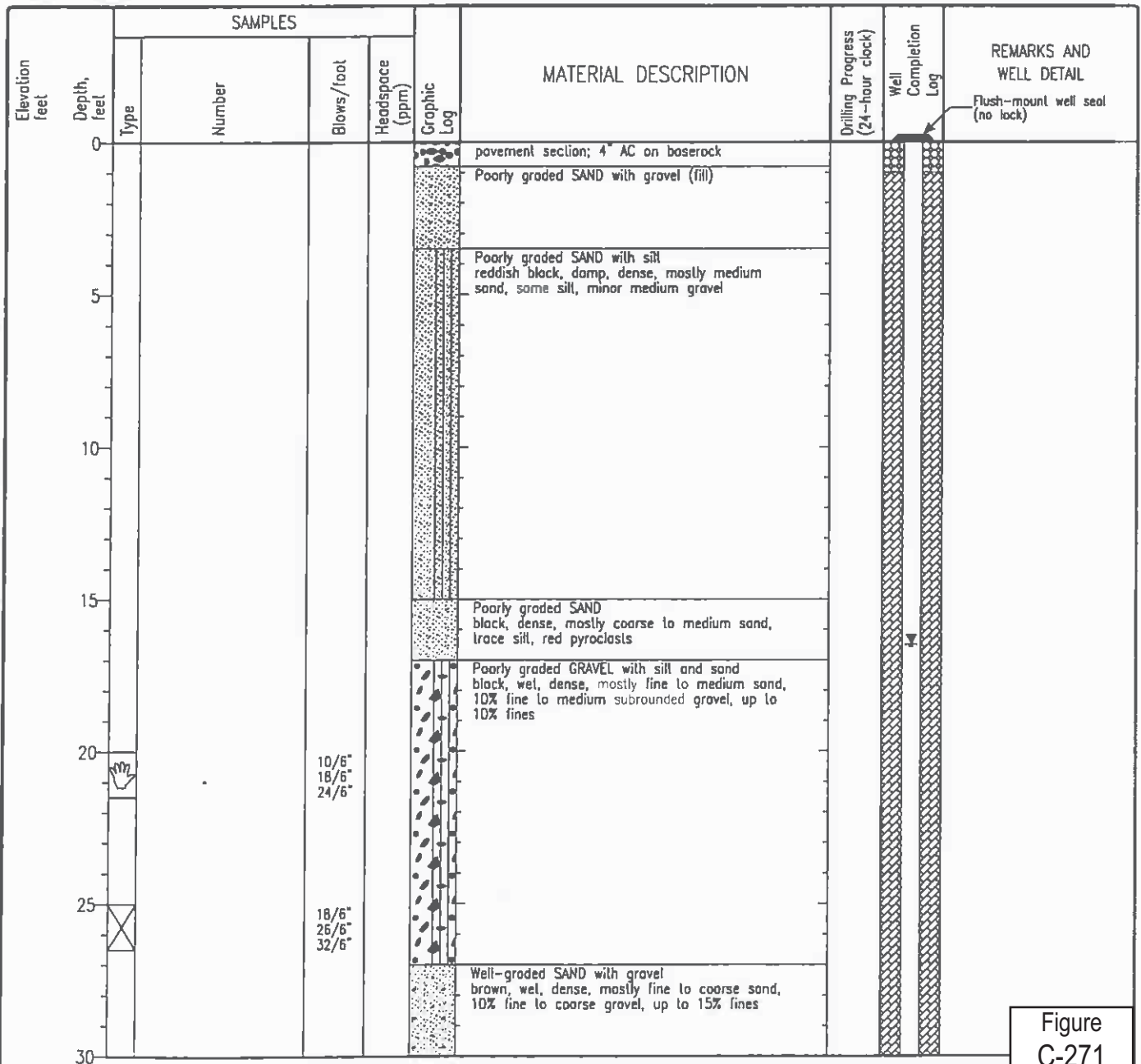


Figure C-271  
(1 of 2)

Report: ENR... Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING\GPI; Data Template: WC\_CORP1.CDT Printed 10/22/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW055

Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
30				24/6" 31/6" 37/6"					
35				50/6"		cobbles with gravel to 2"			
40				50/6"					
45				50/6" 50/2"					
50									
55									
60									
65									
70									

Report: ENR, Inc. Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOENC GP4 Data Temple.WC\_CORP1 CDT Printed: 10/22/98

Figure  
 C-271  
 (2 of 2)

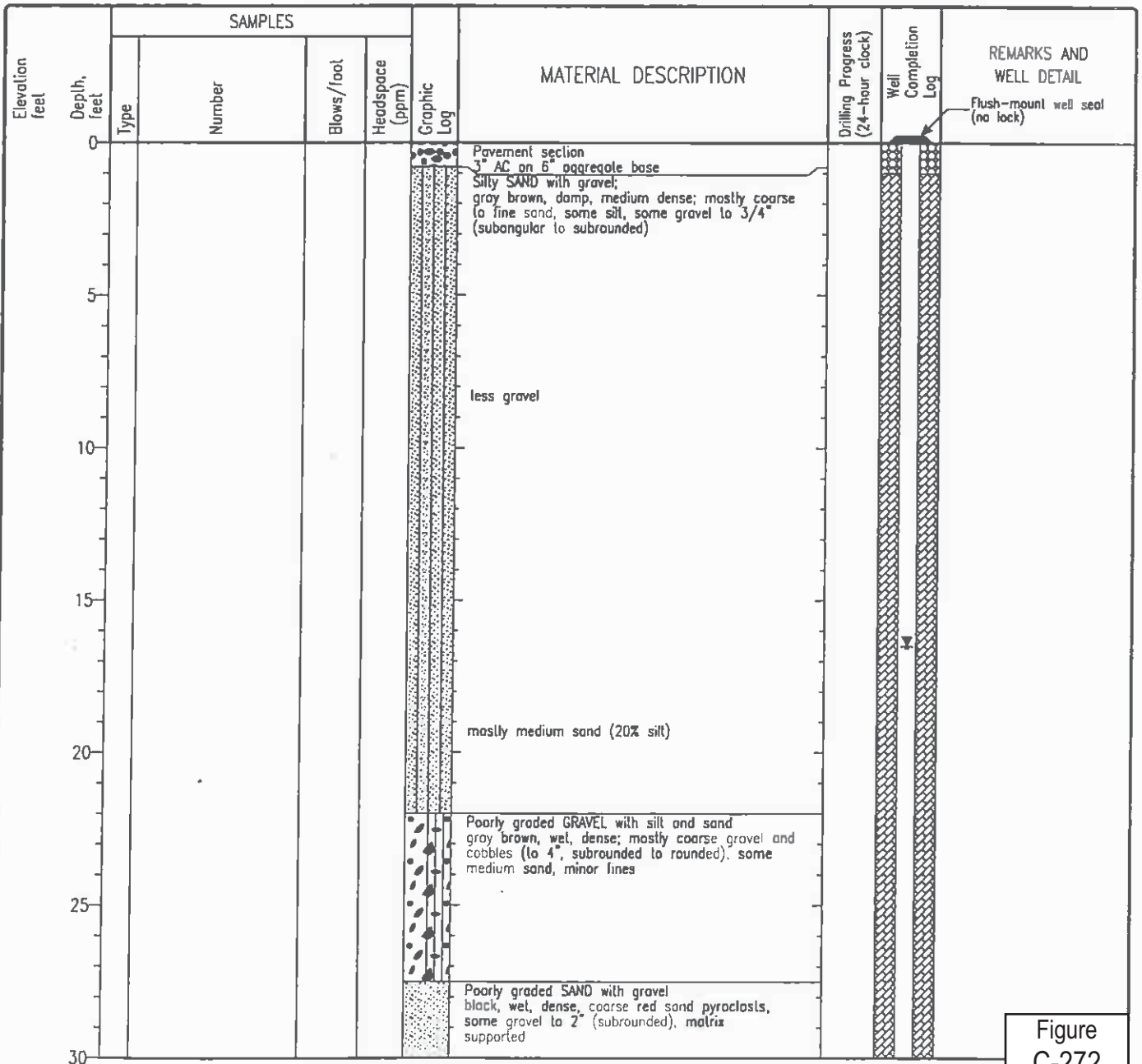


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW056

Sheet 1 of 2

Date(s) Drilled	10/1/96	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	50.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	10/01/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filter	Type/Thickness of Seal(s)	4' Bentonite Chips over Volclay Grout	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					



Report: ENR\_11 - project File: C:\PROGRAMS\1\GINTW\PROJECTS\BOENS\GPJ- Data Template WC\_CORP1.GDT Printed: 10/22/98

Figure C-272 (1 of 2)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW056

Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
30									
35									
40									
45						Poorly graded GRAVEL gray brown, wet, dense, grain supported gravel to 8", minor silt, some coarse sand			
50						reddish brown			
55									
60									
65									
70									

Report: ENV\_1A, Project File: C:\PROGRAM-1\CINTW\PROJECTS\BOEING\GFU, Data Template: WC\_CORP1.CDT, Printed: 10/22/98

Figure  
 C-272  
 (2 of 2)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW057

Sheet 1 of 2

Date(s) Drilled	10/1/96 - 10/2/96		Logged By	T Marin	Checked By	
Drilling Method	Hollow Stem Auger		Drill Bit Size/Type		Total Depth Drilled (feet)	50.0
Drill Rig Type			Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5		Date Measured	10/02/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler		Type/Thickness of Seal(s)	2.5' Bentonite Chips over Volclay Grout		
Comments						

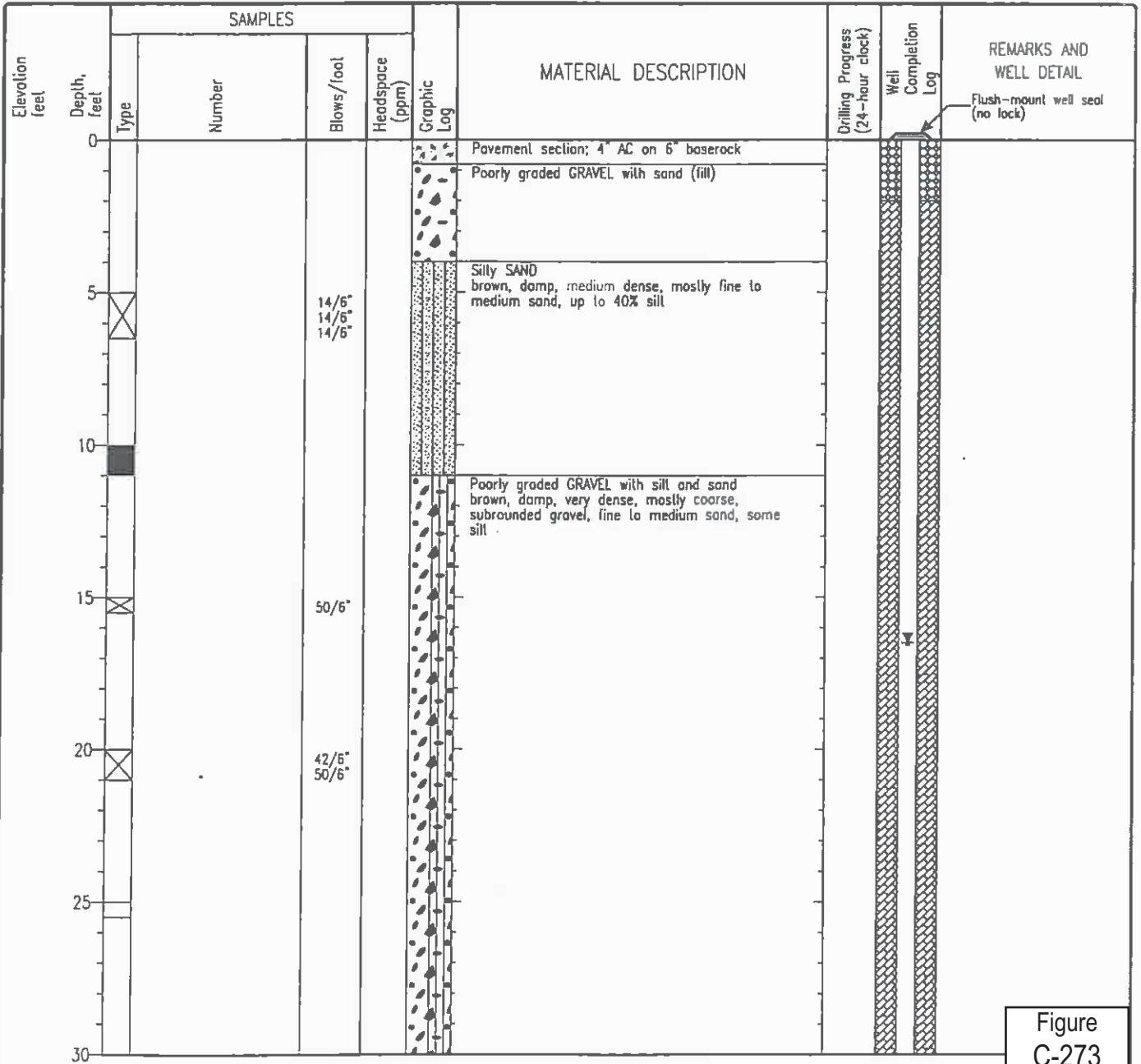


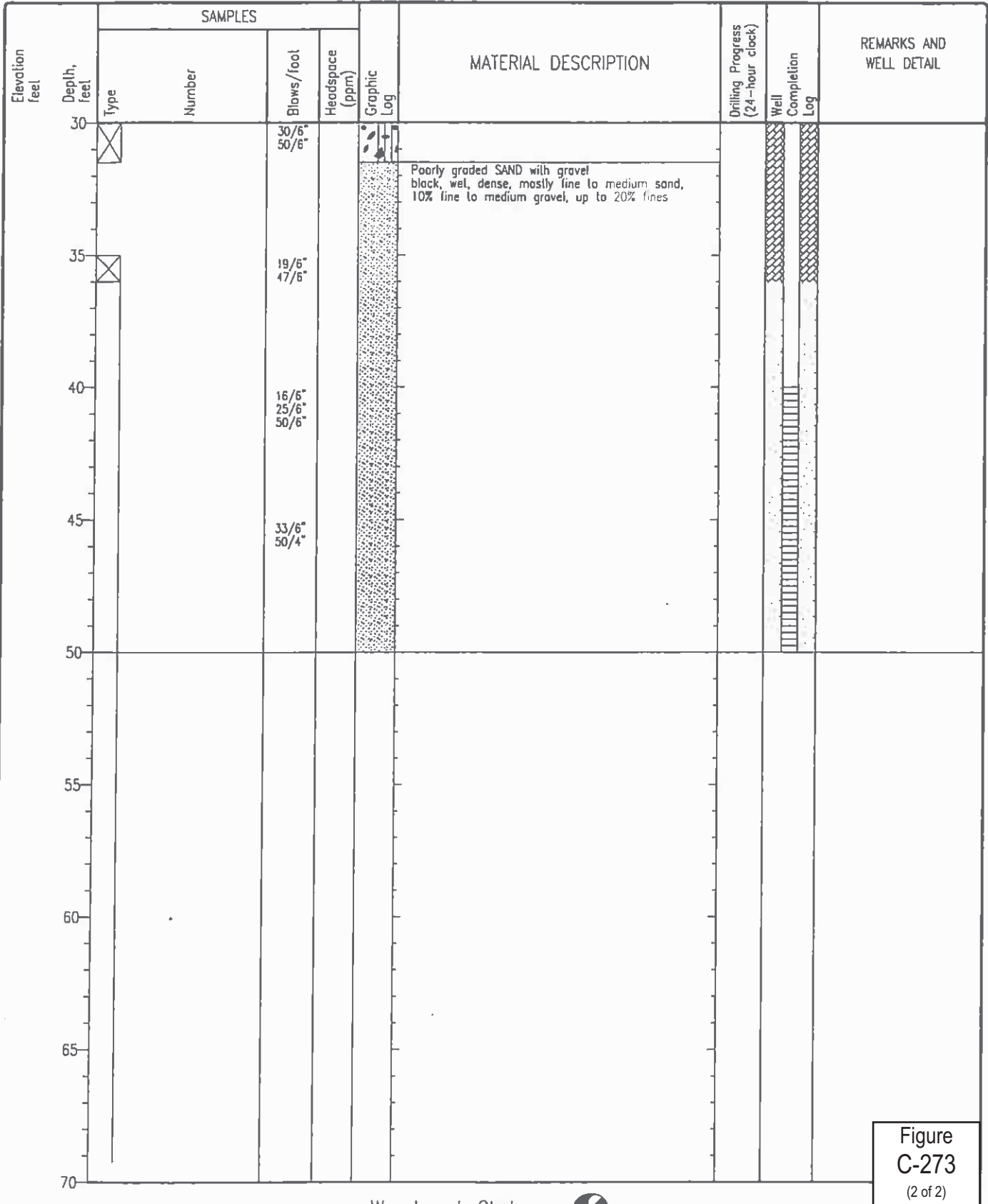
Figure C-273  
(1 of 2)

Report: ENW\_1A... Project File: C:\PROGRAM-1\GINTM\PROJECTS\BOEING.GPJ; Data Template: MC\_CORP1.GDT Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW057

Sheet 2 of 2



Report: EW\_1A... Project File C:\PROGRAM-1\GINTW\PROJECTS\BOEING.GPJ; Data Template: MC\_CORP1.GDT Printed: 10/22/98

Figure  
 C-273  
 (2 of 2)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW058

Sheet 1 of 1

Date(s) Drilled	10/2/96	Logged By	T Morin	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	10/02/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

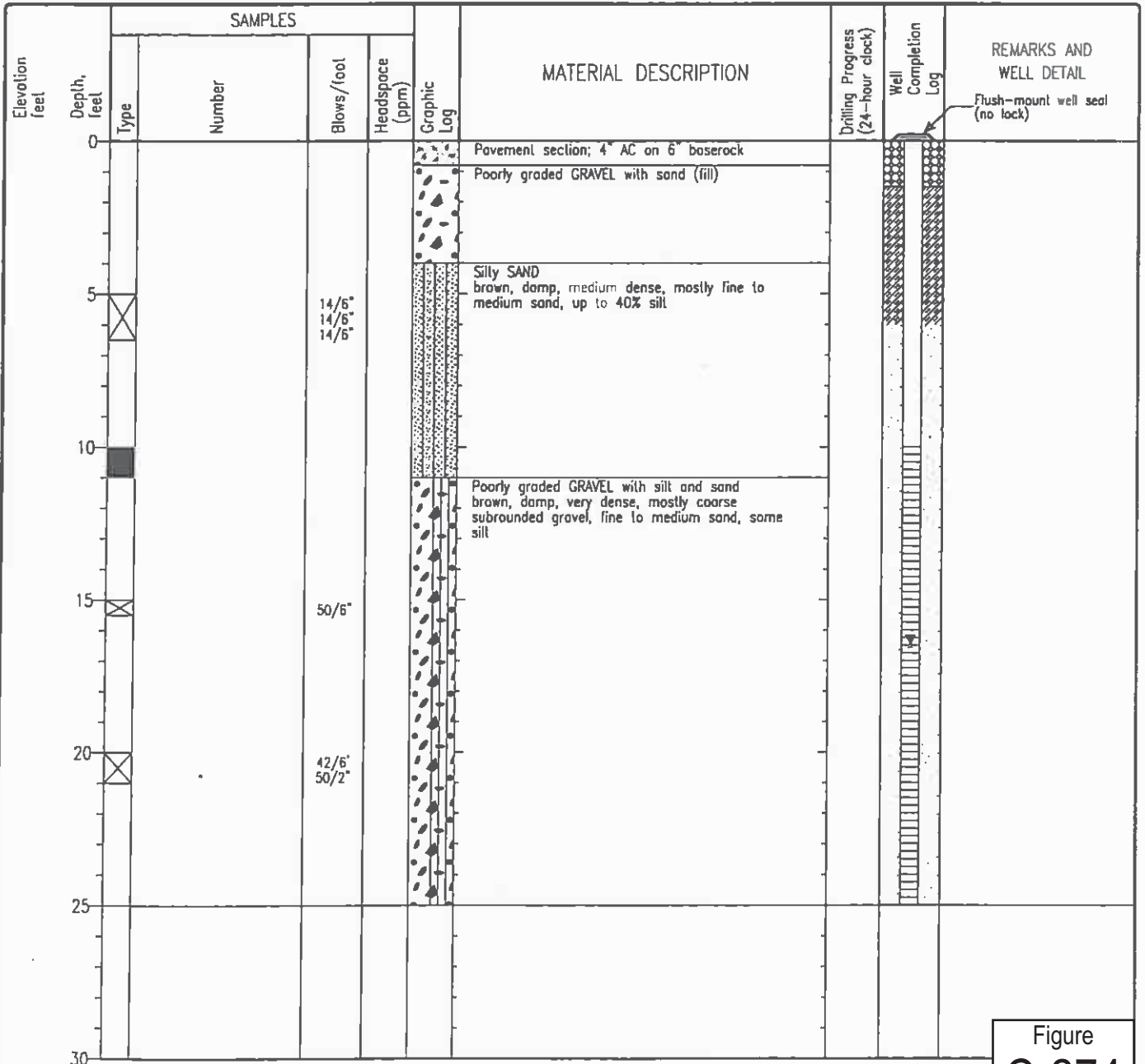


Figure C-274



Report: EW\_14; Project File: C:\PROGRAMS\GINTW\PROJECTS\BOEING.OPJ; Data Template: WC\_CORP1.GDT; Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW059

Sheet 1 of 1

Date(s) Drilled	10/3/96	Logged By	T Morin	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	15.5	Date Measured	10/03/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

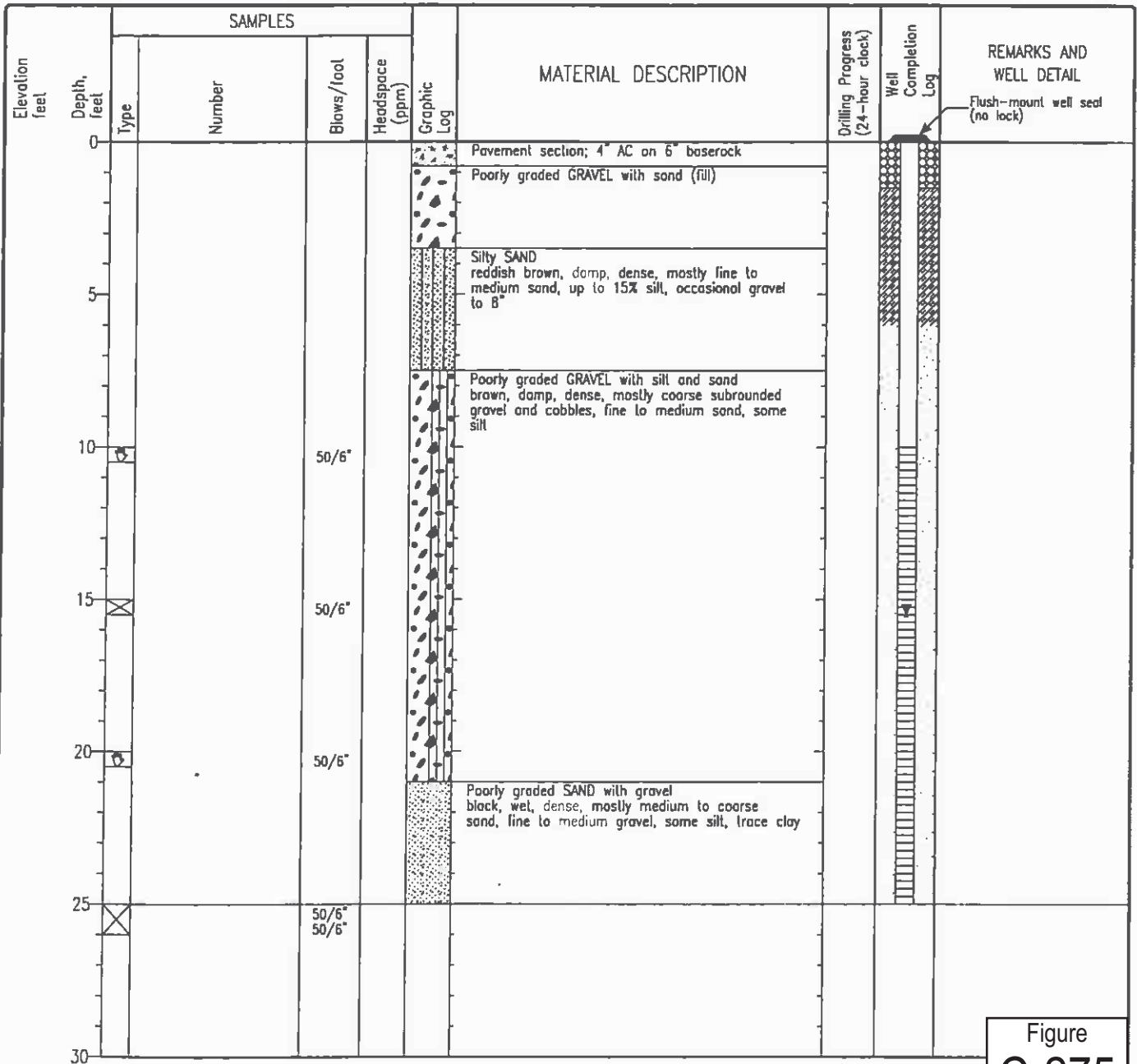


Figure C-275

Report: EW\_1A - Project File C:\PROGRAMS\GINTW\PROJECTS\BOEING\CP4 - Data Template\WC\_CORP1.GDT Printed: 10/22/96



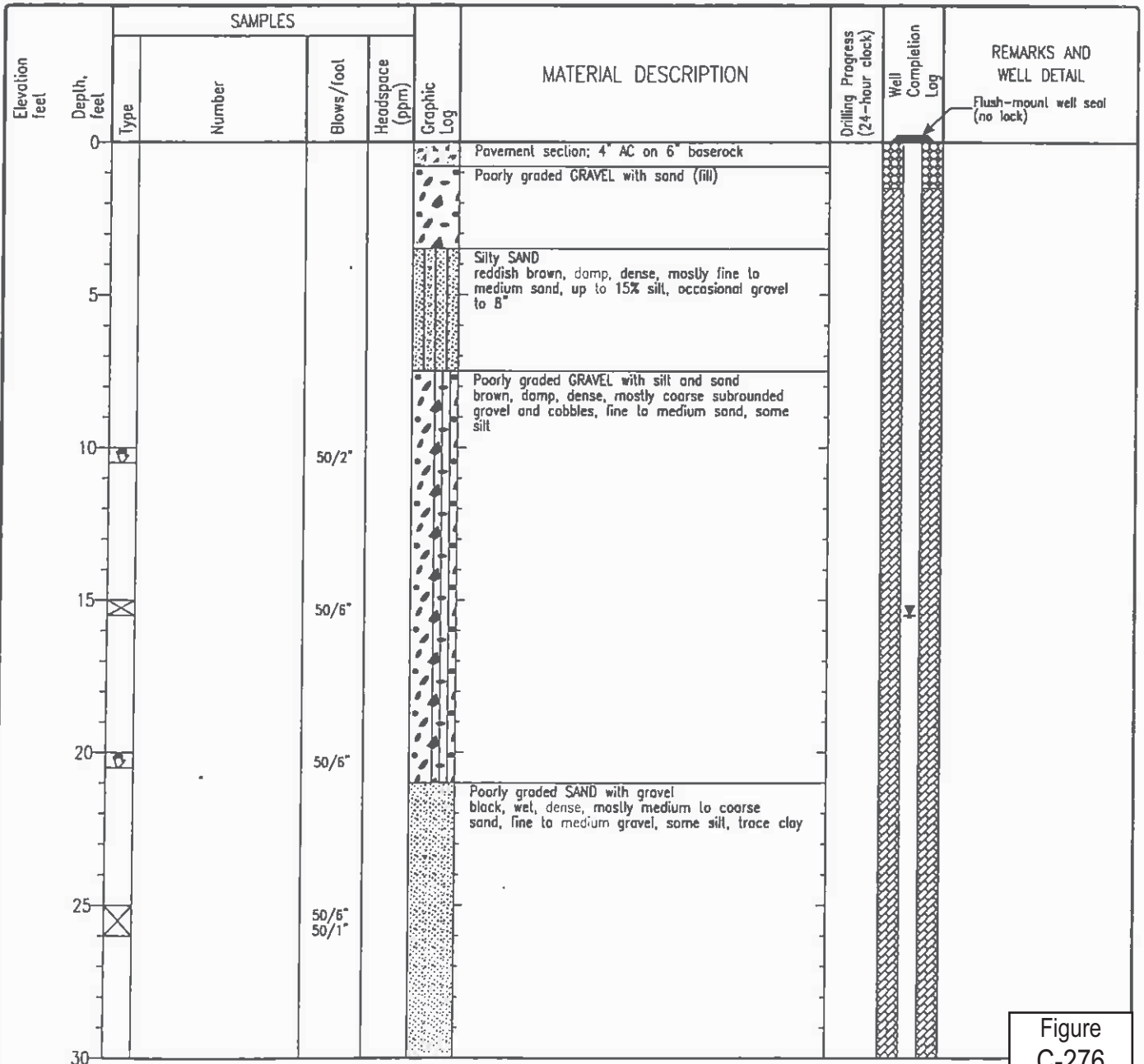


Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW060

Sheet 1 of 2

Date(s) Drilled	10/3/96	Logged By	T Morin	Checked By	
Drilling Method		Drill Bit Size/Type		Total Depth Drilled (feet)	50.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	15.5	Date Measured	10/03/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	4' Bentonite Chips over Valclay Grout	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					



Report: ENW\_1A; File: C:\PROGRAM-1\GINTVA\PROJECTS\BOILING.GPJ; Data Template: WC\_CORP1.GDT; Printed: 10/22/98

Figure C-276  
(1 of 2)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW060

Sheet 2 of 2

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
30		☉		50/6"					
35		⊗		50/0"					
40		⊗		50/6" 50/2"					
45		☉		50/0" 50/2"					
50									
55									
60									
65									
70									

Report: EMV\_1A, Project File: C:\PROGRAMS\1\GINTVA\PROJECTS\BOEING.CP, Data Template: WC\_CORP1.GDT, Printed: 10/22/98

Figure C-276  
(2 of 2)

# Boring & Well Construction Log

Kennedy/Jenks Consultants

BORING LOCATION EAST SIDE OF 17-05 BUILDING		Boring/Well Name AGW061	
DRILLING COMPANY CASCADE DRILLING INC.	DRILLER BRIAN	Project Name BOEING AUBURN	
DRILLING METHOD HOLLOW STEM AUGER (CME 75)	DRILL BIT(S) SIZE: 6 5/8" OD	Project Number 956102.02	
ISOLATION CASING N/A	FROM 10 FT.	ELEVATION AND DATUM	TOTAL DEPTH 50.0
BLANK CASING 2" O.D. SCH. 40 PVC	FROM 0.0 TO 39.0 FT.	DATE STARTED 10/02/1996	DATE COMPLETED 10/02/1996
PERFORATED CASING 2" SCH. 40 PVC, 0.010" FACTORY SLOTTED	FROM 39.0 TO 49.0 FT.	INITIAL WATER DEPTH (FT) 16.5	
SIZE AND TYPE OF FILTER PACK #8/12 PREPACKED FILTER, 0.010" SLOTTED	FROM 35.0 TO 49.0 FT.	LOGGED BY T. MORIN	
SEAL VOLCLAY GROUT (UPPER 3 FEET BENT. CHIPS)	FROM 1.5 TO 35.0 FT.	SAMPLING METHODS SPLIT SPOON & SHELBY	WELL COMPLETION SURFACE HOUSING <input type="checkbox"/> STAND PIPE _____ FT.
GROUT CEMENT	FROM 0.0 TO 1.5 FT.		

SAMPLES			DEPTH (FEET)	SAMPLE NO.	WELL CONSTRUCTION	LITHOLOGY	USCS LOC	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOVERY (FEET)	FLUCTUATION RESIST (BLONS/S IN)						
								Pavement Section; 4" AC on 6" baserock
S	1.3	20 14 12	5			SM		BBty SAND with gravel grayish brown, damp, medium dense, mostly fine to medium sand, 20 to 30% silt, up to 10% fine to medium subrounded gravel
S	1.2	22 14 36	10					Poorly graded SAND black brown, damp to moist, dense, 80% medium sand, trace silt, trace gravel At 12 feet, with gravel
S	0.8	20 50	15			SP		At 17 feet, coarse gravel to cobbles
S	0.1	50/0	20					
S	0.4	50/2	25			GP		Poorly graded GRAVEL with sand Gray to brown, wet, very dense, mostly medium to coarse subrounded gravel, trace silt
			30			SP		Poorly graded SAND with gravel black, wet, dense, mostly medium to coarse sand, some gravel, occasional cobbles

Figure C-277 (1 of 2)

# Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name BOEING AUBURN

Project Number 956102.02

Boring/Well Name AGWD61

SAMPLES			DEPTH (FEET)	SAMPLE NO.	WELL CONSTRUCTION	LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOVERY (FEET)	PORE PRESSURE RESIST (PSI/5 FT)						
S	0.3	25 50	35				SP	Poorly graded SAND with gravel black, wet, dense, mostly medium to coarse sand, some gravel, occasional cobbles  From 32 to 34 feet, cobbly  At 36 feet, drilling like sand
S	0.0	50/1						
S	0.0	50/1	40				GP	Poorly graded GRAVEL with sand gray, wet, very dense, mostly coarse subrounded gravel and cobbles, fine to coarse sand  At 49 feet, fewer cobbles
S	0.0	50/1	45					
S	0.0	50/1	50					

**Notes:**

1. 2-inch diameter, 0.010-inch machine-slotted Monoflex well screen, prepacked with #8/12 sand within a 4-inch diameter, 0.010-inch machine-slotted outer screen.
2. Natural formation collapsed around prepack to 39.5 feet bgs. Annular space backfilled with #10/20 silica sand from 35 to 39.5 feet.

Project Boeing Auburn  
 Project Location Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW062

Sheet 1 of 1

Date(s) Drilled	10/2/96	Logged By	T Morin	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	25.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	16.5	Date Measured	10/02/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	8/12 Prepacked Filler	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Factory Slotted SCH 40 PVC
Comments					

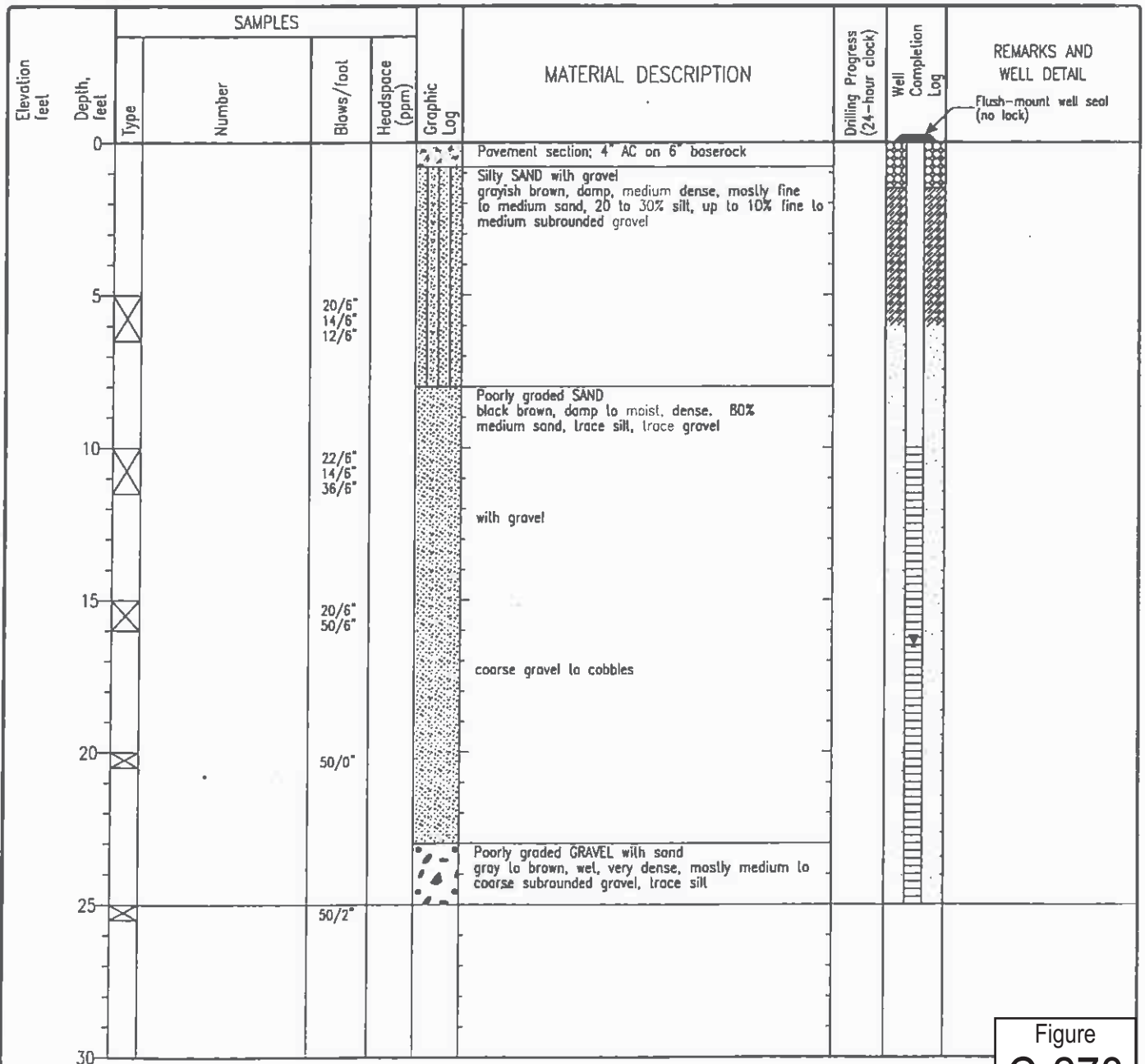


Figure  
C-278

Report ENW-1A, Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOILING OP-1; Data Template WC\_CORP1.GDT Printed: 10/22/98

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW063

Sheet 1 of 4

Date(s) Drilled	11/9/96 - 11/11/96	Logged By	TC Marin	Checked By	
Drilling Method	Air Rotary	Drill Bit Size/Type		Total Depth Drilled (feet)	110.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	13.5	Date Measured	11/11/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	4	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	2' 20/40 over 10/20 Silica		Type/Thickness of Seal(s)	Bentonite Slurry	
Screen Perforation					
0.010" Factory Slotted SCH 40 PVC					
Comments					

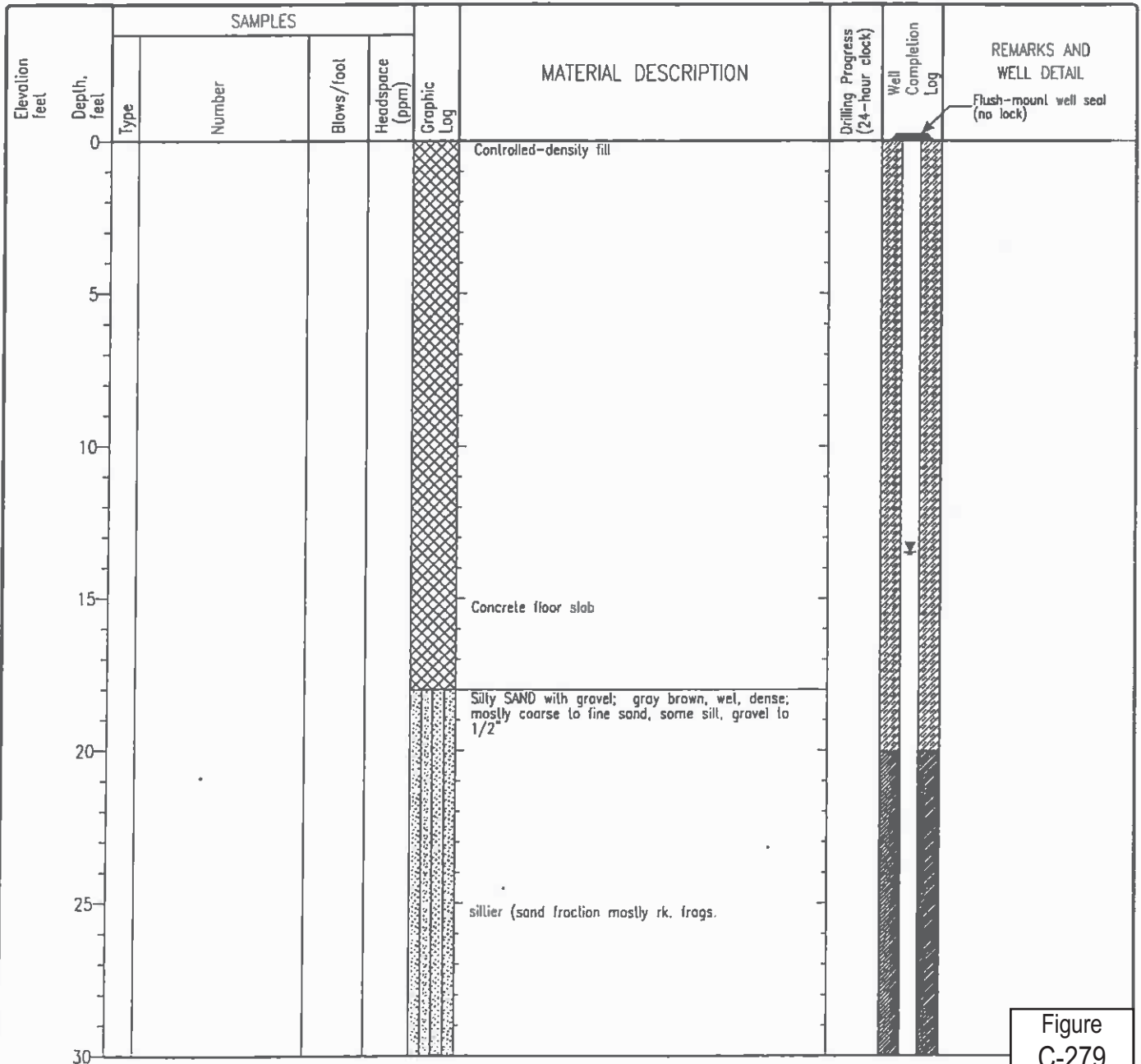


Figure C-279  
(1 of 4)



Report: EW\_1A... Project File: C:\PROGRAM-1\QNTWA\PROJECTS\BOLING GP4; Data Template: WC\_CORP1.GDT Printed: 10/22/98

Project Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW063

Sheet 2 of 4

Elevation feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot					
30									
						Poorly graded SAND with gravel; brown, wet, medium dense, mostly fine to medium sand, some silt, gravel (subrounded to subangular) to 3/4"			
35									
						Poorly graded GRAVEL with sand; brown, wet, dense, mostly medium to fine subrounded gravel, some fine to coarse sand, minor silt			
40									
						Poorly graded SAND with gravel; black, wet, dense, mostly fine to medium sand, some medium subrounded gravel, trace fines			
45									
						Poorly graded GRAVEL with sand; brown, wet, dense, mostly 3/4" subrounded to subangular gravel, some fine to coarse sand, minor fines			
50									
55									
60									
						Poorly graded SAND with gravel; black, wet, dense, mostly fine to medium sand, some gravel to 3/4", trace fines			
65									
70									

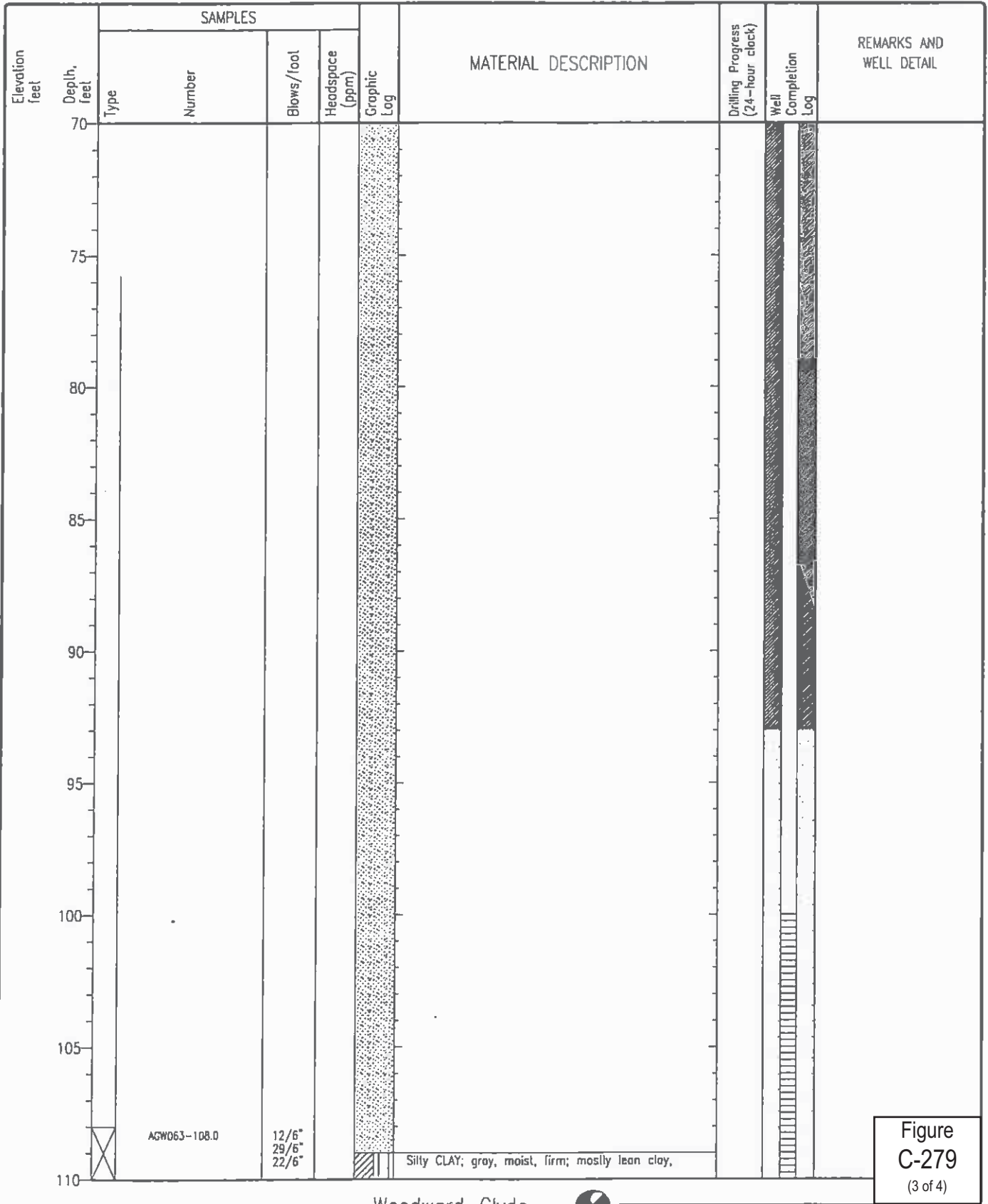
Report: EW\_1A...-objct File: C:\PROGRAMS\1\GINTWA\PROJECTS\BOILING GPJ; Data Template WC\_CORP1.GDT Printed: 10/22/98

Figure C-279  
(2 of 4)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW063

Sheet 3 of 4



Report: ENR\_1A; Project File C:\PROGRAM-1\GINT\PROJECTS\BOEING CP4; Data Template: WC\_CORP1.CDT Printed: 10/22/98

Figure  
C-279  
(3 of 4)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW063

Sheet 4 of 4

Elevation feet	Depth, feet	SAMPLES			Graphic Log	MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot					
115						some silt, some fine to medium sand, minor gravel in upper foot, no apparent laminations or bedding, abundant roots/grasses/organics at upper contact with overlying sand			
120									
125									
130									
135									
140									
145									
150									

Report: EW\_1A: --rajec1 File: C:\PROGRAMS\1\GINTW\PROJECTS\BOEING.GPJ Data Template: MC\_CORP1.GDT Printed: 10/22/98

Figure  
C-279  
(4 of 4)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW070

Sheet 1 of 3

Date(s) Drilled	12/11/96 - 12/13/96		Logged By	TC Marin	Checked By	
Drilling Method	Air Rotary		Drill Bit Size/Type		Total Depth Drilled (feet)	110.0
Drill Rig Type			Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	15		Date Measured	12/13/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)	Diameter of Well (inches)	8	Type of Well Casing	SCH 40 PVC	Screen Perforation	0.020" V-Wrap (Cont. Slot)
Type of Sand Pack	10/20 Silica Sand		Type/Thickness of Seal(s)	Bentonite Chips		
Comments						

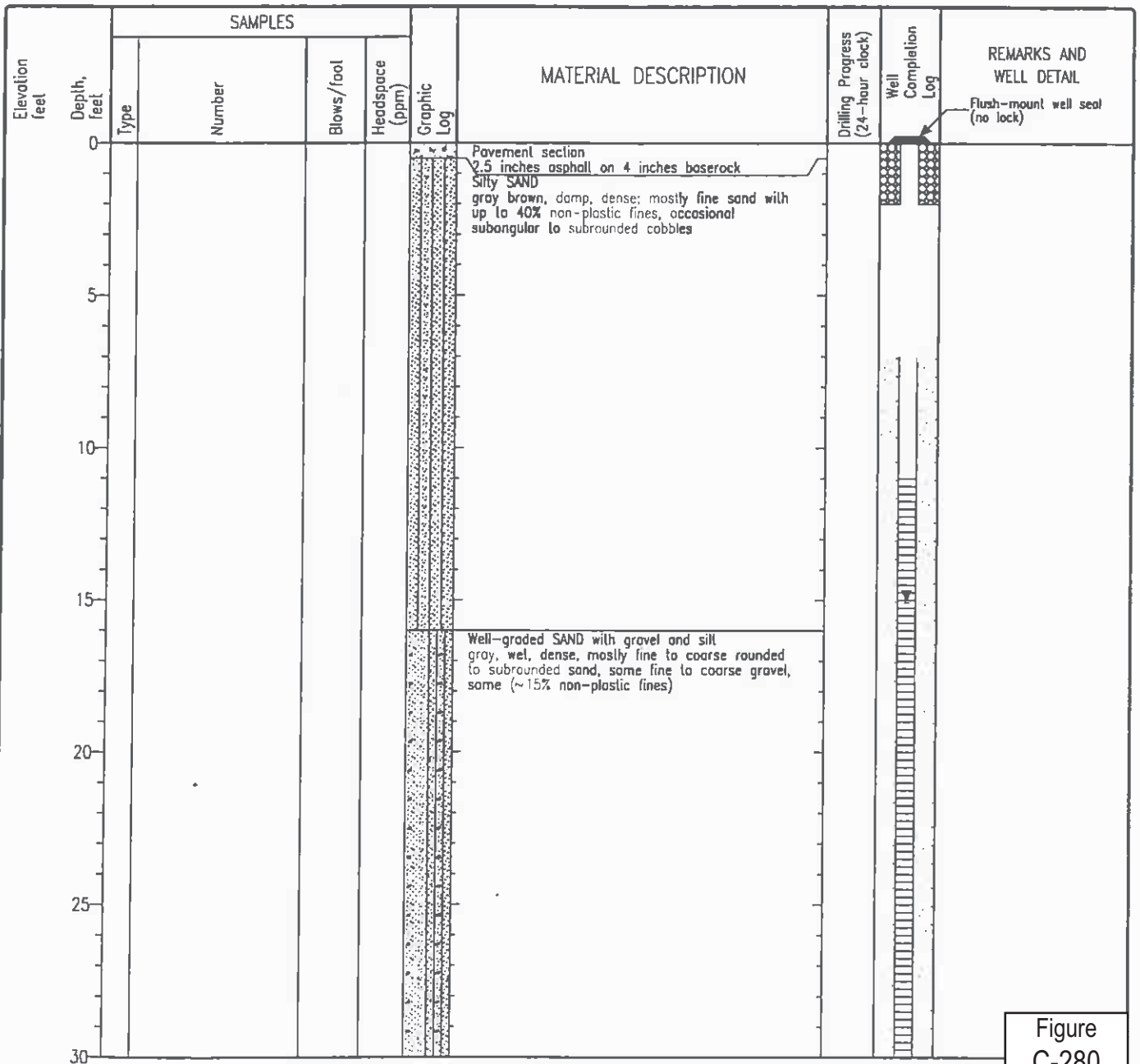


Figure C-280  
(1 of 3)

Report: ENV\_1A; Project File: C:\PROGRAM-1\GINTW\PROJECTS\BOEING\GPI; Data Template: WC\_CORP1.GDT Printed: 10/22/98



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

# Log of Boring AGW070

Sheet 2 of 3

Elevation feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
	Type	Number	Blows/foot	Headspace (ppm)				
30					Well-graded GRAVEL with silt and sand gray, wet, dense; fine to coarse, rounded to subrounded gravel, some fine to coarse sand, some non-plastic fines			
35								
40								
45					Continues as Well Graded Gravel with occasional cobbles; gravels up to 3/4" (subrounded to subangular); mostly dioritic and granitic in composition with some rhyolites; sand matrix consist of fine to coarse subangular sand, minor non-plastic fines			
50								
55					Well-graded GRAVEL with sand, gray, wet, dense, fine to coarse, occasional cobbles, rounded to subrounded gravel, some fine to coarse sand wood in cuttings, branches to 1.5" in diameter			
60								
65								
70					Gravelly/cobby zone from about 60 to 70ft bgs; minimum grain size is medium sand			

Report: EW\_1A - Project File: C:\PROGRAMS\GINTWA\PROJECTS\BOING GPJ; Data Template WC\_CORP1.GDT Printed: 10/22/98

Figure  
 C-280  
 (2 of 3)



Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW070  
 Sheet 3 of 3

Elevation feet	Depth, feet	SAMPLES				MATERIAL DESCRIPTION	Drilling Progress (24-hour clock)	Well Completion Log	REMARKS AND WELL DETAIL
		Type	Number	Blows/foot	Headspace (ppm)				
70									
75									
80									
85									
90									
95									
100									
105									
110									



Cobby from 95 feet to about 105 feet

Silty CLAY  
 gray, moist, firm, mostly lean clay with up to 40%  
 silt, trace fine to medium sand

Report: EN\_1A - Project: File C:\PROGRAM-1\GINTM\PROJECTS\BOEING.CPJ; Date: Temple, WC, CORP 1 GDT Printed: 10/22/98

Figure  
 C-280  
 (3 of 3)



# Boring & Well Construction Log

Kennedy/Jenks Consultant:

BORING LOCATION 800 FEET NORTH OF NW CORNER 17-05		Boring/Well Name AGW071, AGW072, AGW073	
DRILLING COMPANY CASCADE DRILLING		DRILLER STEVE ZIMMERMAN	
DRILLING METHOD AIR ROTARY W/ UNDER REAMER/TRICONE		Project Name BCAG-AUB AQ. TEST	
ISOLATION CASING		Project Number 956102.05	
BLANK CASING		ELEVATION AND DATUM	
PERFORATED CASING		TOTAL DEPTH 108.0	
SIZE AND TYPE OF FILTER PACK		DATE STARTED 12/13/1996	
SEAL		DATE COMPLETED 12/15/1996	
GROUT		INITIAL WATER DEPTH (FT) 15.0	
<b>TRIPLE COMPLETION PIEZOMETER SEE BELOW FOR COMPLETION DETAILS</b>		LOGGED BY T.C. MORIN	
		SAMPLING METHODS	
		WELL COMPLETION <input checked="" type="checkbox"/> SURFACE HOUSING <input type="checkbox"/> STAND PIPE _____ FT.	
GRAB (CYCLONE)			

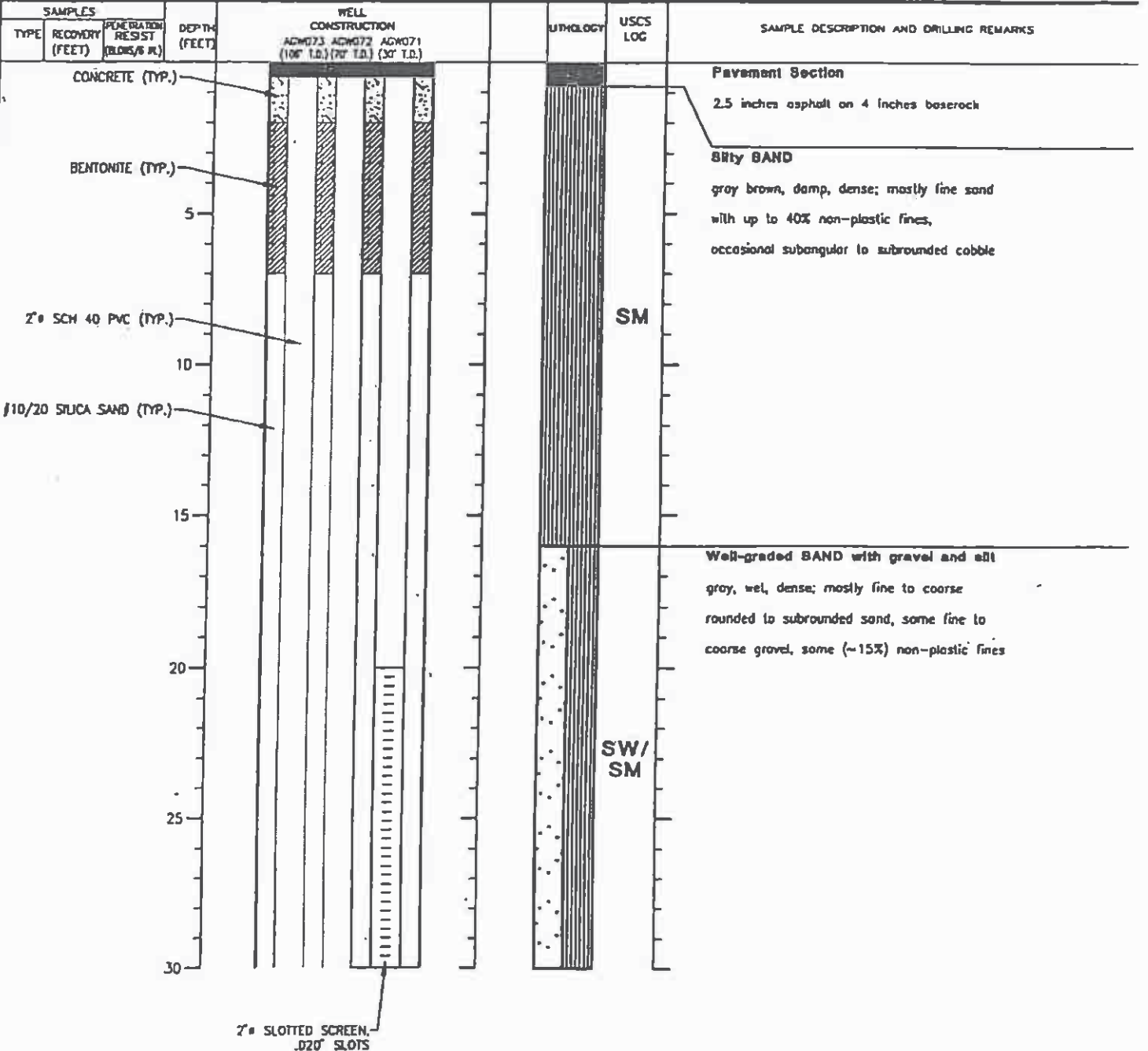


Figure C-281  
(1 of 3)

# Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name BCAG-AUB AQ. TEST

Project Number 956102.05

Boring/Well Name 071, 072, 073

SAMPLES			DEPTH (FEET)	WELL CONSTRUCTION		LITHOLOGY	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOVERY (FEET)	PENETRATION RESIST (BLKS/A W.)		AGW073 (106" I.D.)	AGW072 (70" I.D.)			
			35				GW/GM	Well-graded GRAVEL with silt and sand gray, wet, dense; fine to coarse, rounded to subrounded gravel, some fine to coarse sand, some non-plastic fines
			40					
			45					continues as Well Graded Gravel with occasional cobbles; gravels up to 3/4" (subrounded to subangular); mostly dioritic and granitic in composition with some rhyolites; sand matrix consist of fine to coarse subangular sand, minor non-plastic fines
			50					
			55					Well-graded GRAVEL with sand gray, wet, dense; fine to coarse with occasional cobbles, rounded to subrounded gravel, some fine to coarse sand
			60				GW	At 53 feet, wood in cuttings (branches to 1-1/2" in diameter)
			65					Gravelly/Cobby zone from about 60 to 70 ft bgs.; minimum grain size is medium sand
			70					

Figure C-281  
(2 of 3)

# Boring & Well Construction Log

Kennedy/Jenks Consultant

Project Name BCAG-AUB AQ. TEST

Project Number 956102.05

Boring/Well Name 071, 072, 073

SAMPLES			DEPTH (FEET)	WELL CONSTRUCTION		LITHOLOGY	USCS LOC	SAMPLE DESCRIPTION AND DRILLING REMARKS
TYPE	RECOVERY (FEET)	PENETRATION RESIST (BLDG/4-R)		ACW073 (10% LD)				
			75					Well-graded GRAVEL with sand gray, wet, dense; fine to coarse with occasional cobbles, rounded to subrounded gravel, some fine to coarse sand
			80					
			85					
			90				GW	
			95					Cobby from 95 feet to about 105 feet
			100					
			105					
			110				CL/ ML	Silty CLAY gray, moist, firm; mostly lean clay with up to 40% silt, trace fine to medium sand; 1/8 inch worm possible with saturated sample, low liquid limit, little toughness, only slightly dilatant

Figure  
C-281  
(3 of 3)

Project: Boeing Auburn  
 Project Location: Auburn, Washington  
 Project Number: 974009NB

Log of Boring AGW075

Sheet 1 of 1

Date(s) Drilled	12/14/96	Logged By	D Hanson	Checked By	
Drilling Method	Hollow Stem Auger	Drill Bit Size/Type		Total Depth Drilled (feet)	30.0
Drill Rig Type		Drilling Contractor	Cascade Drilling, Inc	Hammer Weight/Drop (lbs/in.)	
Groundwater Level (feet)	13.9	Date Measured	12/14/96	Approx. Surface Elevation (feet)	
Diameter of Hole (inches)		Diameter of Well (inches)	2	Type of Well Casing	SCH 40 PVC
Type of Sand Pack	2/12 Silica Sand	Type/Thickness of Seal(s)	Bentonite Chips	Screen Perforation	0.010" Slotted SCH 40 PVC
Comments					

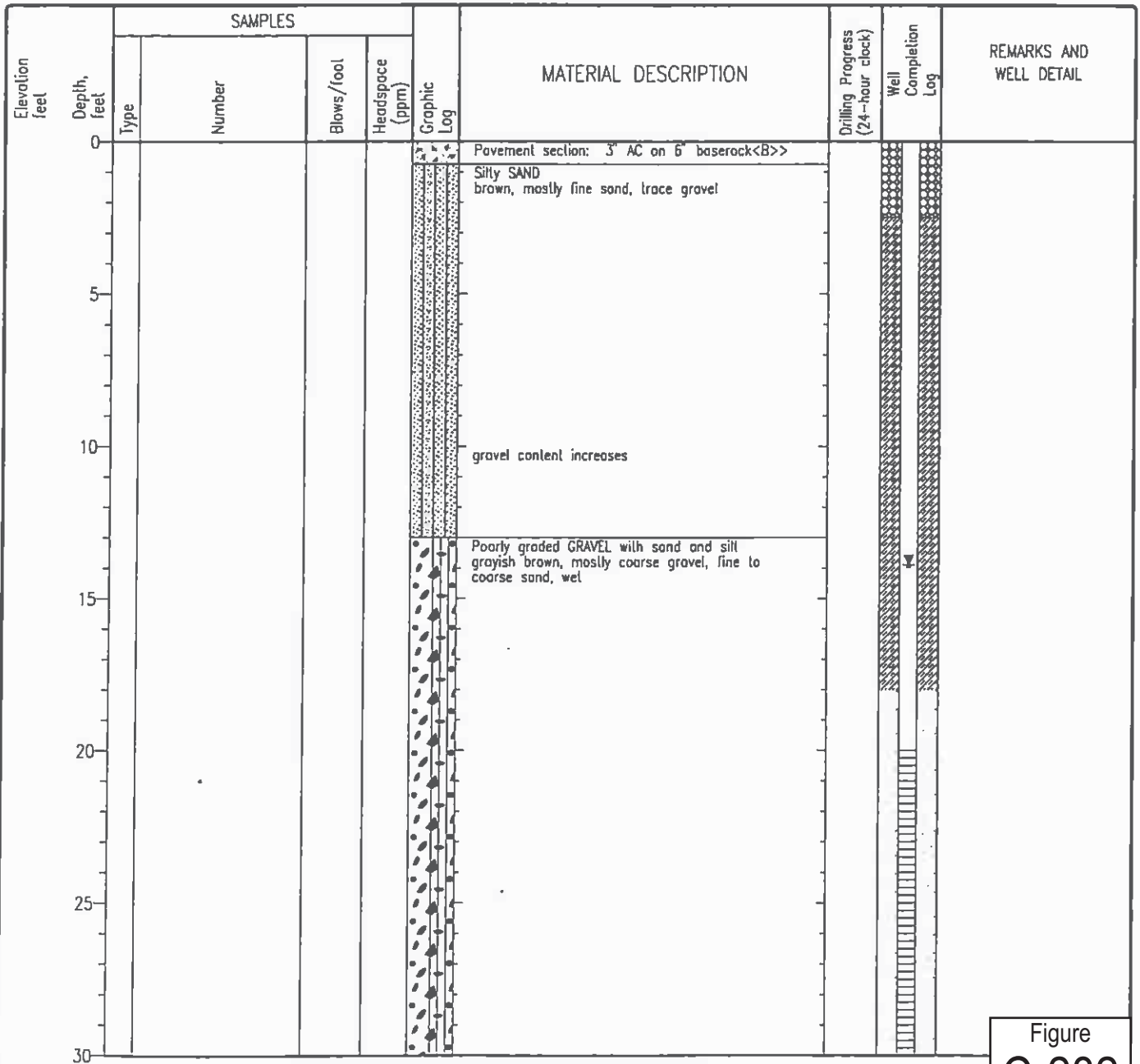


Figure  
C-282



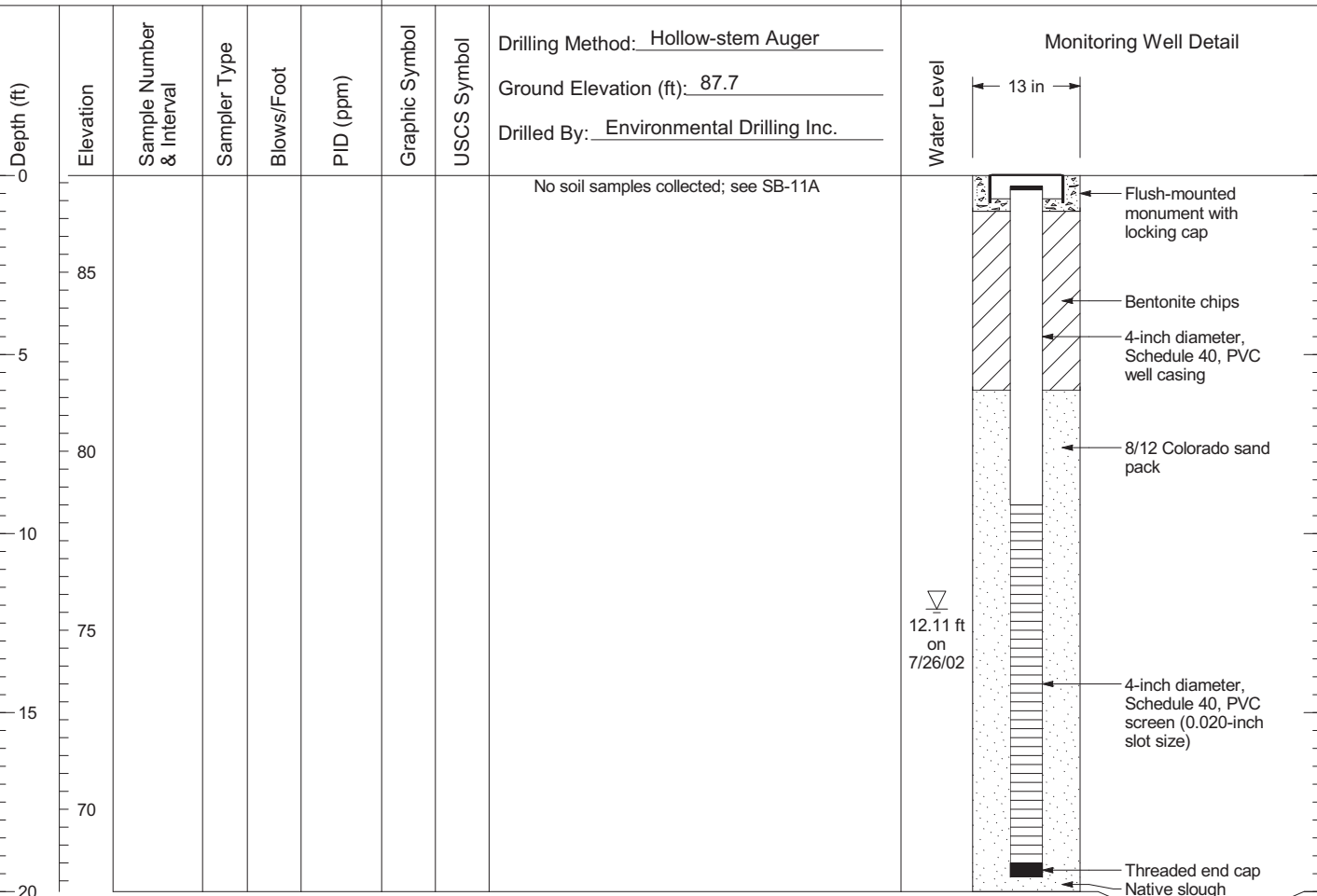


# AGW092

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 07/25/02  
Total Depth of Boring = 20.0 ft.

Monitoring Well Completed 07/25/02  
Elevation at Top of Monitoring Well Casing = 86.99 ft.  
Total Depth of Monitoring Well = 19.6 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.

025164.41 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

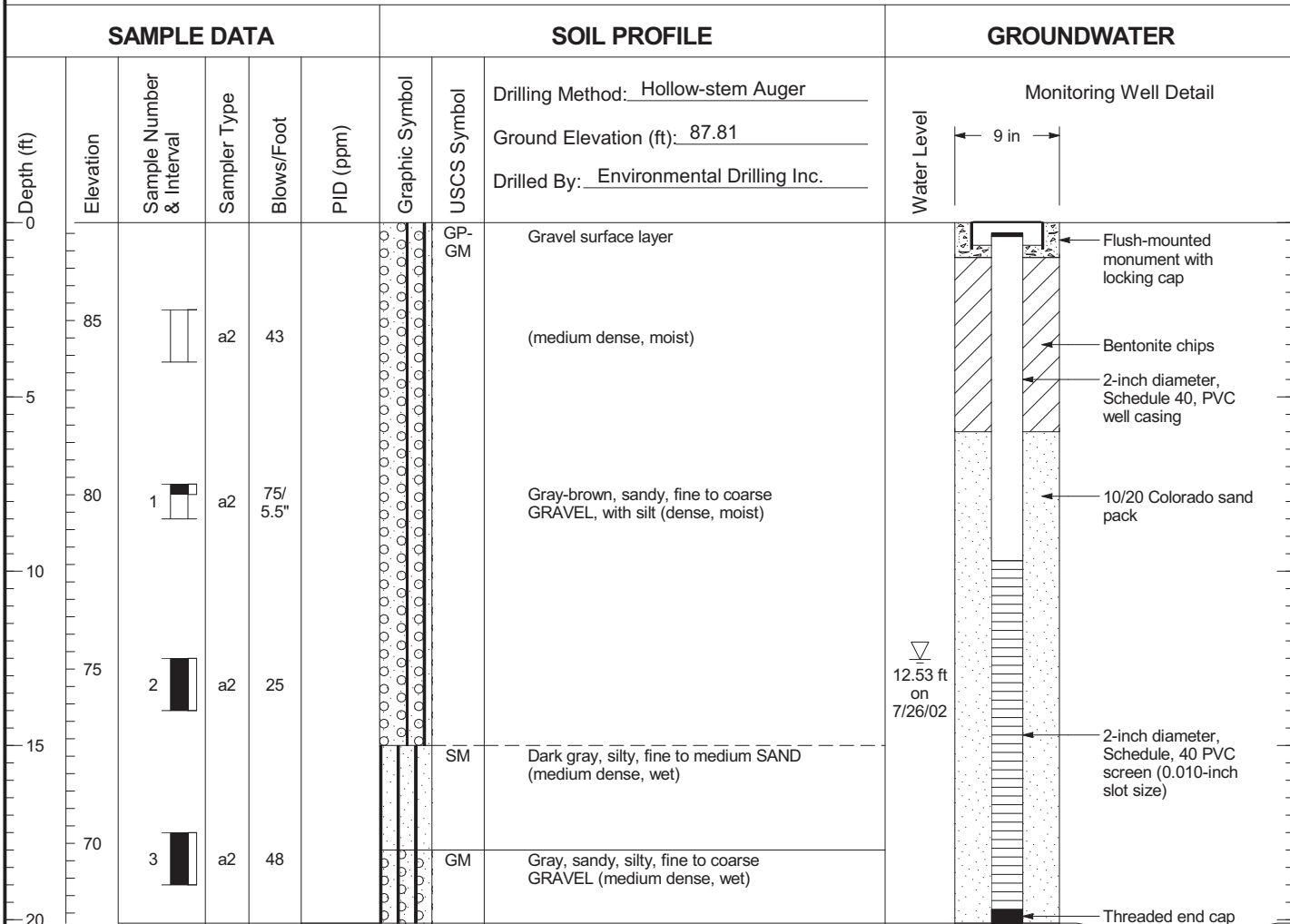


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW092

Figure  
C-283

# AGW093



Boring Completed 07/25/02  
Total Depth of Boring = 20.1 ft.

Monitoring Well Completed 07/25/02  
Elevation at Top of Monitoring Well Casing = 87.33 ft.  
Total Depth of Monitoring Well = 20.1 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.

025164.41 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW093

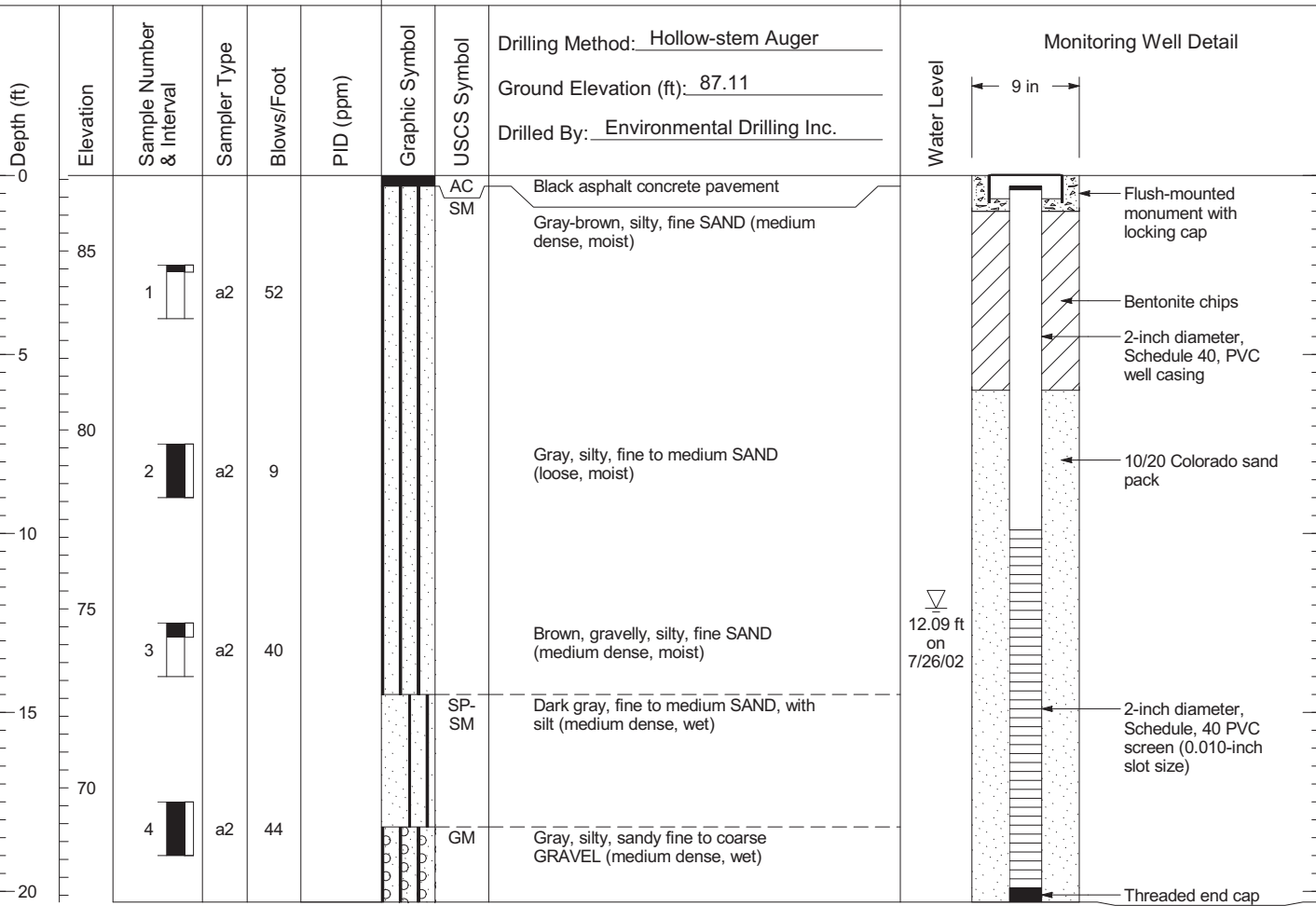
Figure  
C-284

# AGW094

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 07/25/02  
Total Depth of Boring = 20.3 ft.

Monitoring Well Completed 07/25/02  
Elevation at Top of Monitoring Well Casing = 86.86 ft.  
Total Depth of Monitoring Well = 20.3 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.

025164.41 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

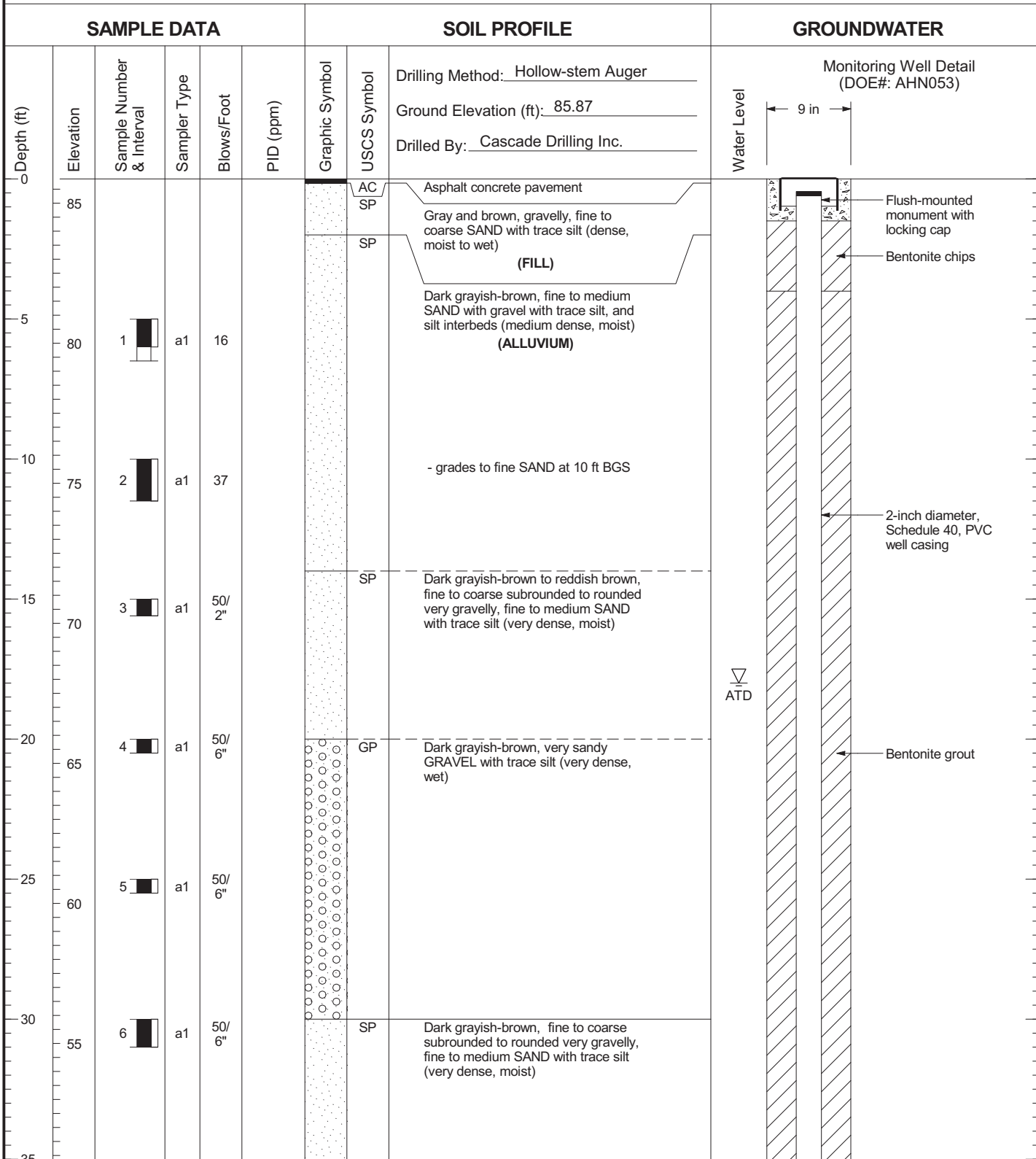


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW094

Figure  
C-285

# AGW095



- 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. DOE Unique Well Number: AHN053

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW095

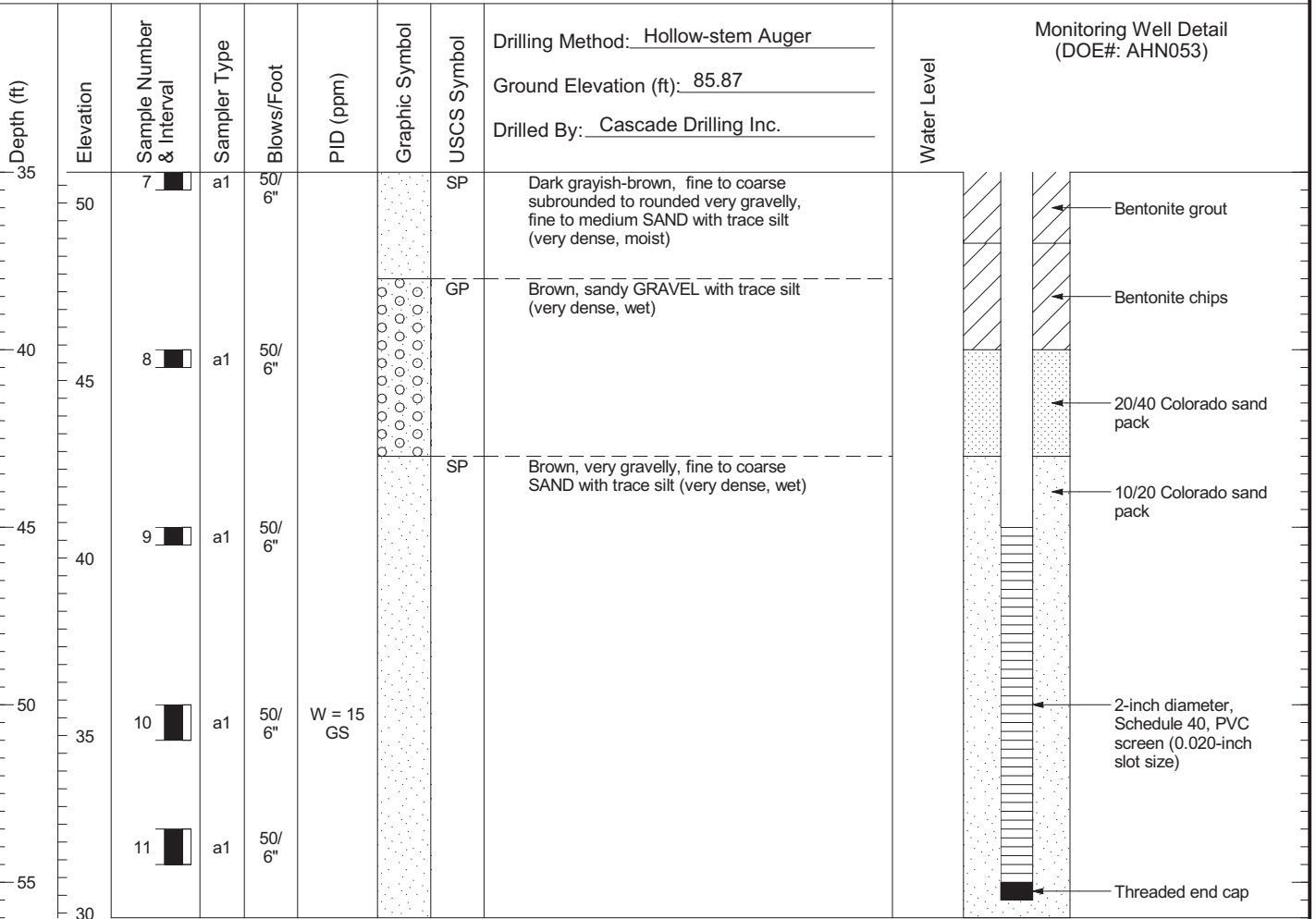
Figure  
C-286  
(1 of 2)

# AGW095

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 12/02/03  
Total Depth of Boring = 56.0 ft.

Monitoring Well Completed 12/02/03  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 85.49 ft.  
Total Depth of Monitoring Well = 55.5 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.
  4. DOE Unique Well Number: AHN053

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

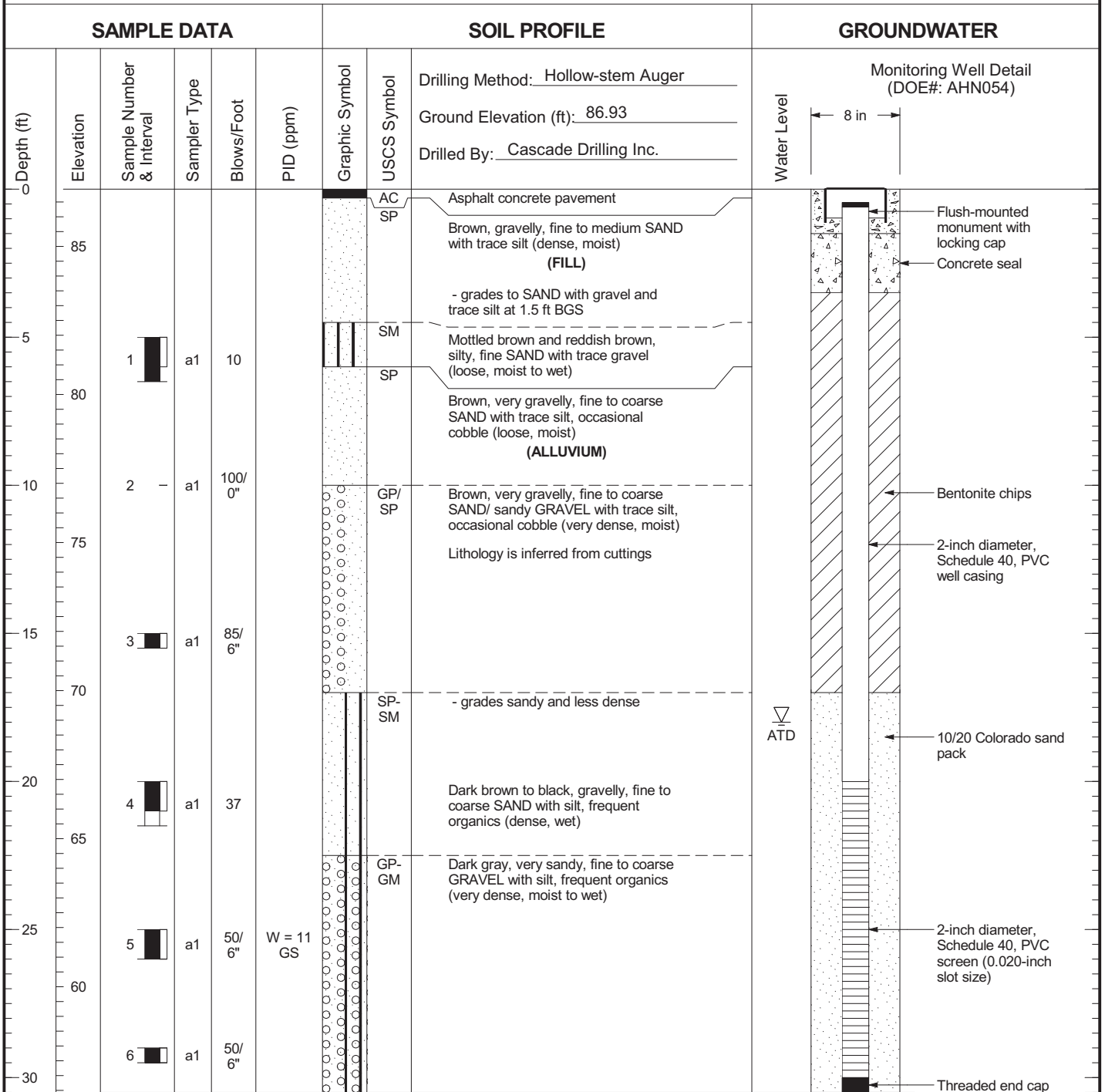


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW095

Figure  
C-286  
(2 of 2)

# AGW096



Boring Completed 12/02/03  
Total Depth of Boring = 30.5 ft.

Monitoring Well Completed 12/02/03  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.69 ft.  
Total Depth of Monitoring Well = 30.5 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.
  4. DOE Unique Well Number: AHN054

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

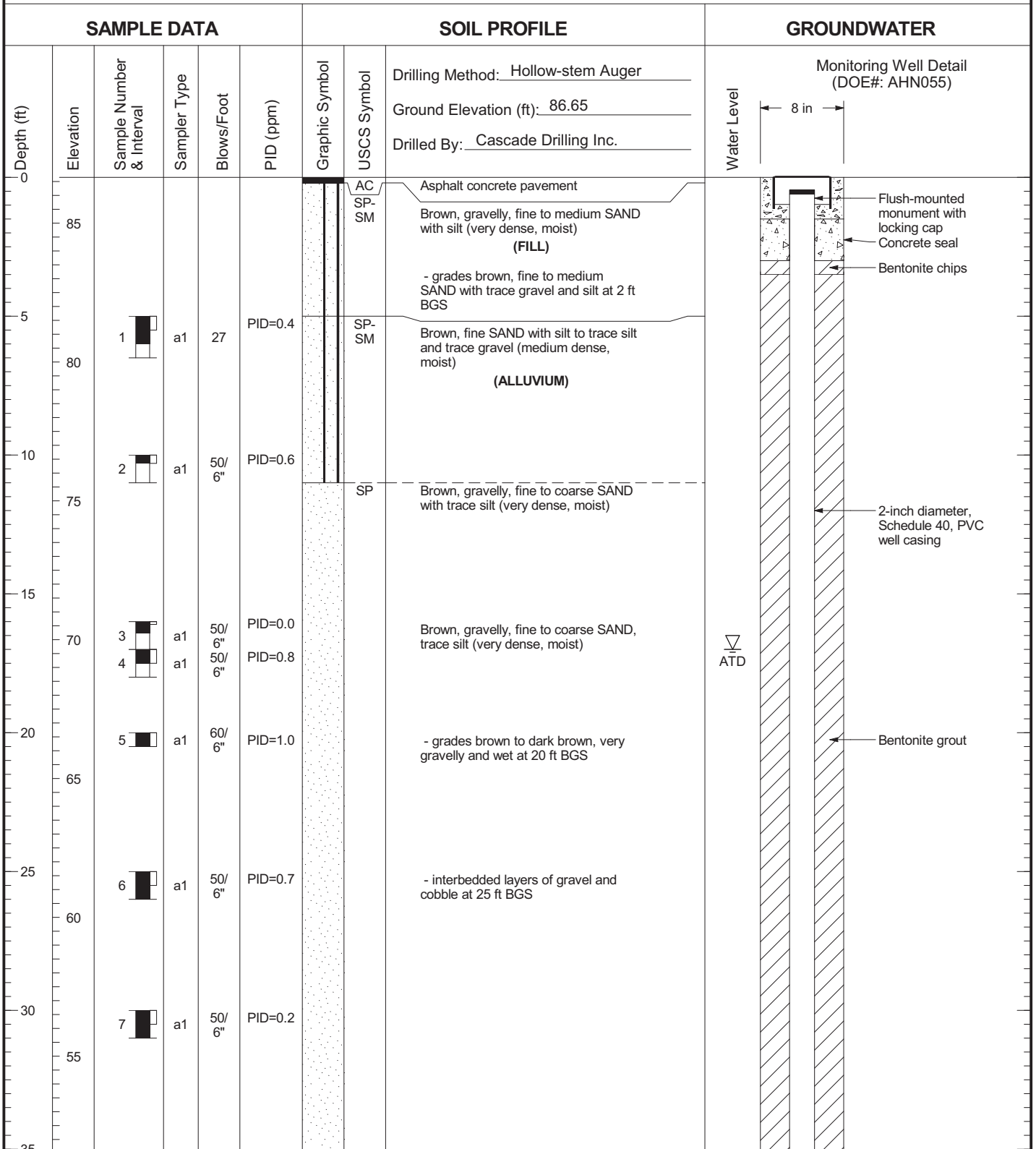


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW096

Figure  
C-287

# AGW097



- 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. DOE Unique Well Number: AHN055

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

Log of Monitoring Well AGW097

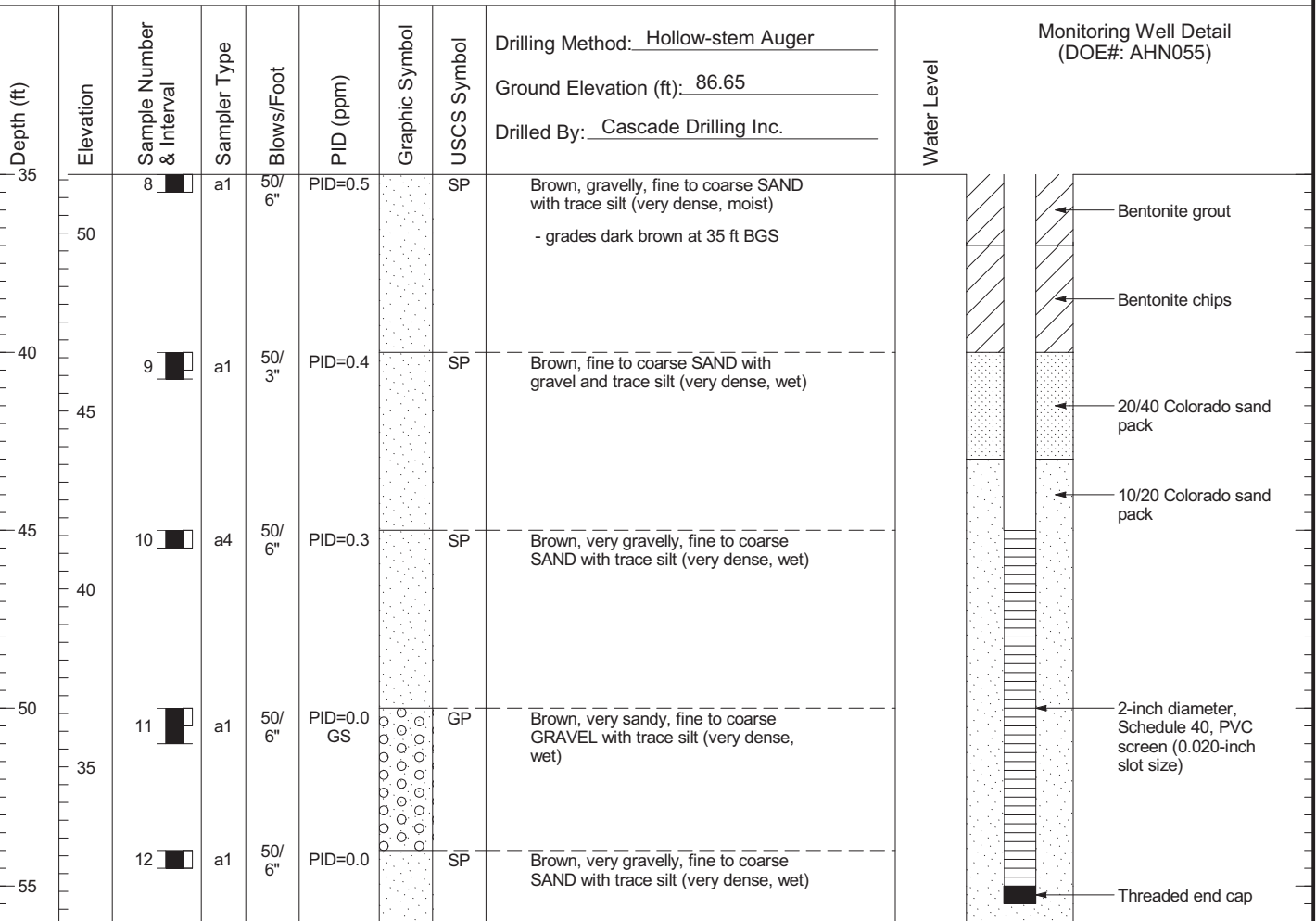
Figure  
C-288  
(1 of 2)

# AGW097

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 12/03/03  
Total Depth of Boring = 56.0 ft.

Monitoring Well Completed 12/03/03  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.22 ft.  
Total Depth of Monitoring Well = 55.5 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.
  4. DOE Unique Well Number: AHN055

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



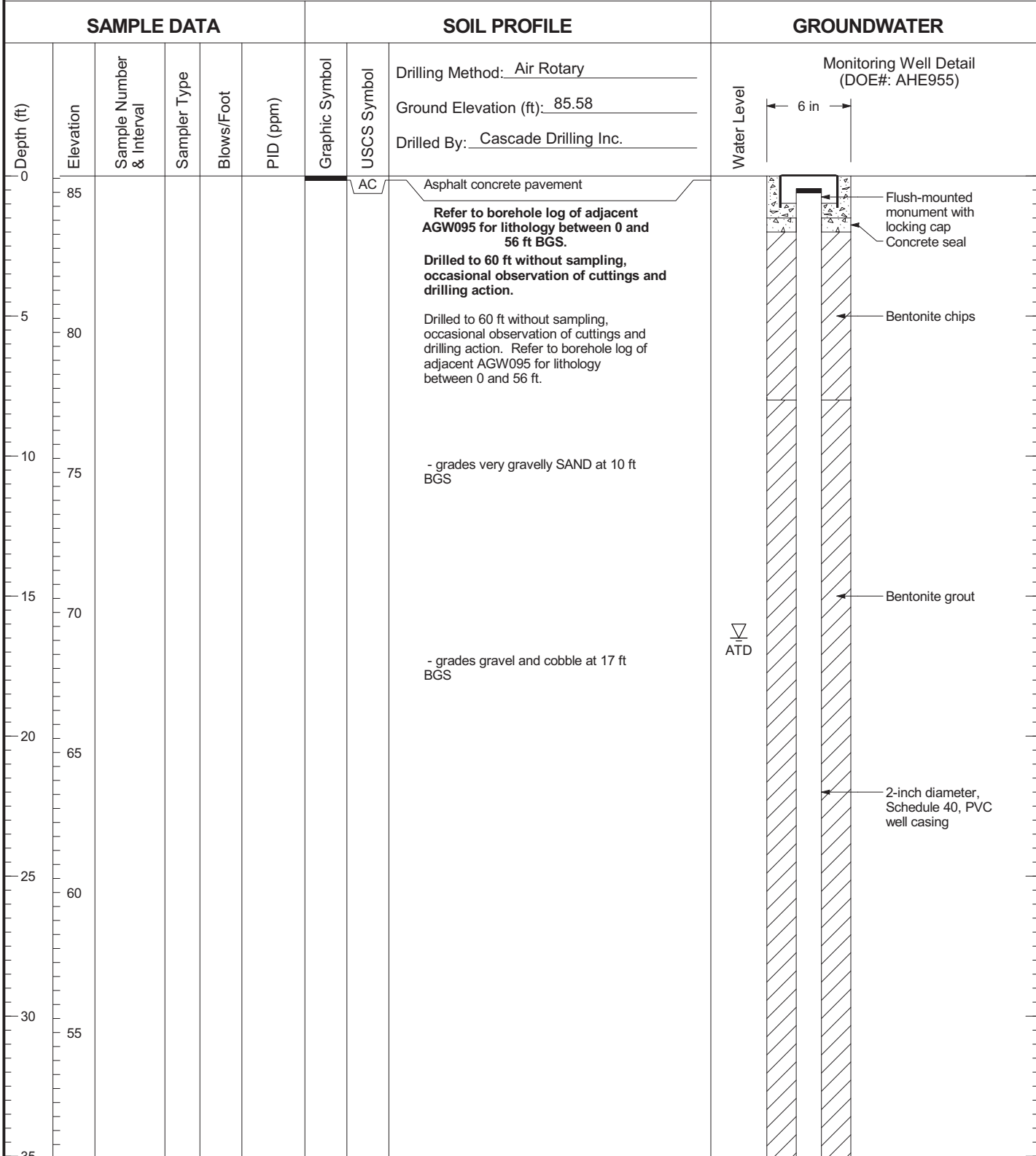
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW097

Figure  
C-288  
(2 of 2)



# AGW098



- 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. DOE Unique Well Number: AHE955

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW098

Figure  
C-289  
(1 of 3)

# AGW098

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: Air Rotary	Water Level	Monitoring Well Detail (DOE#: AHE955)
								Ground Elevation (ft): 85.58		
								Drilled By: Cascade Drilling Inc.		
35	50							<p>Refer to borehole log of adjacent AGW095 for lithology between 0 and 56 ft BGS.</p> <p>Drilled to 60 ft without sampling, occasional observation of cuttings and drilling action.</p> <p>- grades less dense (able to push casing down without hammer) at 35 ft BGS</p>		Bentonite grout
40	45									
45	40							- grades very dense, gravel and cobble at 45.5 ft BGS		
50	35									2-inch diameter, Schedule 40, PVC well casing
55	30									
60	25	1	d4			GP/SP		Brown, very sandy GRAVEL with trace silt (very dense, wet) <b>(ALLUVIUM)</b>		
65	20	2	d4					- grades very gravelly, SAND at 65 ft BGS		
70								- increasing gravel content at 68 ft BGS		Slough

- 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. DOE Unique Well Number: AHE955

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

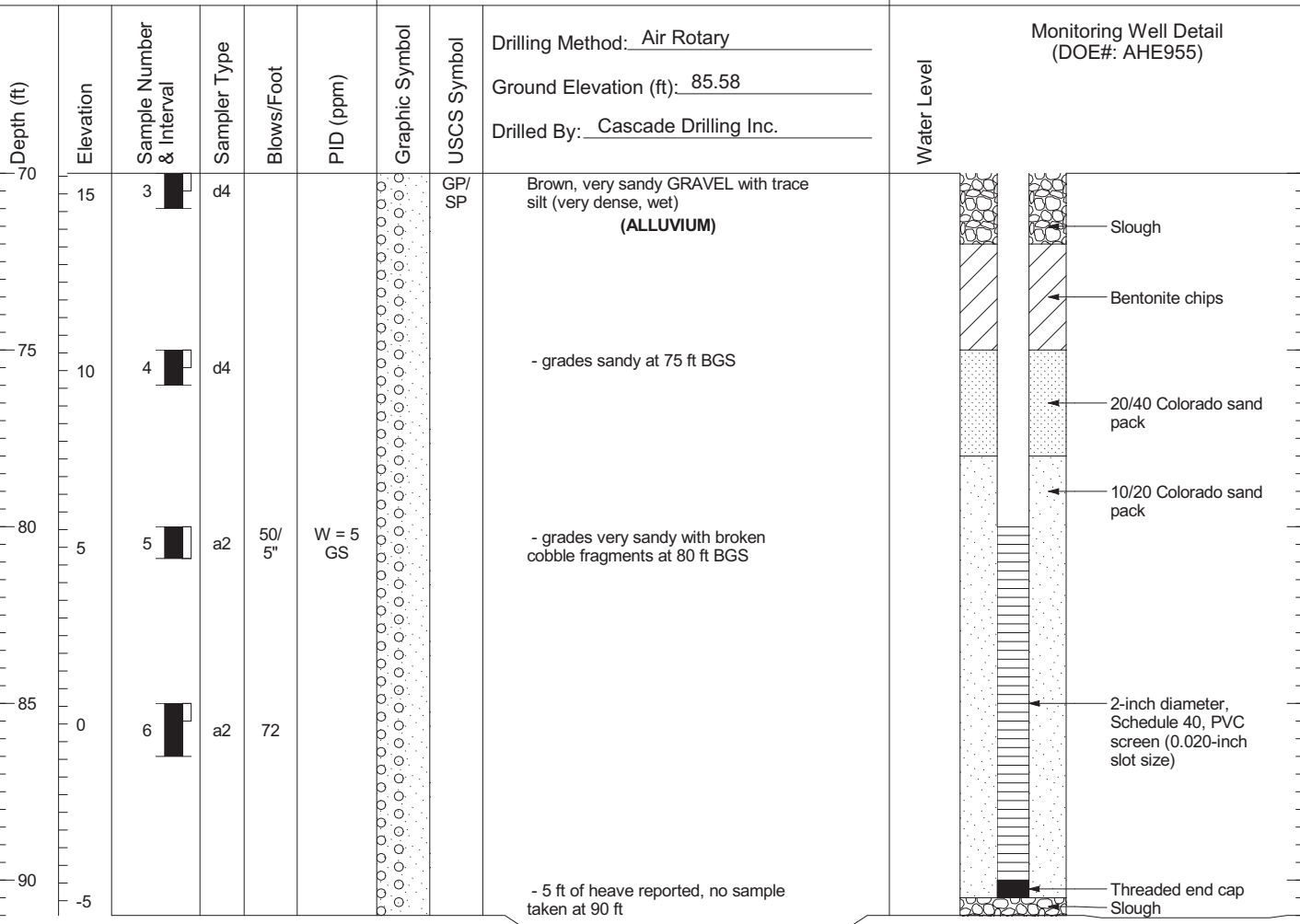


# AGW098

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 12/09/03  
Total Depth of Boring = 91.0 ft.

Monitoring Well Completed 12/09/03  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 85.15 ft.  
Total Depth of Monitoring Well = 90.5 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.
  4. DOE Unique Well Number: AHE955

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

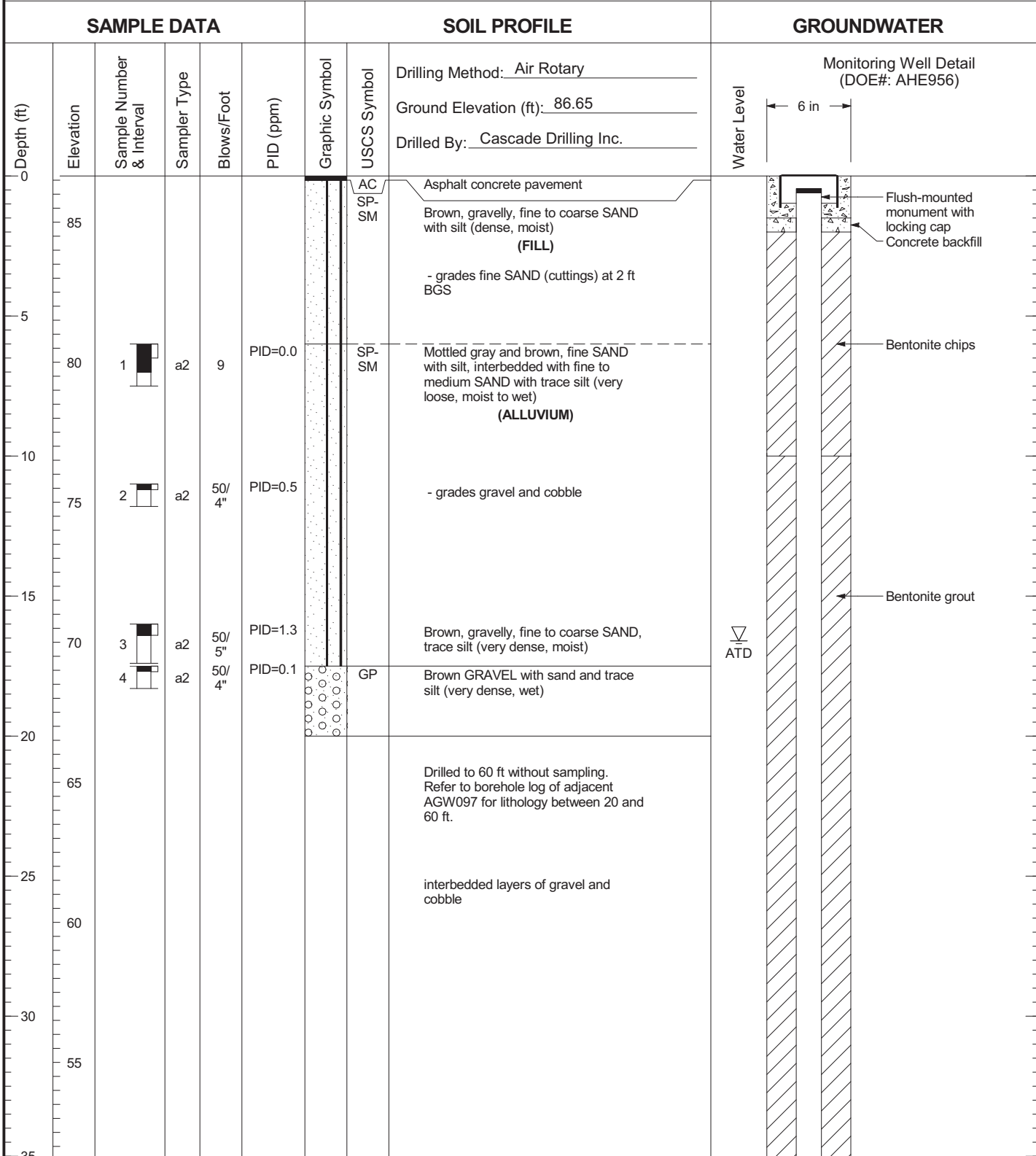


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW098

Figure  
C-289  
(3 of 3)

# AGW099



- 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. DOE Unique Well Number: AHE956

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW099

Figure  
C-290  
(1 of 3)

# AGW099

SAMPLE DATA						SOIL PROFILE			GROUNDWATER		
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Air Rotary</u>		Water Level	Monitoring Well Detail (DOE#: AHE956)
								Ground Elevation (ft): <u>86.65</u>			
35								Dark brown, very gravelly, fine to coarse SAND, trace silt (very dense, wet)			
50								Brown, fine to coarse SAND with gravel, trace silt (very dense, wet)			Bentonite grout
40						SP		Brown, very gravelly, fine to coarse SAND, trace silt (very dense, wet)			
45								Brown, very gravelly, fine to coarse SAND, trace silt (very dense, wet)			
45						GP/SP		Grayish-brown GRAVEL with sand and trace silt (very dense, wet)			
40								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
50								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
35								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
55								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
30								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
60		5	d4			GP		Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
25								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
65		6	d4			GP/SP		Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			Bentonite chips
20								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			
70								Brown, very gravelly, fine to coarse SAND with trace silt (very dense, wet)			

- 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. DOE Unique Well Number: AHE956

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

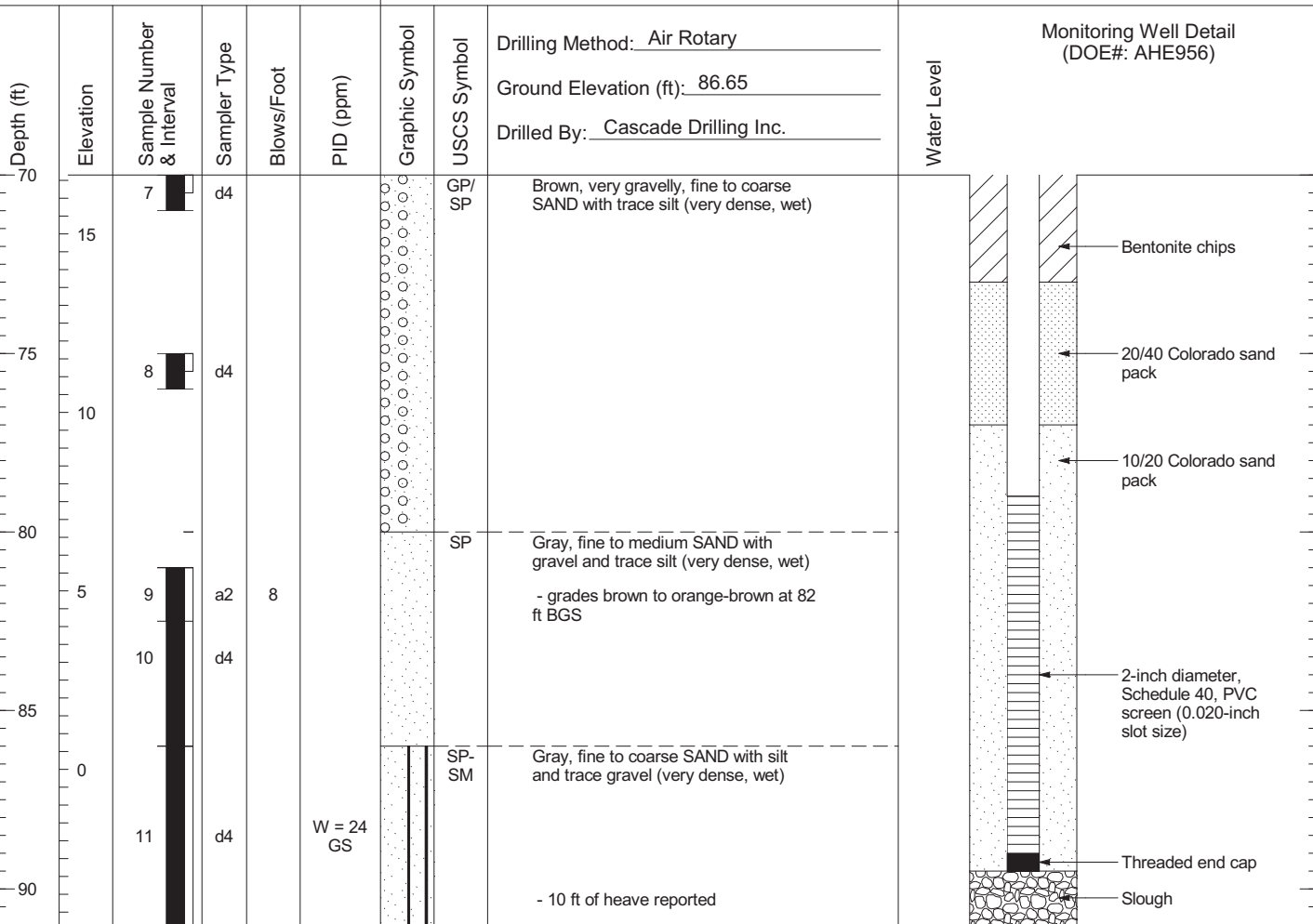


# AGW099

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 12/10/03  
Total Depth of Boring = 91.0 ft.

Monitoring Well Completed 12/10/03  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.22 ft.  
Total Depth of Monitoring Well = 89.5 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.
  4. DOE Unique Well Number: AHE956

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

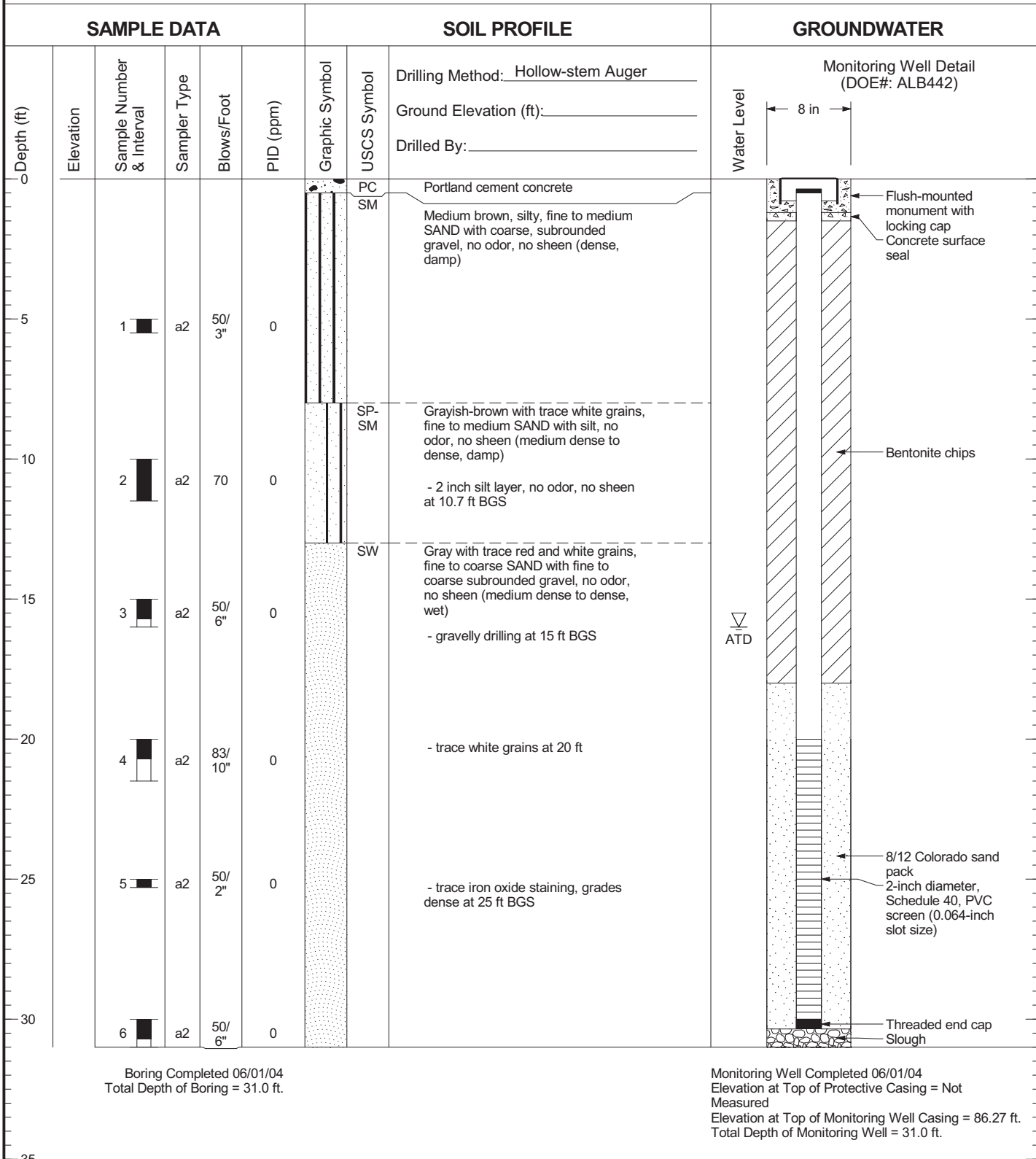


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW099

Figure  
C-290  
(3 of 3)

# AGW106



Boring Completed 06/01/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/01/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.27 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB442

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

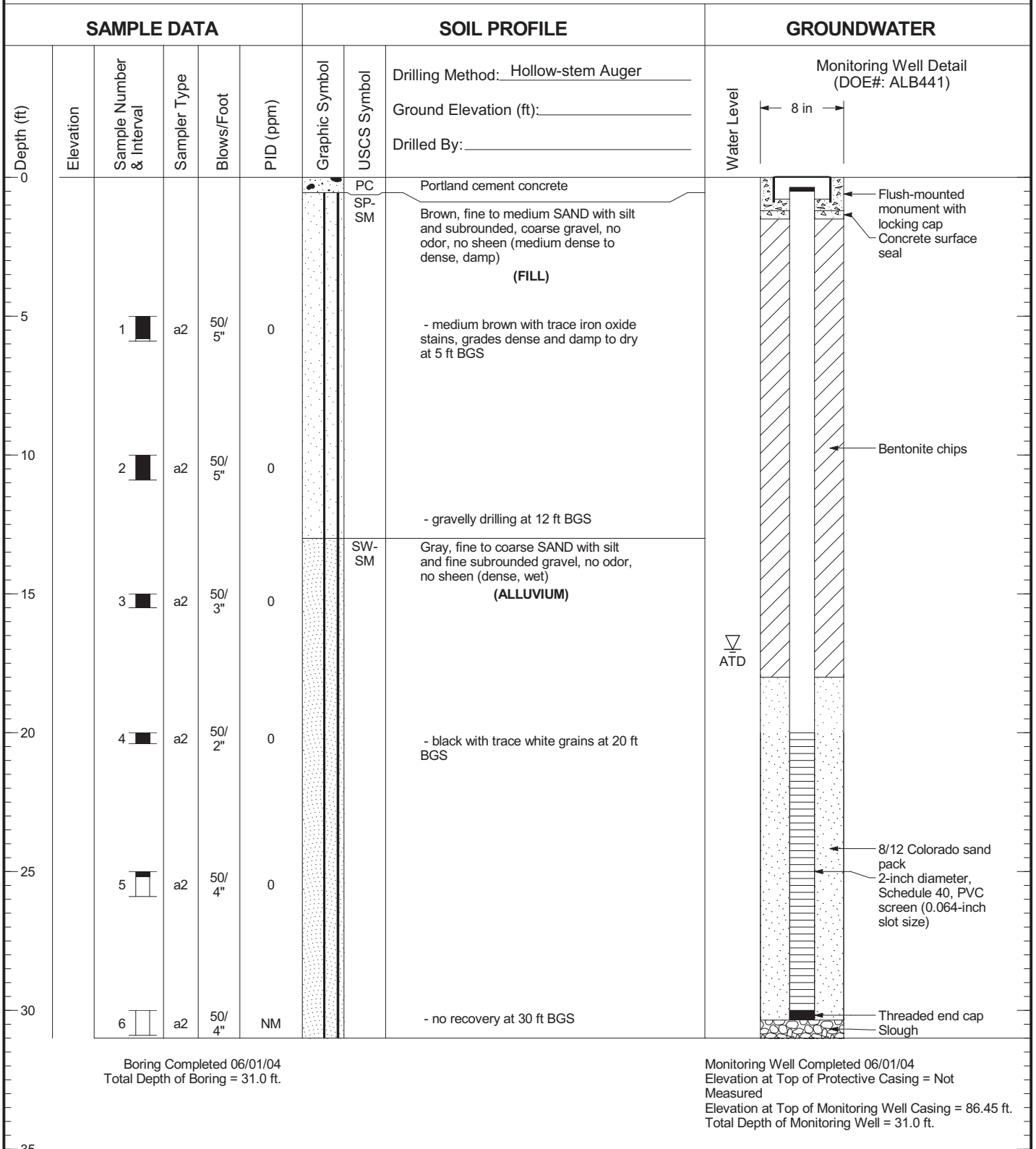


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Monitoring Well AGW106

Figure  
C-291

# AGW107



Boring Completed 06/01/04  
 Total Depth of Boring = 31.0 ft.

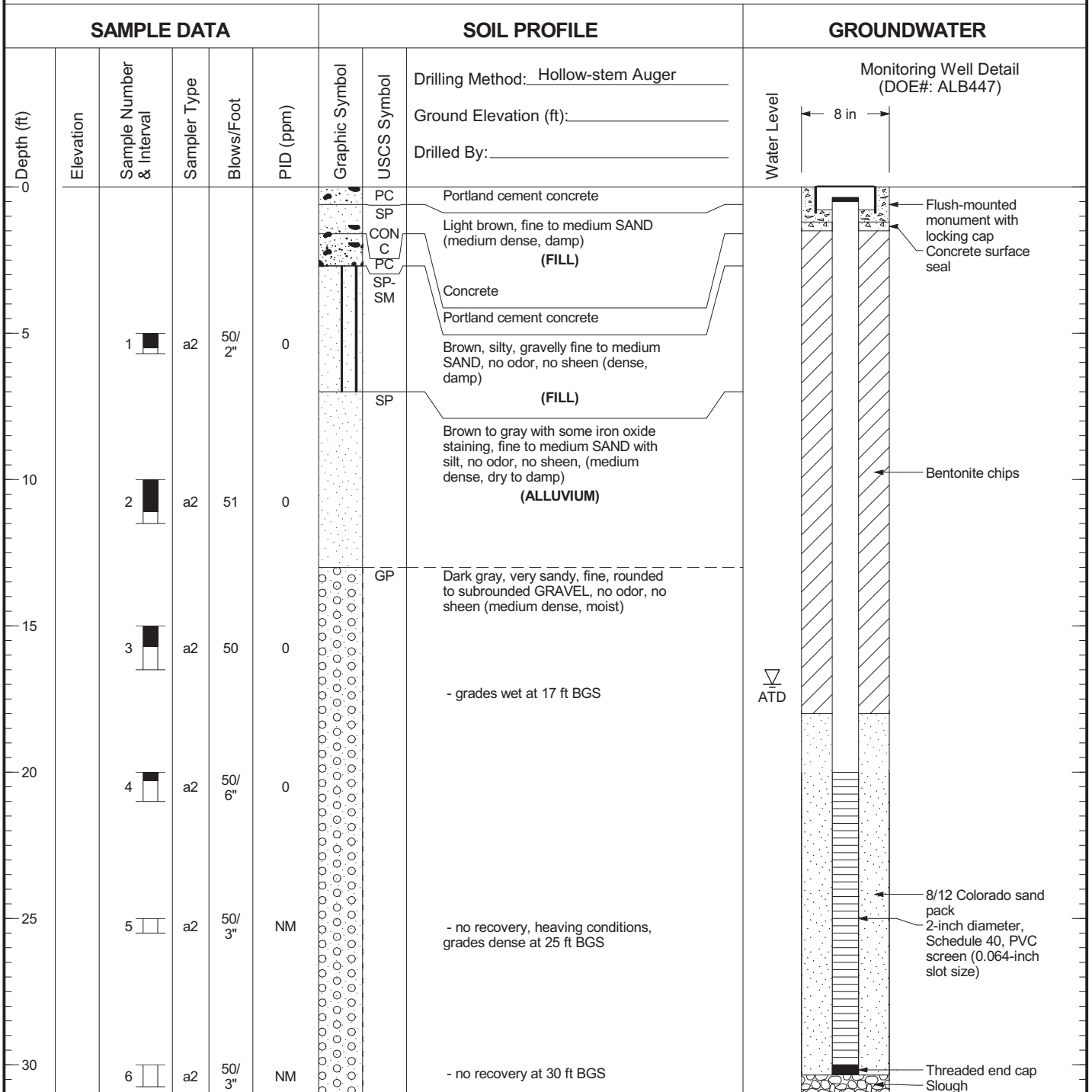
Monitoring Well Completed 06/01/04  
 Elevation at Top of Protective Casing = Not Measured  
 Elevation at Top of Monitoring Well Casing = 86.45 ft.  
 Total Depth of Monitoring Well = 31.0 ft.

- 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. DOE Unique Well Number: ALB441

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



# AGW108



Boring Completed 06/03/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/03/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.55 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB447

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

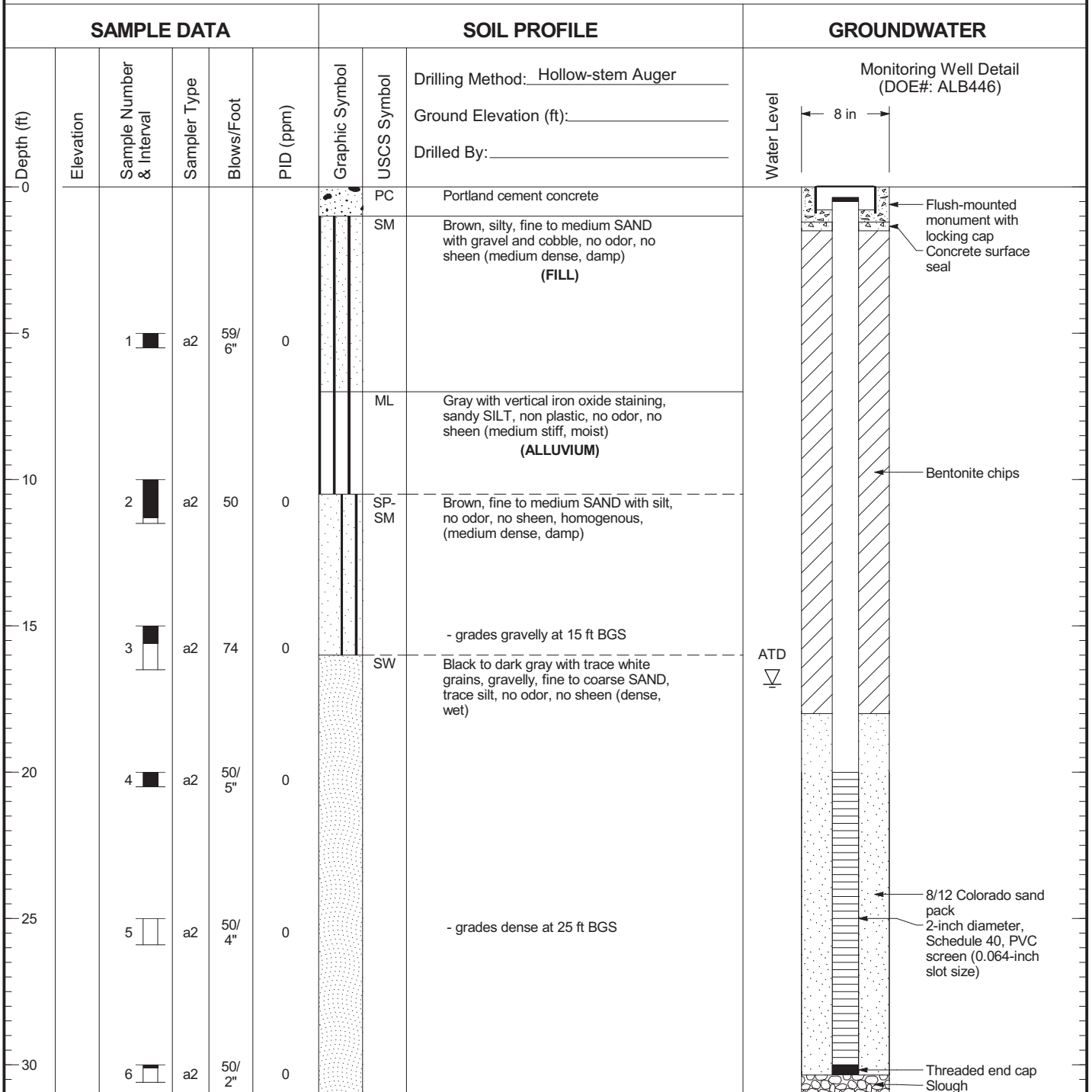


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Investigation  
Auburn, Washington

Log of Monitoring Well AGW108

Figure  
C-293

# AGW109



Boring Completed 06/03/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/03/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.37 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB446

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Monitoring Well AGW109

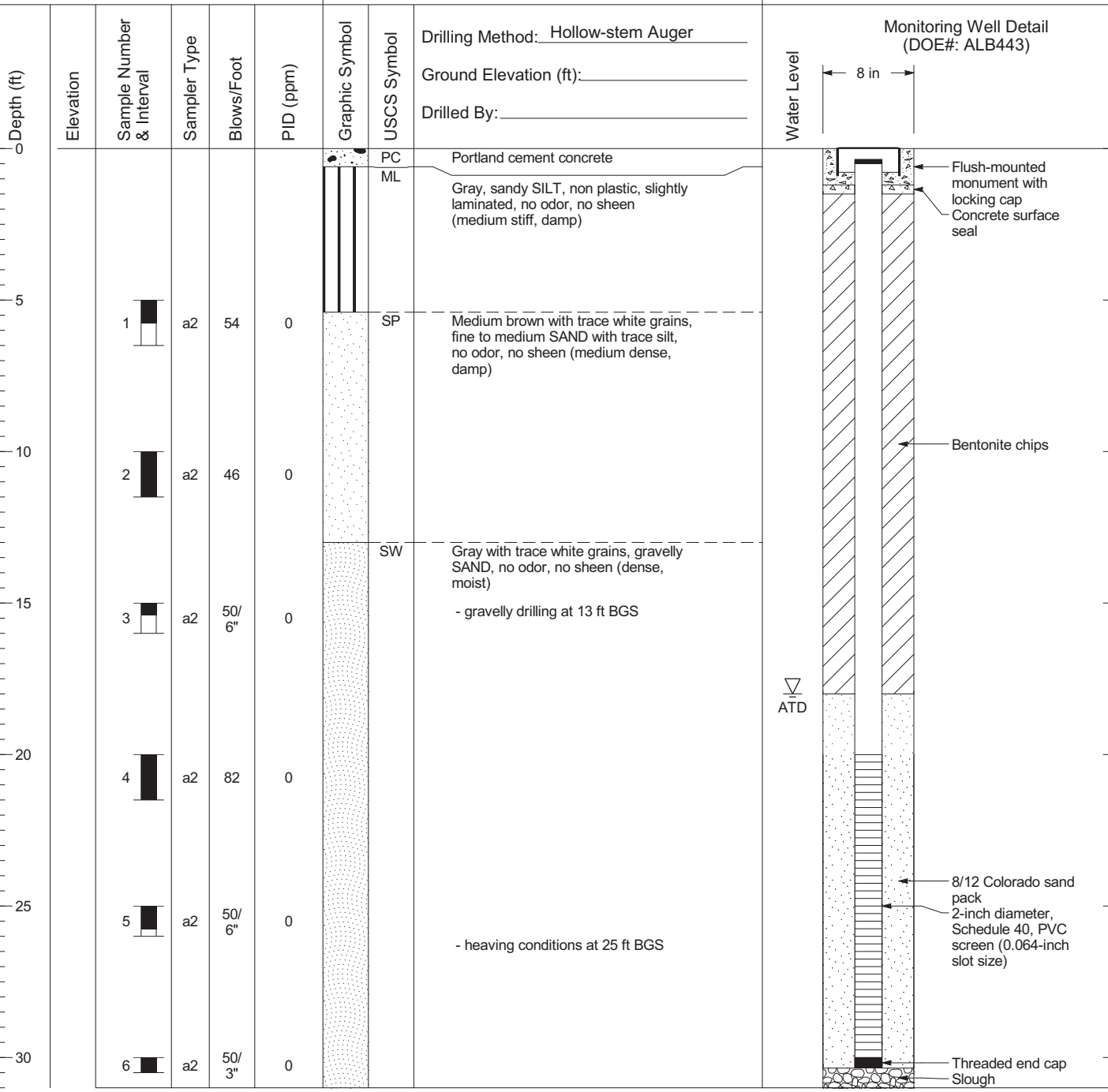
Figure  
C-294

# AGW110

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 06/02/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/02/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.59 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB443

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

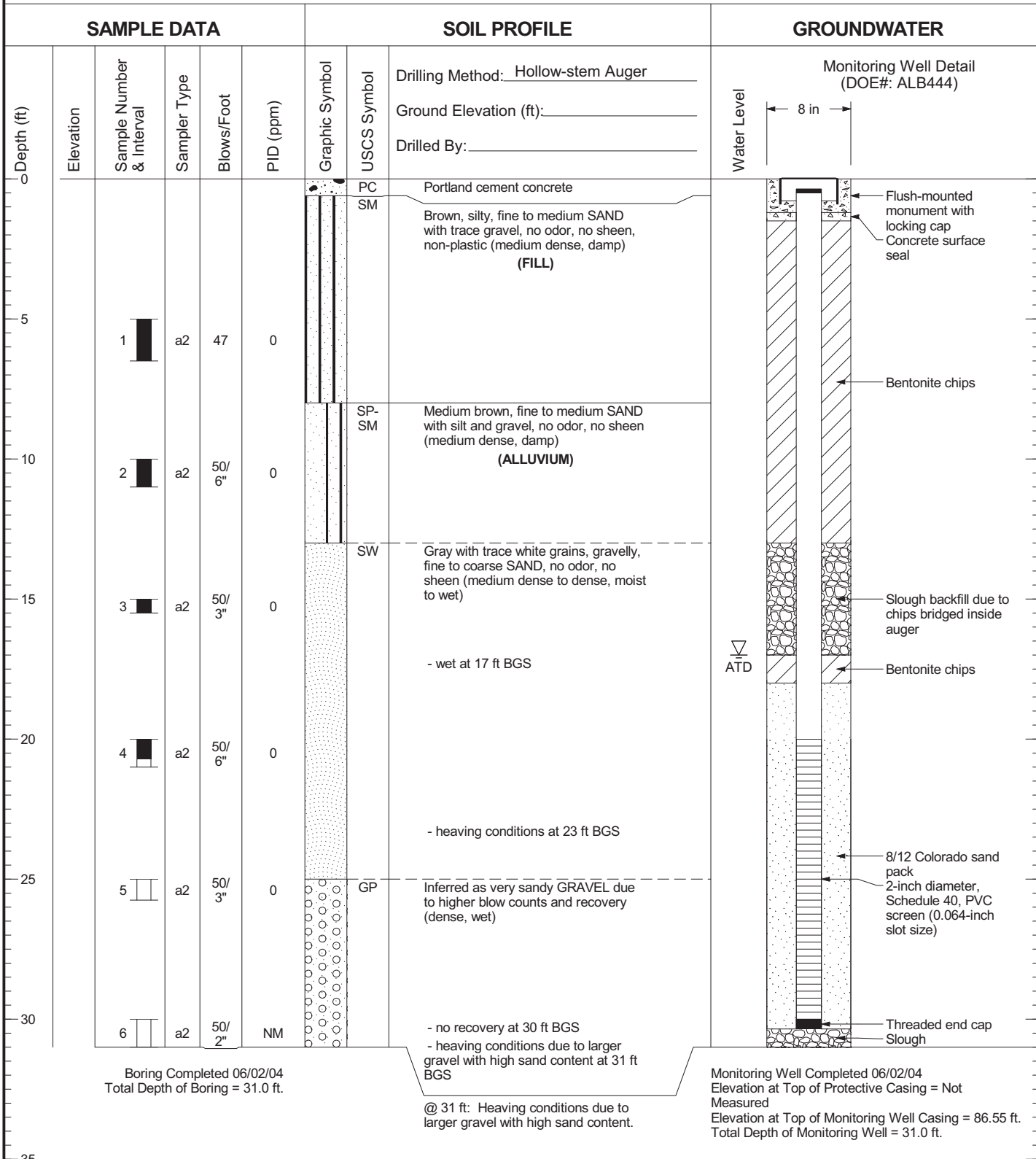


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Auburn, Washington

Log of Monitoring Well AGW110

Figure  
C-295

# AGW111



- 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. DOE Unique Well Number: ALB444

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

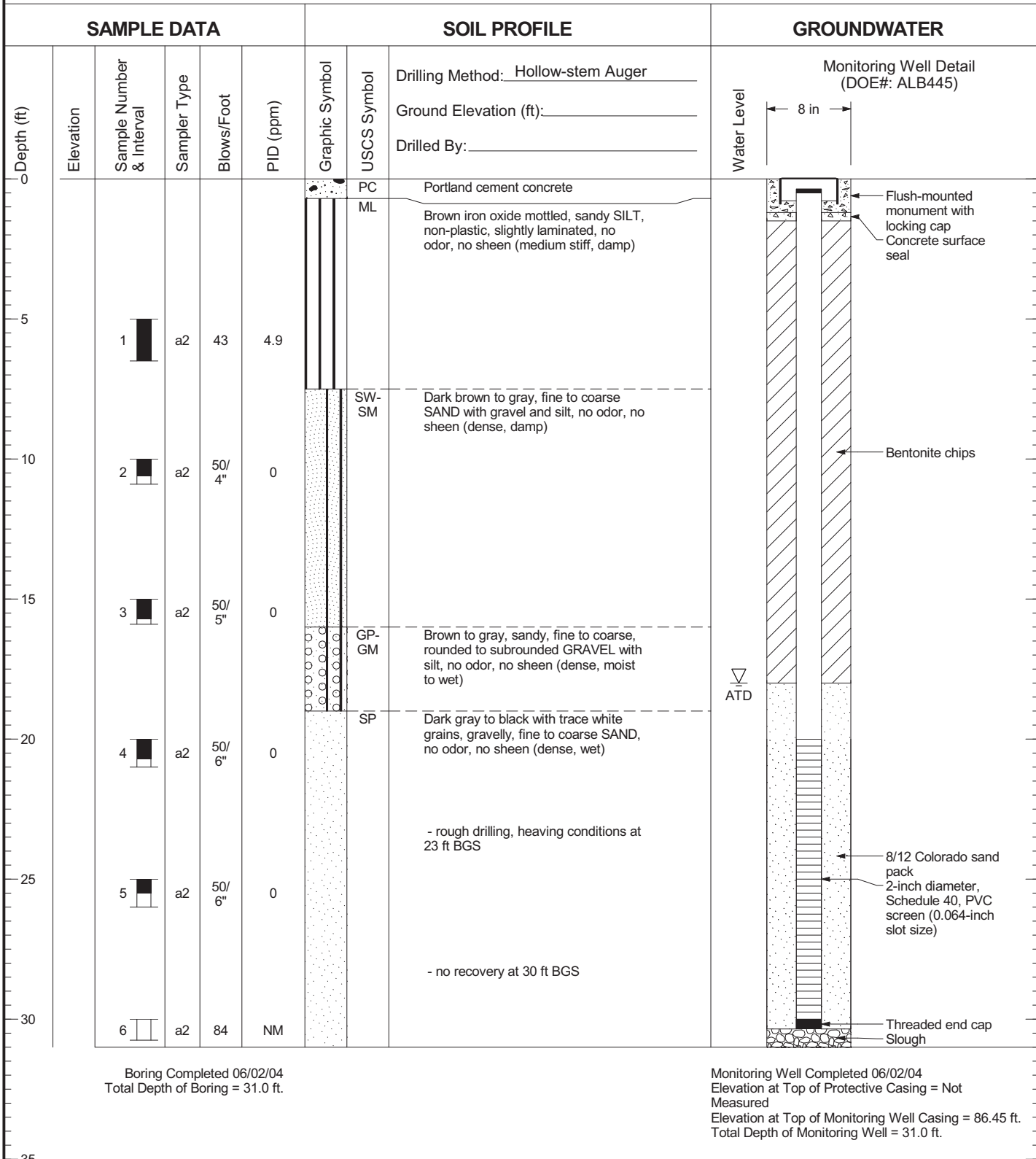


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Auburn, Washington

Log of Monitoring Well AGW111

Figure  
C-296

# AGW112



Boring Completed 06/02/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/02/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.45 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB445

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Monitoring Well AGW112

Figure  
C-297

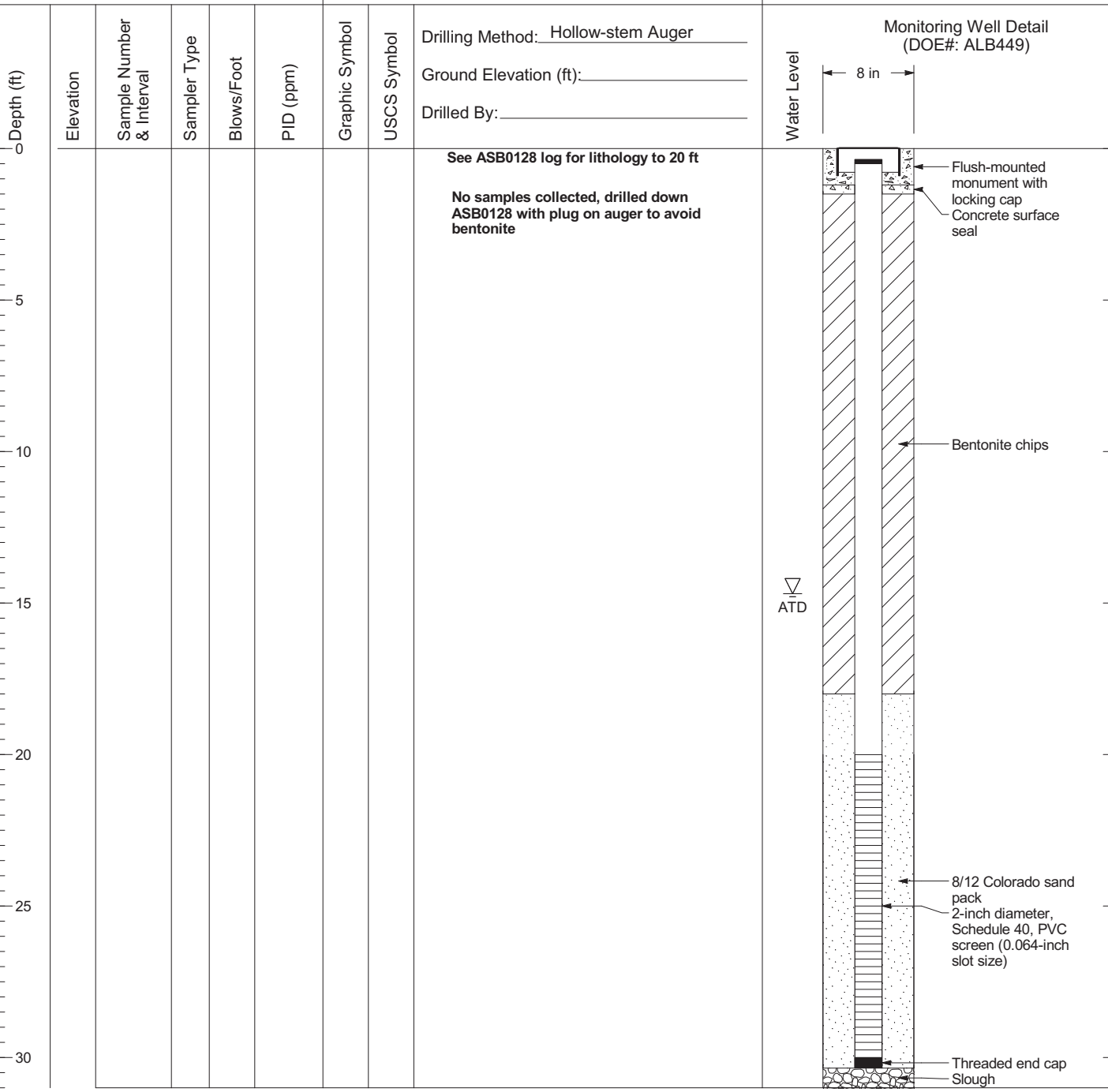


# AGW114

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 06/04/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 06/04/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.45 ft.  
Total Depth of Monitoring Well = 31.0 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. DOE Unique Well Number: ALB449

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

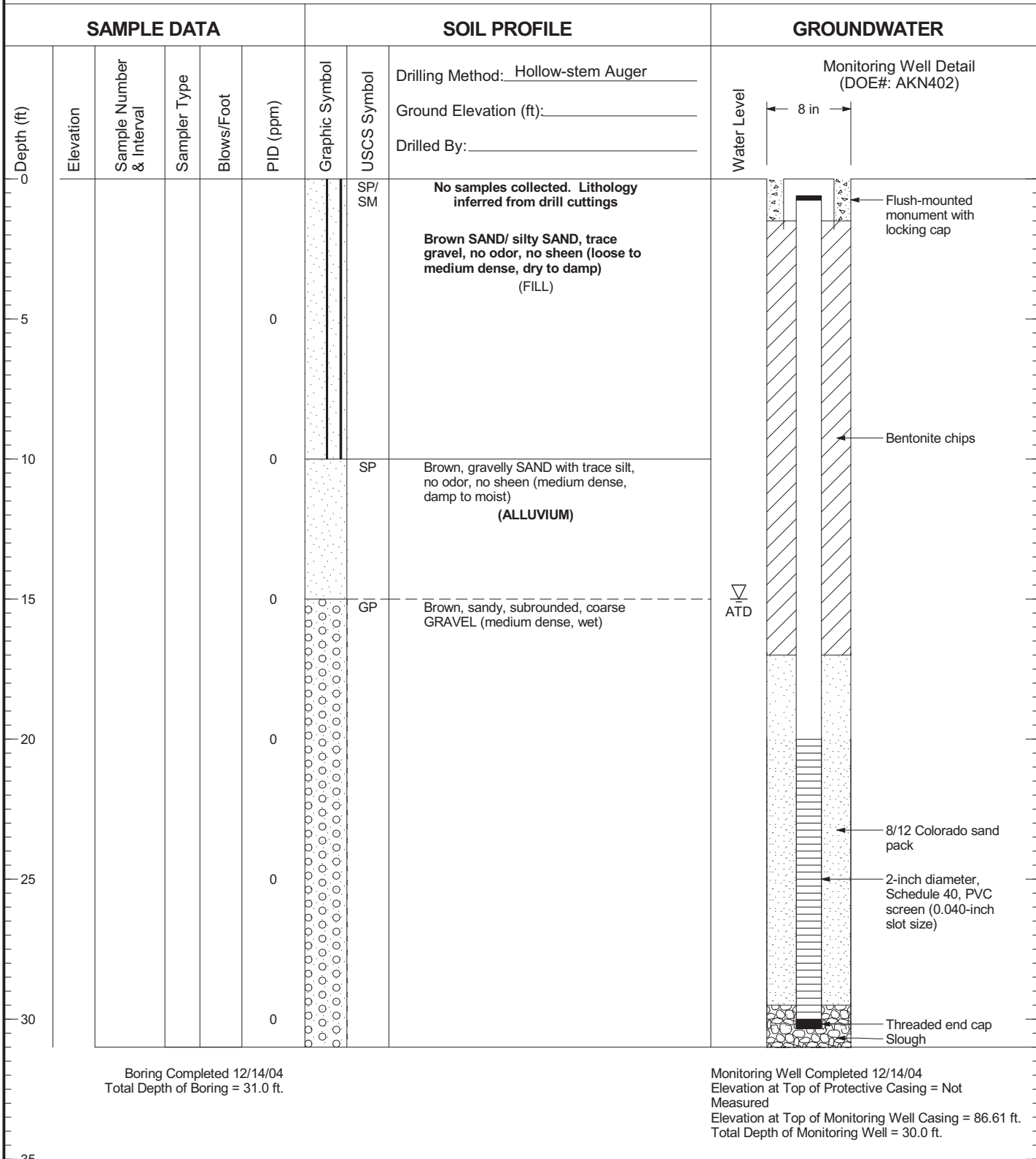


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Auburn, Washington

Log of Monitoring Well AGW114

Figure  
C-299

# AGW122



Boring Completed 12/14/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 12/14/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.61 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: AKN402

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



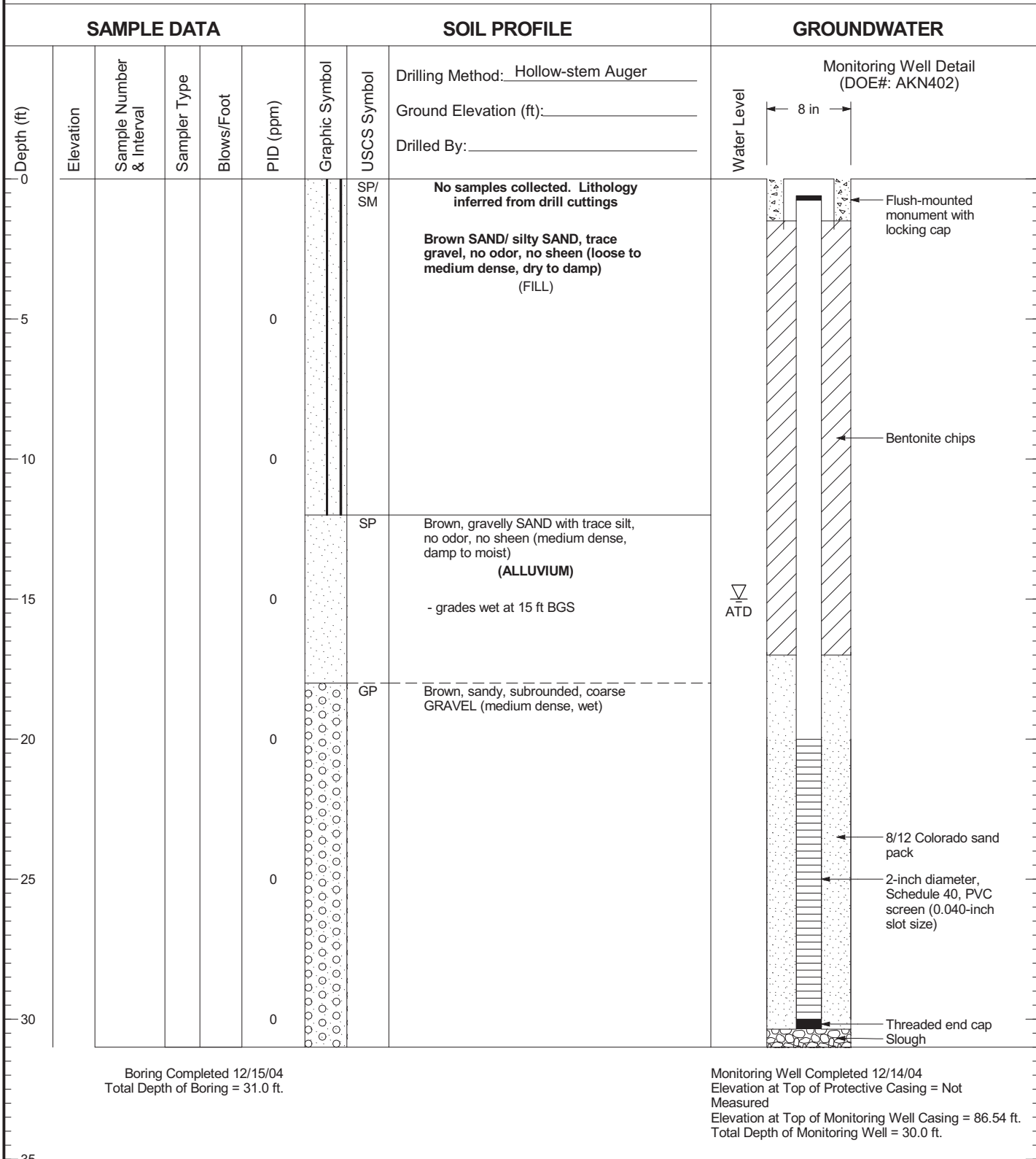
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Auburn, Washington

## Log of Monitoring Well AGW122

Figure  
C-300



# AGW123



Boring Completed 12/15/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 12/14/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.54 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: AKN402

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

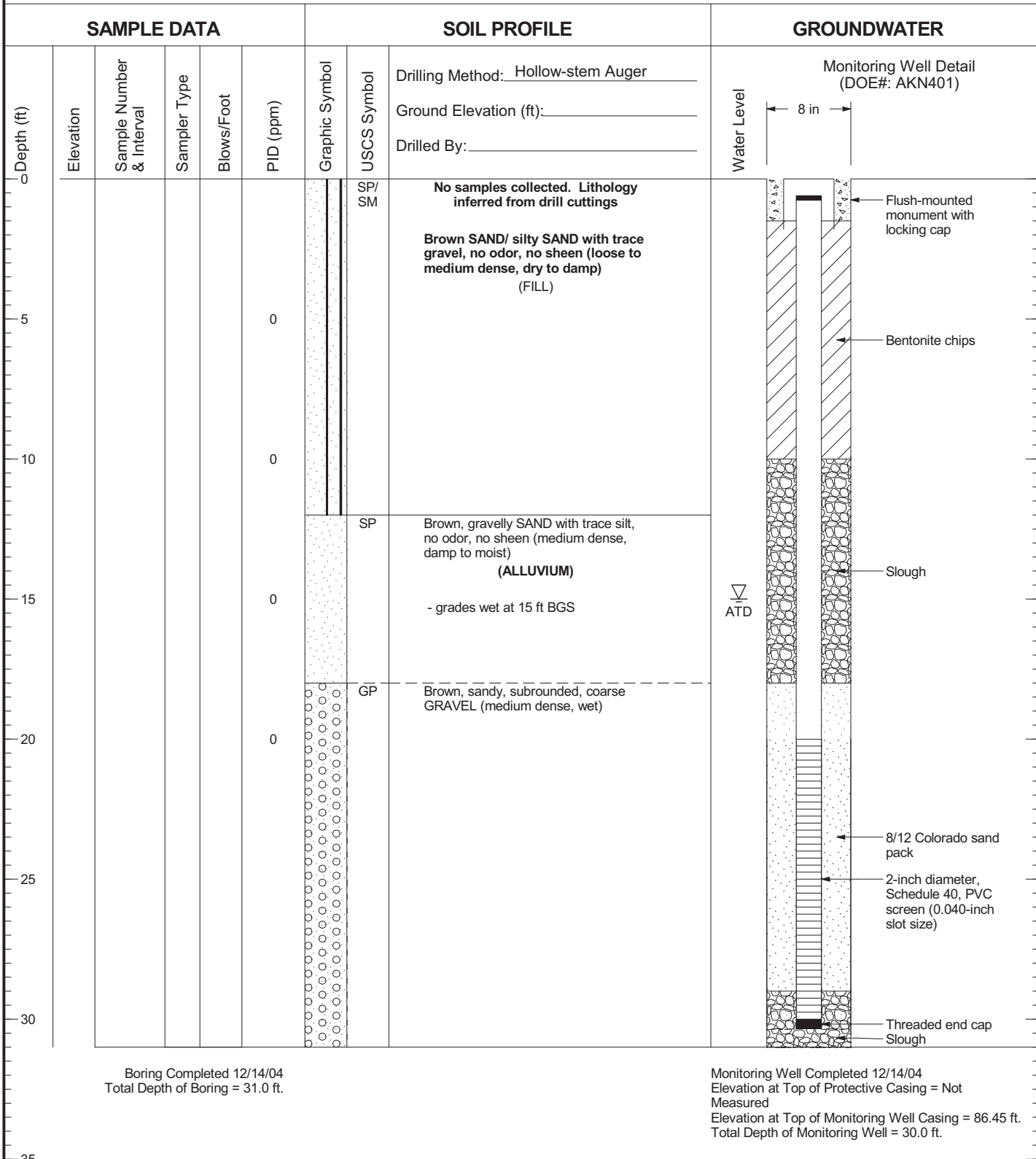


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Auburn, Washington

Log of Monitoring Well AGW123

Figure  
C-301

# AGW124



Boring Completed 12/14/04  
Total Depth of Boring = 31.0 ft.

Monitoring Well Completed 12/14/04  
Elevation at Top of Protective Casing = Not Measured  
Elevation at Top of Monitoring Well Casing = 86.45 ft.  
Total Depth of Monitoring Well = 30.0 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. DOE Unique Well Number: AKN401

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

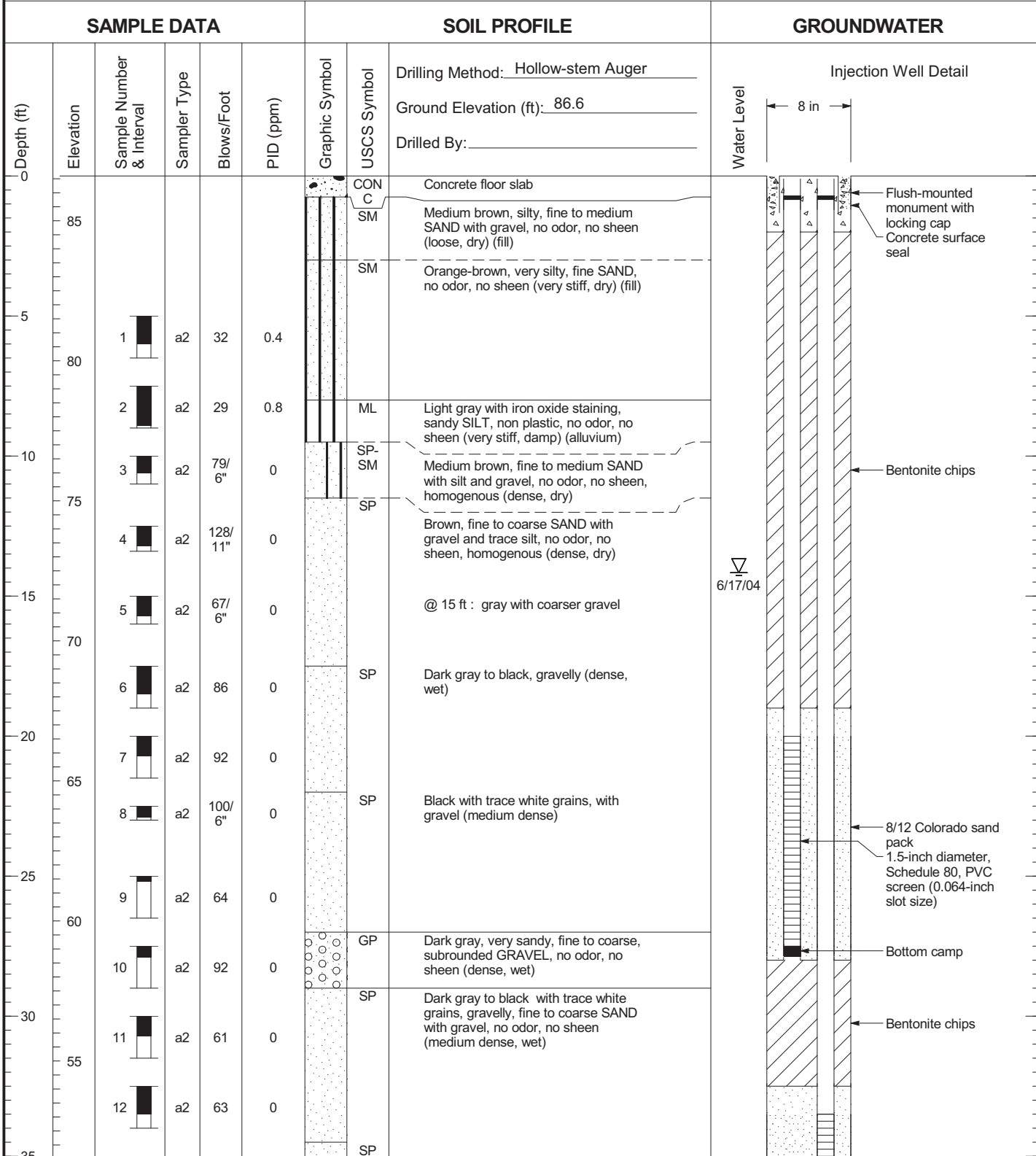


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Log of Monitoring Well AGW124

Figure  
C-302

# IW1



025164 - 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN903

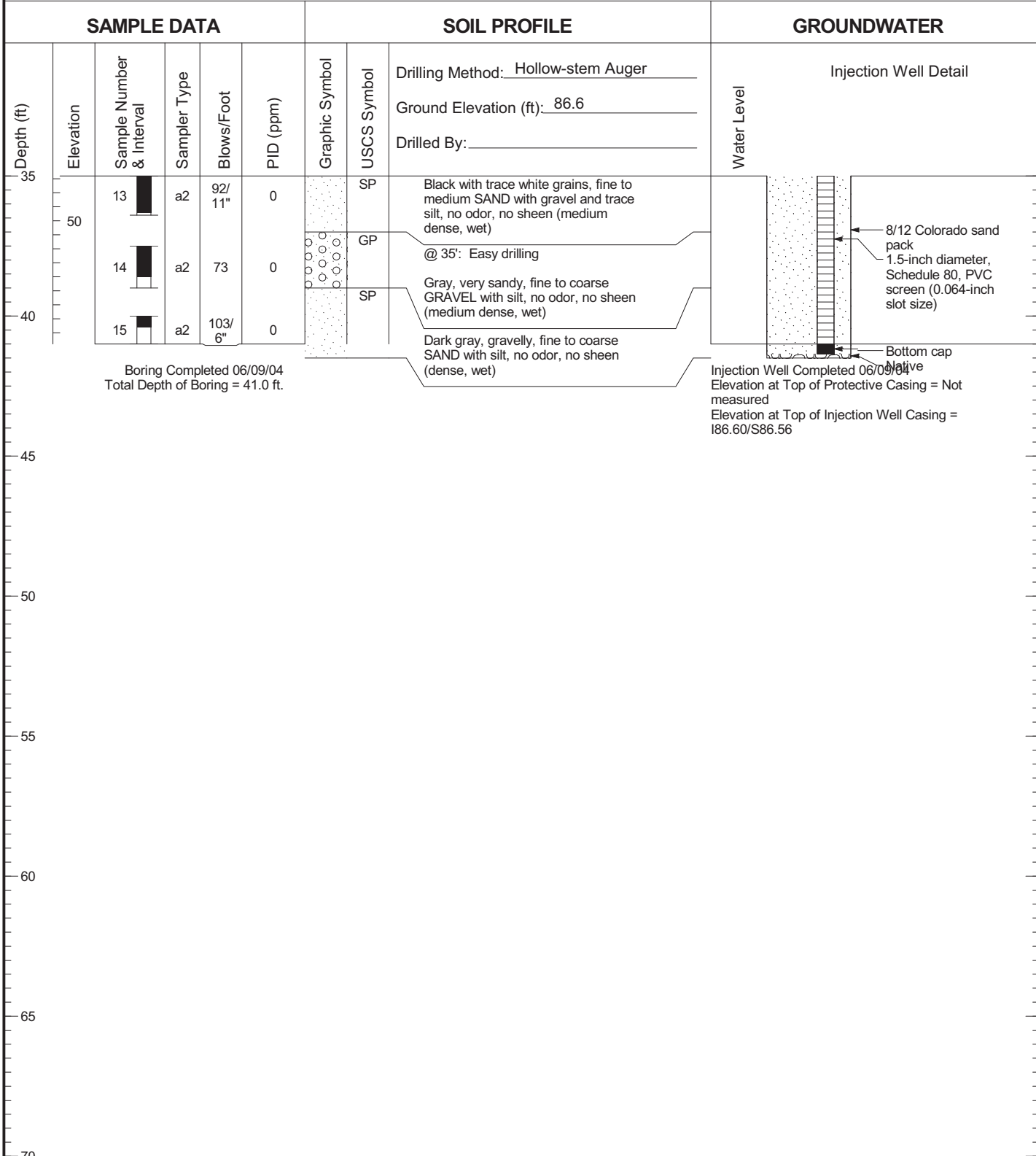


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Auburn, Washington

Log of Injection Well IW1

Figure  
C-303  
(1 of 2)

# IW1



- 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. DOE Well ID# AKN903

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



# IW2

SAMPLE DATA						SOIL PROFILE		GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail	
Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.55</u> Drilled By: _____								Water Level 	
0	85				0			No samples collected. Drill cuttings filed screened.	
5	80				0				
10	75				0				
15	70				0				
20	65				0				
25	60				0				
30	55				0				
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. DOE Well ID# AKN905

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW2

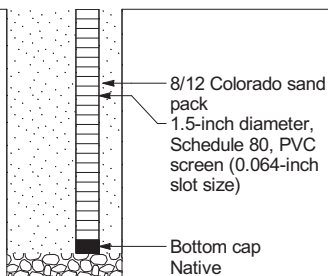
Figure  
C-304  
(1 of 2)

# IW2

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail		
35					0			Ground Elevation (ft): <u>86.55</u>				
50								Drilled By: _____				
40					0			No samples collected. Drill cuttings filed screened.				
45												

Boring Completed 06/10/04  
Total Depth of Boring = 42.0 ft.

Injection Well Completed 06/10/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.55/S86.63

- 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. DOE Well ID# AKN905

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

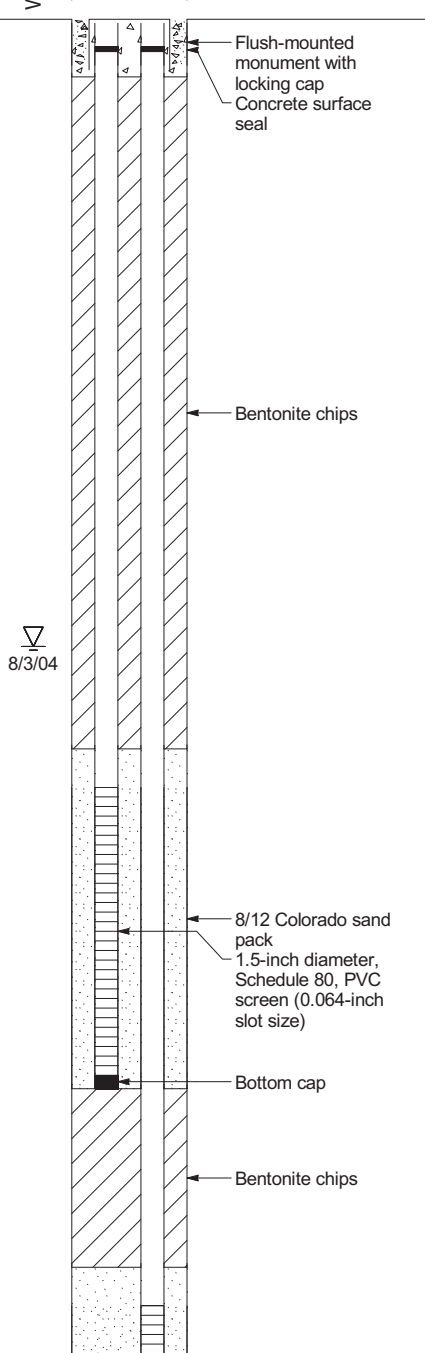


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Investigation  
Auburn, Washington

## Log of Injection Well IW2

Figure  
C-304  
(2 of 2)

# IW3

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.49</u> Drilled By: _____	Injection Well Detail Water Level <span style="margin-left: 20px;">← 8 in →</span>	
0								No samples collected. Drill cuttings filed screened.	 <p>The diagram shows a cross-section of the injection well IW3. The well casing is shown with a diameter of 8 inches. At the top, there is a flush-mounted monument with a locking cap and a concrete surface seal. Below the seal, there is a section of bentonite chips. Further down, there is an 8/12 Colorado sand pack. A 1.5-inch diameter, Schedule 80, PVC screen with a 0.064-inch slot size is installed within the sand pack. Below the screen is a bottom cap, and another section of bentonite chips is located below the cap. The water level is indicated by a downward-pointing triangle symbol at an elevation of 8/3/04.</p>	
85					0					
5					0					
80					0					
10					0					
75					0					
15					0					
70					0					
20					0					
65					0					
25					0					
60					0					
30					0					
55					0					
35					0					

- 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. DOE Well ID# AKN908

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



# IW3

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail
	35				0			Ground Elevation (ft): <u>86.49</u>		
					0			No samples collected. Drill cuttings filed screened.		

Boring Completed 06/16/04  
Total Depth of Boring = 42.0 ft.

Injection Well Completed 06/16/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.49/S86.47

- 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. DOE Well ID# AKN908

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW3

Figure  
C-305  
(2 of 2)



# IW4

SAMPLE DATA						SOIL PROFILE		GROUNDWATER			
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.49</u>	Drilled By: _____	Injection Well Detail
0											Water Level
5					0						8 in
10					0			No samples collected. Drill cuttings field screened			Flush-mounted monument with locking cap Concrete surface seal
15					0						Bentonite chips
20					0						ATD
25					0			Broken well casing. Well is filled to 24.6 ft. Approximately 5 ft of exposed screen.			8/12 Colorado sand pack 1.5-inch diameter, Schedule 80, PVC screen (0.064-inch slot size)
30					0						Bottom cap
35					0						Bentonite chips

- 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. DOE Well ID# AKN912

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW4

Figure  
C-306  
(1 of 2)

# IW4

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail		
35					0			Ground Elevation (ft): <u>86.49</u>				
50							No samples collected. Drill cuttings field screened					
40					0							
45												

Boring Completed 06/18/04  
Total Depth of Boring = 42.0 ft.

Injection Well Completed 06/10/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.49/S86.48

- 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. DOE Well ID# AKN912

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

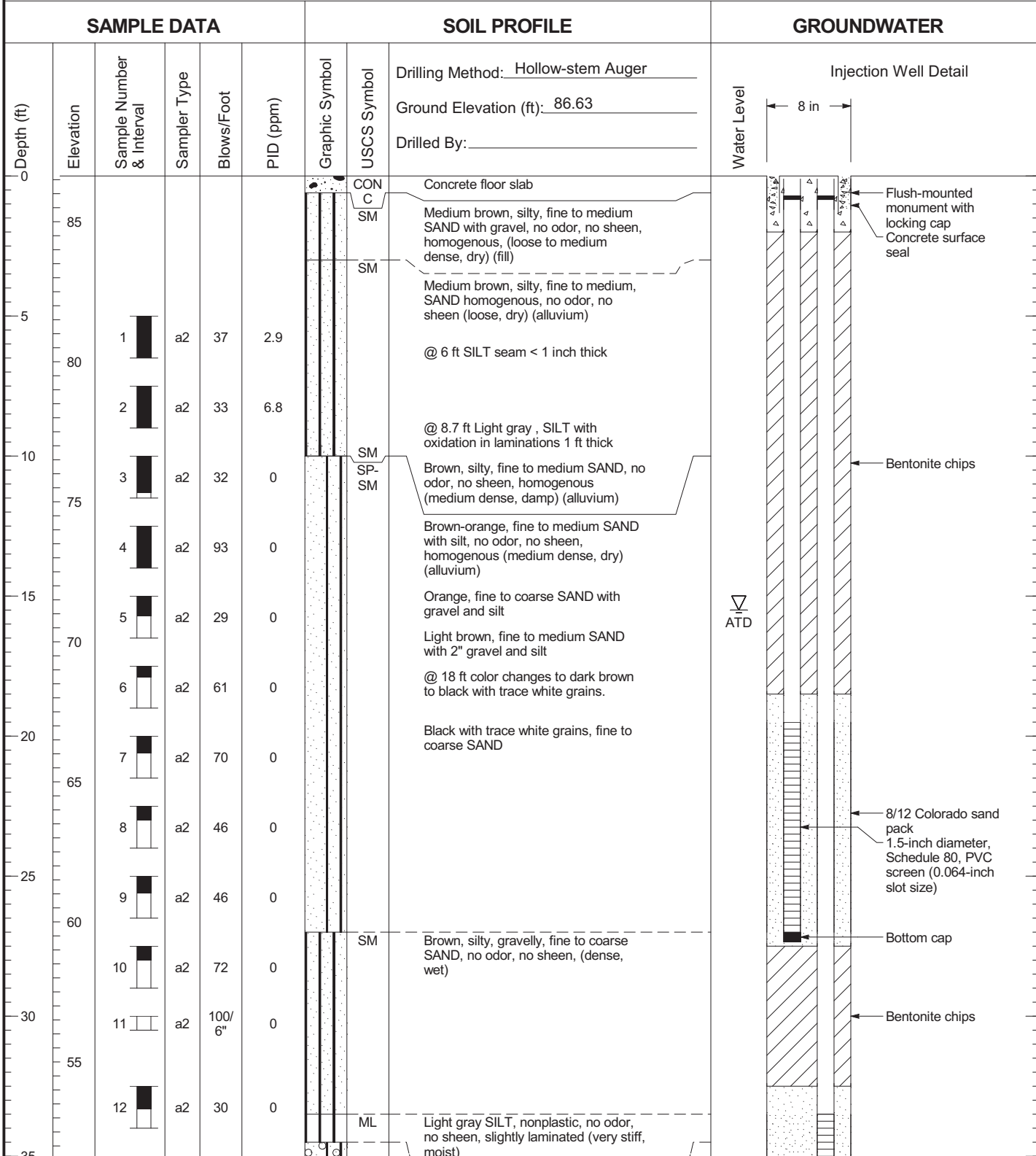


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Auburn, Washington

### Log of Injection Well IW4

Figure  
C-306  
(2 of 2)

# IW5



- 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. DOE Well ID# AKN904

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

Log of Injection Well IW5

Figure  
C-307  
(1 of 2)

# IW5

SAMPLE DATA						SOIL PROFILE			GROUNDWATER		
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail	
	35	13	a2	60	0	GP-GM	Light brown, sandy, subrounded coarse, GRAVEL with silt, no odor, no sheen (medium dense, wet)	Ground Elevation (ft): <u>86.63</u>			
	50	14	a2	59	0	SP-SM	Light brown to gray, gravelly SAND with silt, no odor, no sheen, (medium dense, wet)	Drilled By: _____			
	40	15	a2	61	0	SP-SM	Light brown to gray, gravelly SAND with silt, no odor, no sheen, (medium dense, wet)				
	45	16	a2	53	0	SP-SM	SAMPLER BROKE OFF DOWN HOLE NO RETRIEVAL/RECOVERY				
45	Boring Completed 06/09/04 Total Depth of Boring = 44.0 ft.					Injection Well Completed 06/10/04 Elevation at Top of Protective Casing = Not measured Elevation at Top of Injection Well Casing = 186.63/S86.61					
50											
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. DOE Well ID# AKN904

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW5

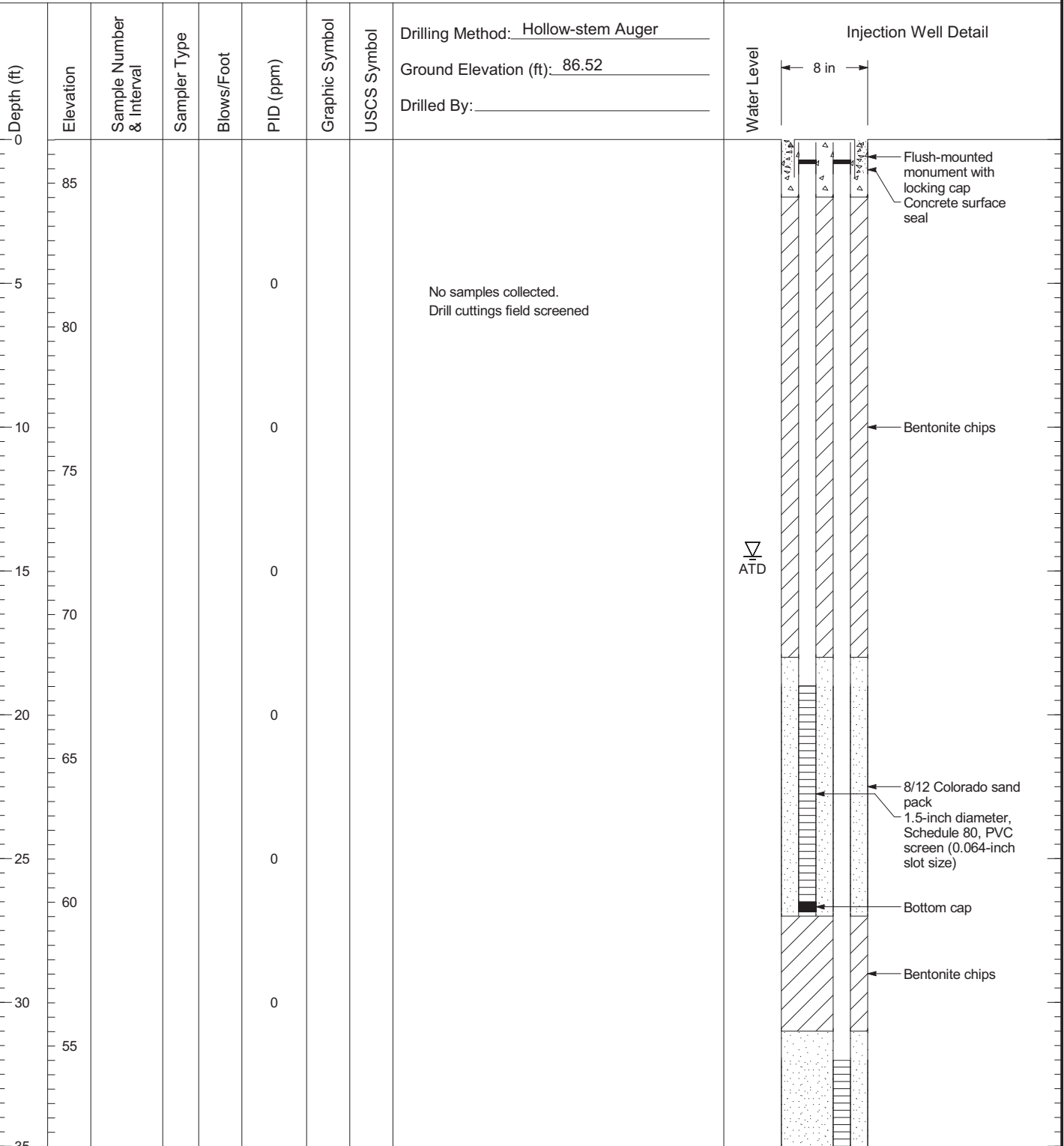
Figure  
C-307  
(2 of 2)

# IW6

## 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. DOE Well ID# AKN927

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW6

Figure  
C-308  
(1 of 2)

# IW6

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.52</u> Drilled By: _____	Water Level	Injection Well Detail
35					0					
50										
40										
45										
50										
55										
60										
65										
70										

Boring Completed 06/29/04  
Total Depth of Boring = 40.0 ft.

Injection Well Completed 06/29/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.52/S86.55

- 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. DOE Well ID# AKN927

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW6

Figure  
C-308  
(2 of 2)

# IW7

SAMPLE DATA						SOIL PROFILE		GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol		
								Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.44</u> Drilled By: _____	
0								Water Level	Injection Well Detail
5					0			8 in	Flush-mounted monument with locking cap Concrete surface seal
10					0				Bentonite chips
15					0			▽ ATD	
20					0				8/12 Colorado sand pack 1.5-inch diameter, Schedule 80, PVC screen (0.064-inch slot size) Bottom cap
25					0				Bentonite chips
30					0				8/12 Colorado sand pack 1.5-inch diameter,
35									

No samples collected.  
Drill cuttings field screened

- 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. DOE Well ID# AKN926

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

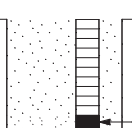


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Log of Injection Well IW7

Figure  
C-309  
(1 of 2)

# IW7

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail	
	35				0			Drilling Method: <u>Hollow-stem Auger</u>	Water Level
50							Ground Elevation (ft): <u>86.44</u>	Drilled By: _____	
40	Boring Completed 06/28/04 Total Depth of Boring = 38.0 ft.							Injection Well Completed 06/28/04 Elevation at Top of Protective Casing = Not measured Elevation at Top of Injection Well Casing = 186.44/S86.43	
45									
50									
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. **DOE Well ID# AKN926**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



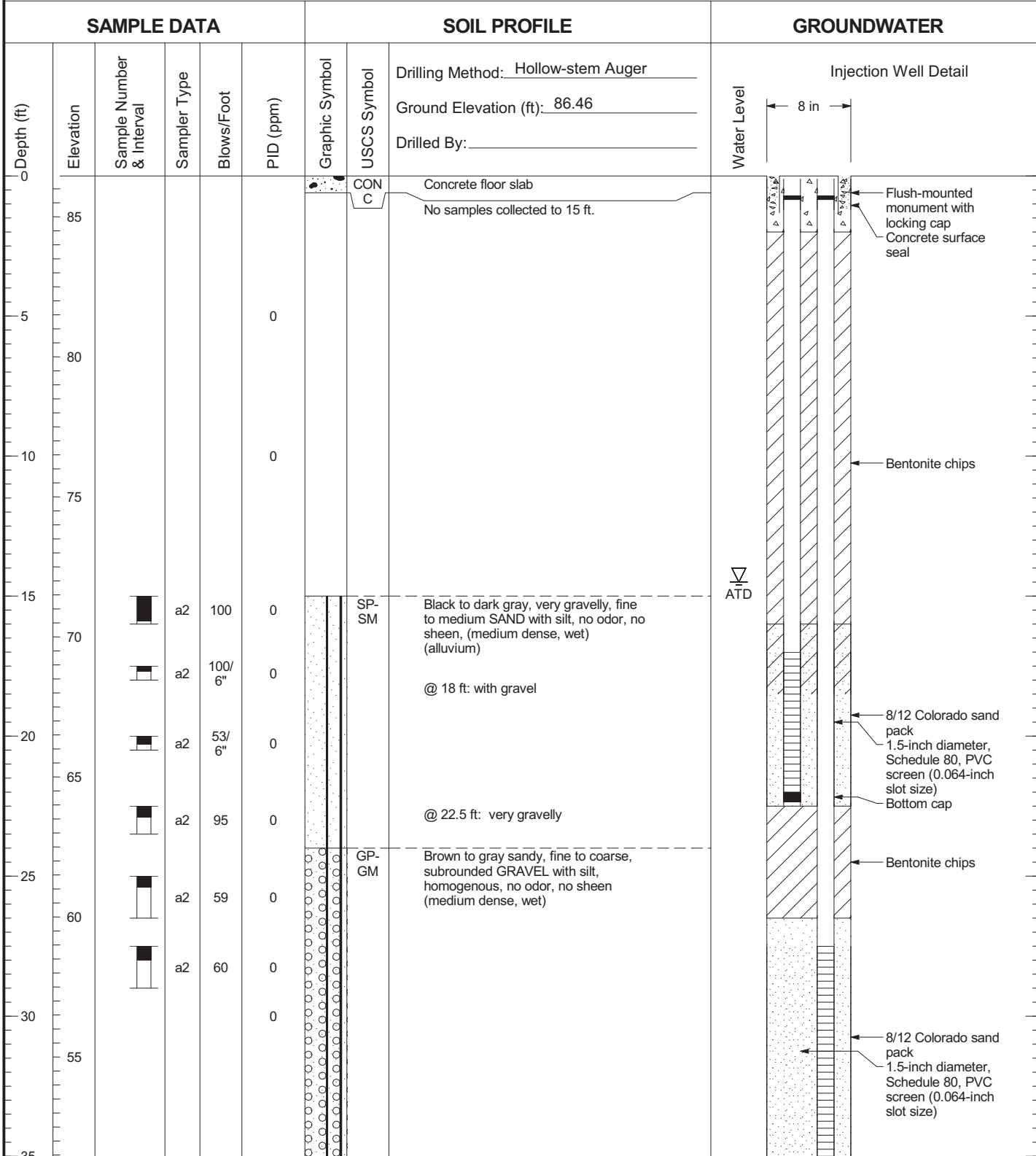
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW7

Figure  
C-309  
(2 of 2)



# IW8



- 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. DOE Well ID# AKN911

025164 - 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW8

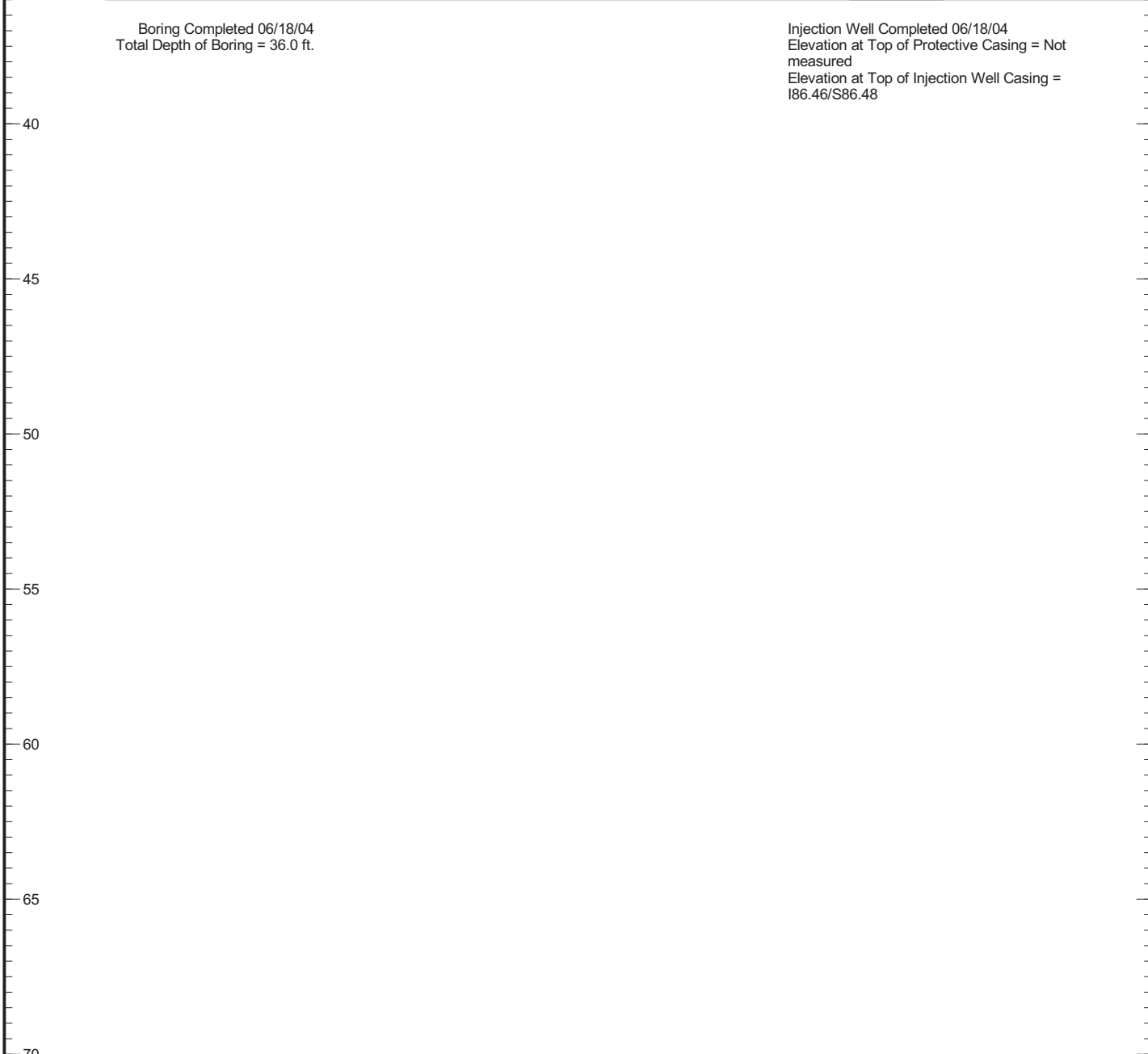
Figure  
C-310  
(1 of 2)

# IW8

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail
					0	o o o o o		Ground Elevation (ft): <u>86.46</u>		

Boring Completed 06/18/04  
Total Depth of Boring = 36.0 ft.

Injection Well Completed 06/18/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.46/S86.48



- 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. DOE Well ID# AKN911

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

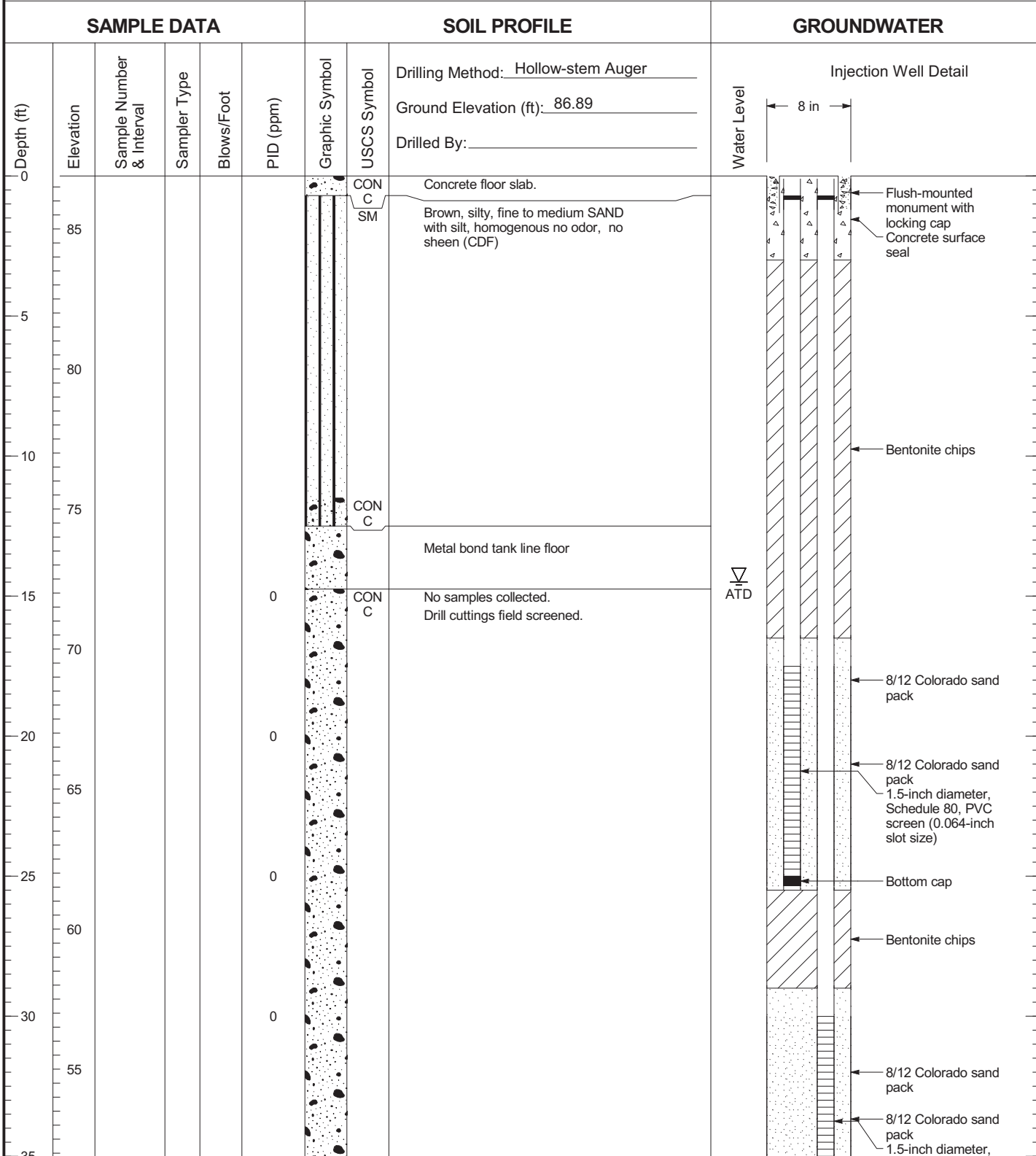


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Auburn, Washington

Log of Injection Well IW8

Figure  
C-310  
(2 of 2)

# IW9



- 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. DOE Well ID# AKN919

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



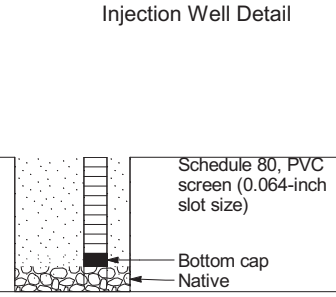
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW9

Figure  
C-311  
(1 of 2)

# IW9

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>		
	35				0	[Symbol]	CON	Ground Elevation (ft): <u>86.89</u>		
	50					[Symbol]	C	Drilled By: _____		
								No samples collected. Drill cuttings field screened.		



Boring Completed 06/24/04  
Total Depth of Boring = 38.5 ft.

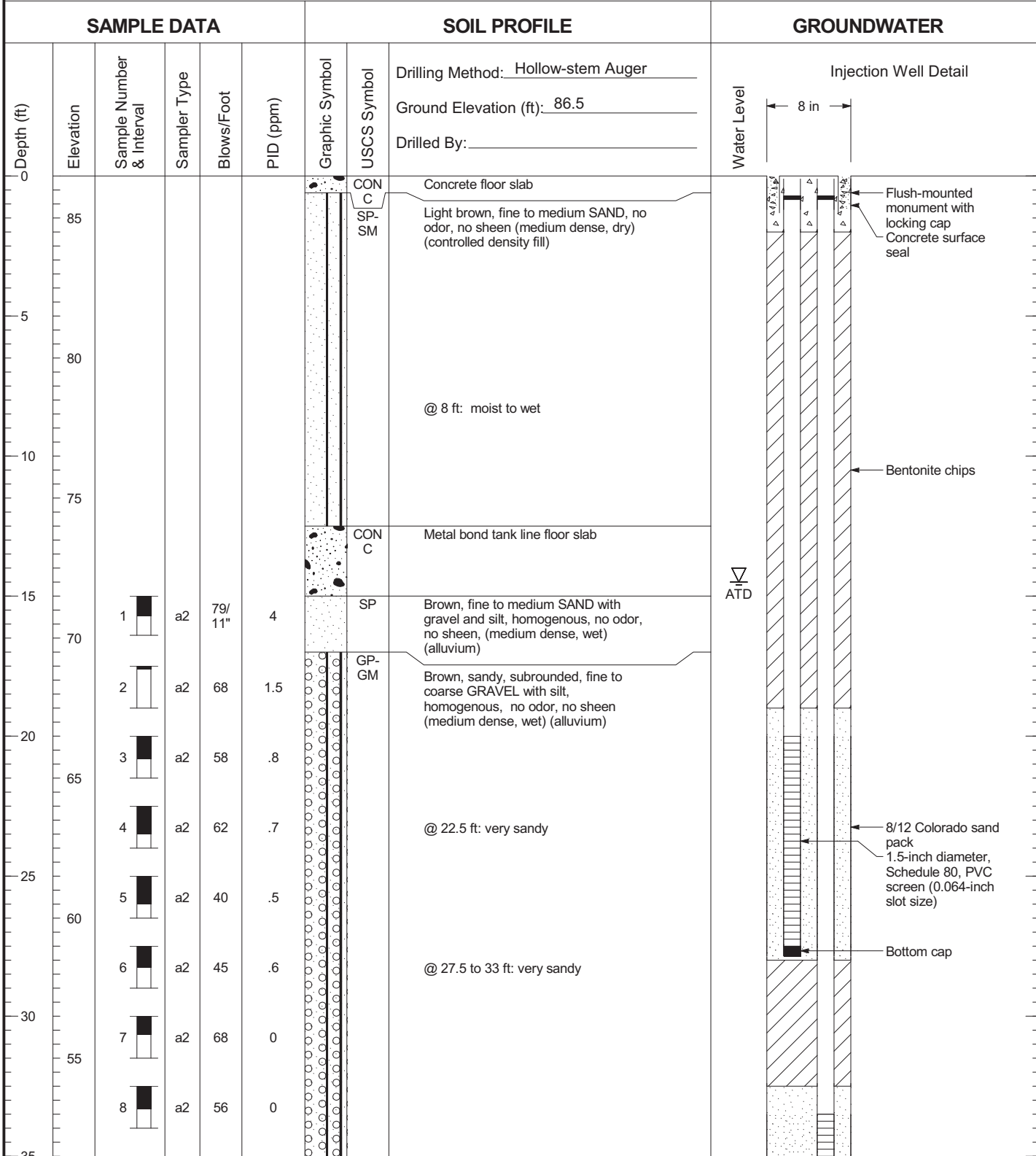
Injection Well Completed 06/24/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.89/S86.14

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN919



# IW10



- 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. DOE Well ID# AKN910

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW10

Figure  
C-312  
(1 of 2)

# IW10

## SAMPLE DATA

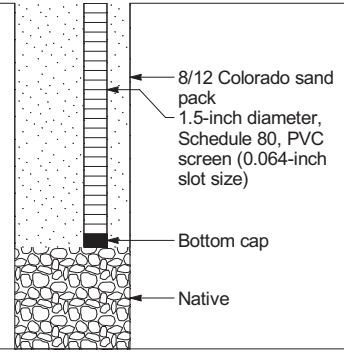
## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>		Water Level	Injection Well Detail		
								Ground Elevation (ft): <u>86.5</u>			Drilled By: _____		
35													
50		9	a2	37	0	(Symbol: circles)	GP-GM	Brown, sandy, subrounded, fine to coarse GRAVEL with silt, homogenous, no odor, no sheen (medium dense, wet) (alluvium)  @37.5 ft: sandy					
40		10	a2	73	0	(Symbol: circles)							
45		11	a2	86	0	(Symbol: circles)							

Boring Completed 06/17/04  
Total Depth of Boring = 44.0 ft.

Injection Well Completed 06/17/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.50/S86.52



- 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. DOE Well ID# AKN910

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

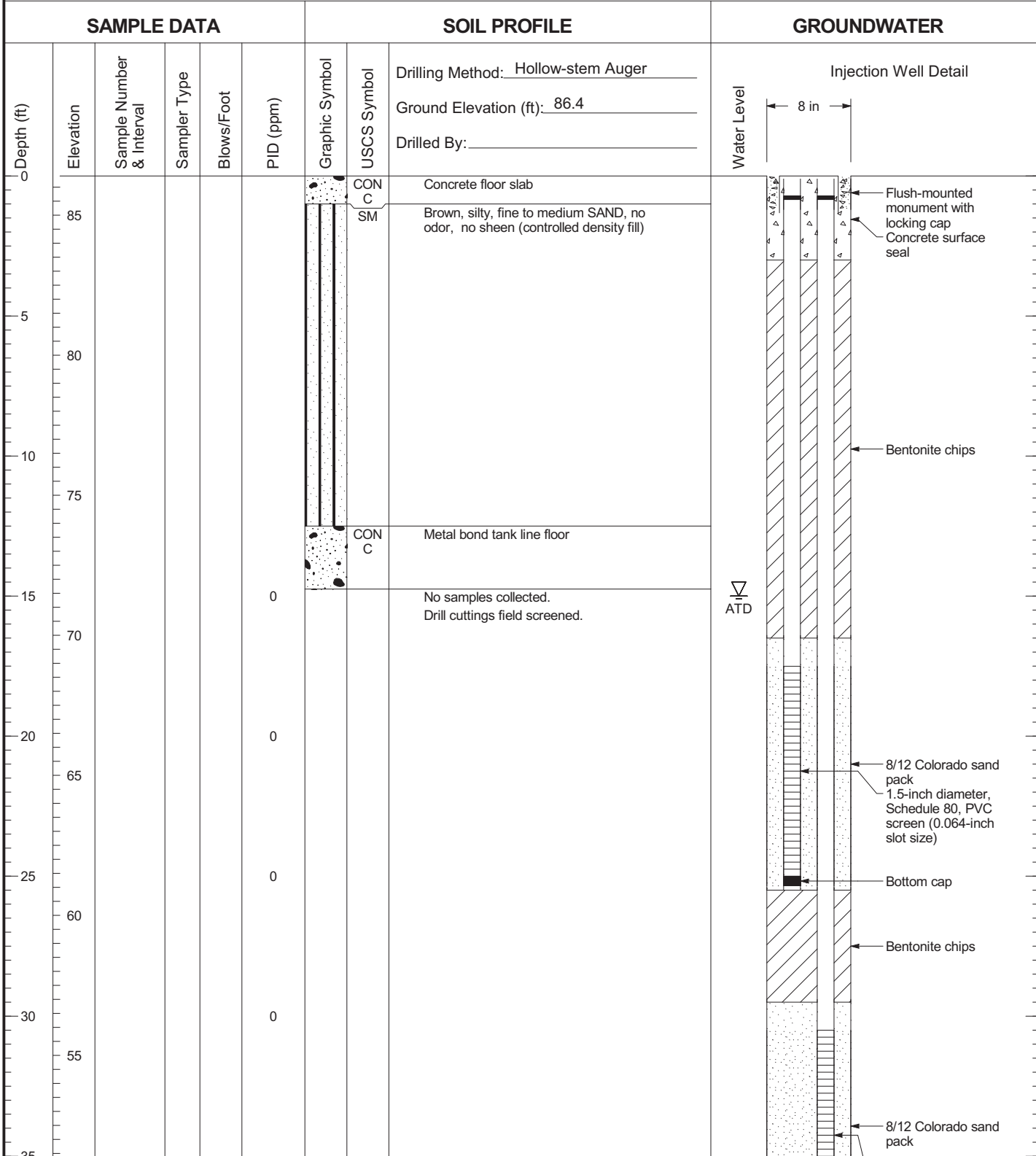


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Investigation  
Auburn, Washington

Log of Injection Well IW10

Figure  
C-312  
(2 of 2)

# IW11



- 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. DOE Well ID# AKN918

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

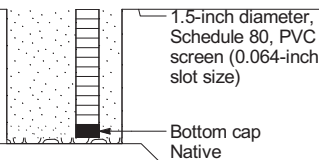


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Auburn, Washington

Log of Injection Well IW11

Figure  
C-313  
(1 of 2)

# IW11

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail		
	35				0			Drilling Method: <u>Hollow-stem Auger</u>	Water Level	
50							No samples collected. Drill cuttings field screened.			
40	Boring Completed 06/24/04 Total Depth of Boring = 38.5 ft.						Injection Well Completed 06/24/04 Elevation at Top of Protective Casing = Not measured Elevation at Top of Injection Well Casing = 186.40/S86.42			
45										
50										
55										
60										
65										
70										

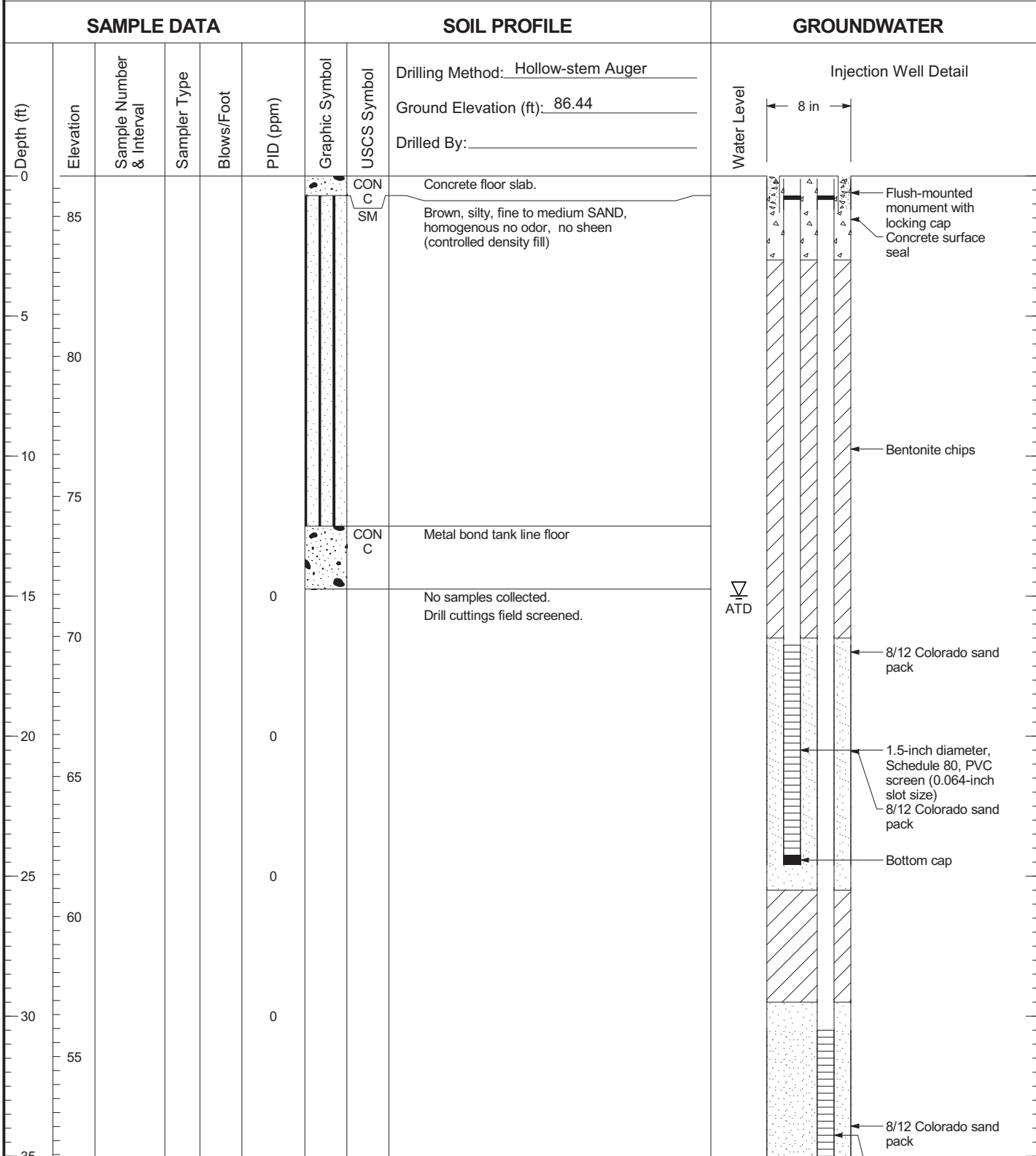
- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.
  4. DOE Well ID# AKN918

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION





# IW12



- 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. DOE Well ID# AKN917

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

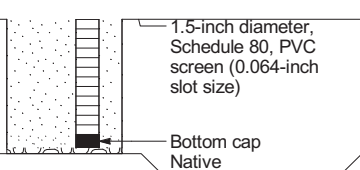


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Auburn, Washington

Log of Injection Well IW12

Figure  
C-314  
(1 of 2)

# IW12

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail 		
	35				0					
50								No samples collected. Drill cuttings field screened.		

Boring Completed 06/23/04  
Total Depth of Boring = 38.5 ft.

Injection Well Completed 06/23/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.44/S86.54

- 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. DOE Well ID# AKN917

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

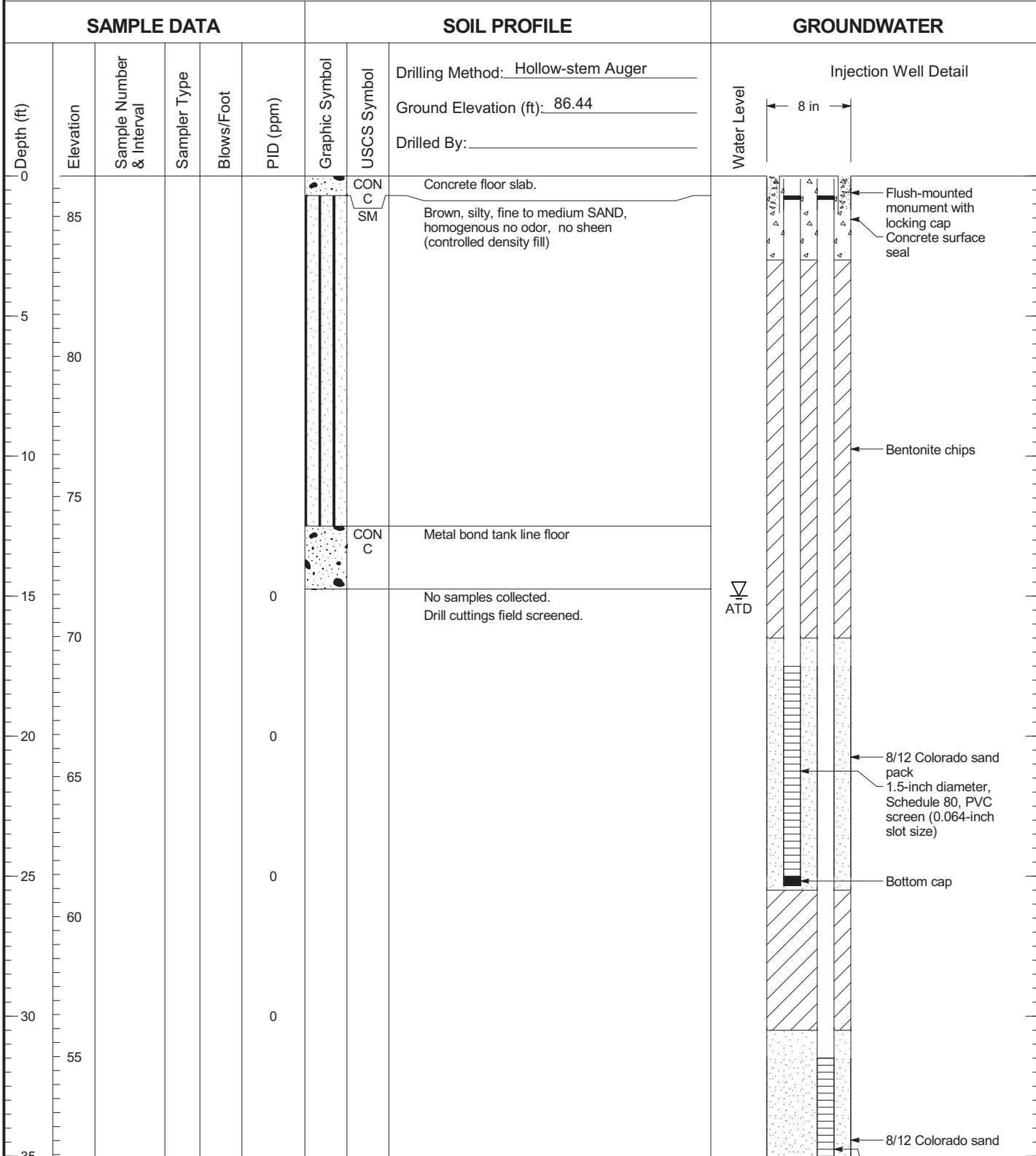


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Investigation  
Auburn, Washington

Log of Injection Well IW12

Figure  
C-314  
(2 of 2)

# IW13



- 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. DOE Well ID# AKN916

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

Log of Injection Well IW13

Figure  
C-315  
(1 of 2)

# IW13

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail 		
	35				0					
50							No samples collected. Drill cuttings field screened.			

Boring Completed 06/22/04  
Total Depth of Boring = 38.5 ft.

Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.44/S86.46

- 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. DOE Well ID# AKN916

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW13

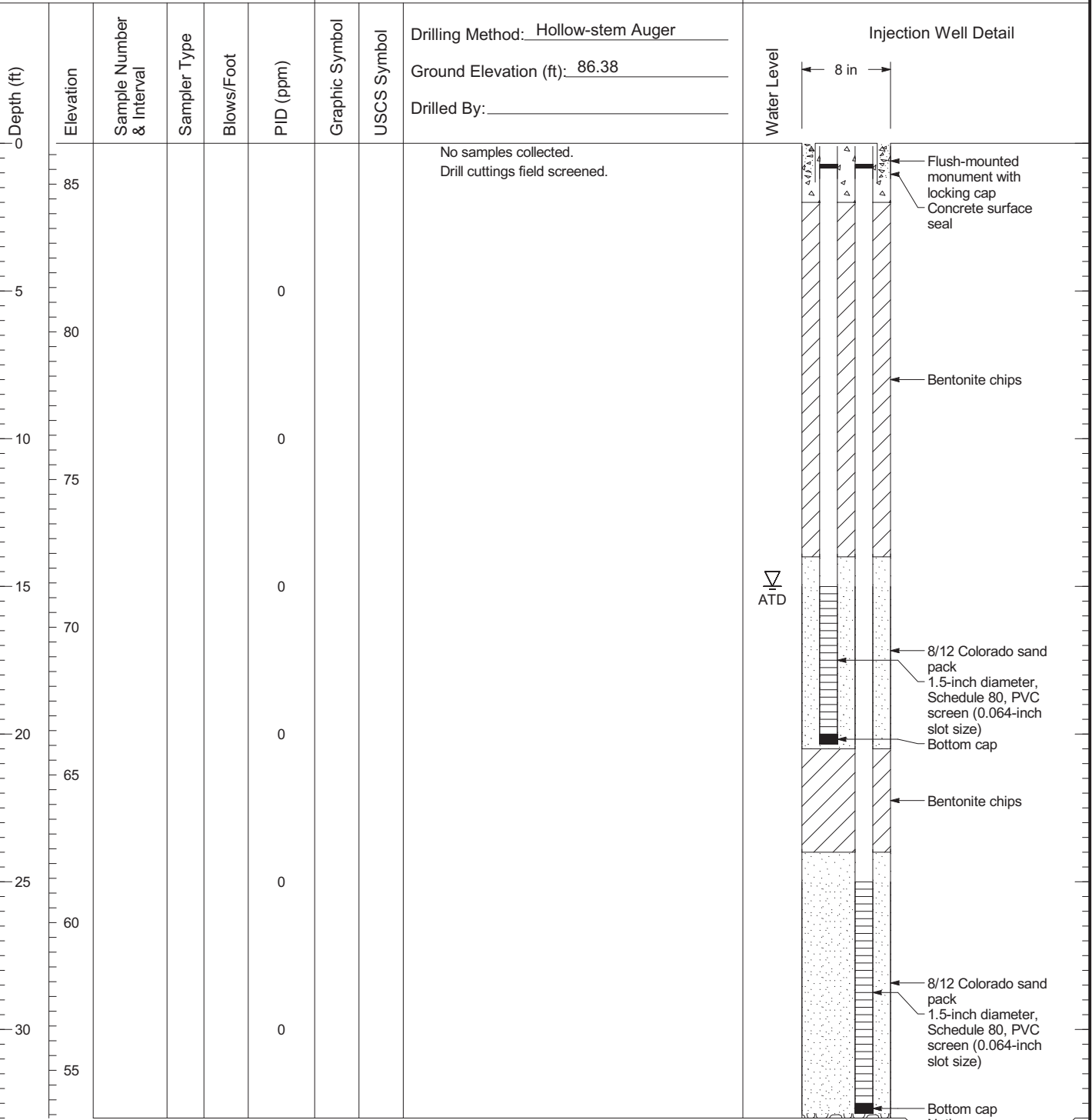
Figure  
C-315  
(2 of 2)

# IW14

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER



Boring Completed 06/28/04  
Total Depth of Boring = 33.0 ft.

Injection Well Completed 06/28/04  
Elevation at Top of Protective Casing = Not

- 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. DOE Well ID# AKN925

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

### Log of Injection Well IW14

Figure  
C-316  
(1 of 2)

# IW14

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.38</u>	Drilled By: _____	Water Level	Injection Well Detail
35												
40												
45												
50												
55												
60												
65												
70												

measured  
Elevation at Top of Injection Well Casing =  
186.38/S86.40

- 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. DOE Well ID# AKN925

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

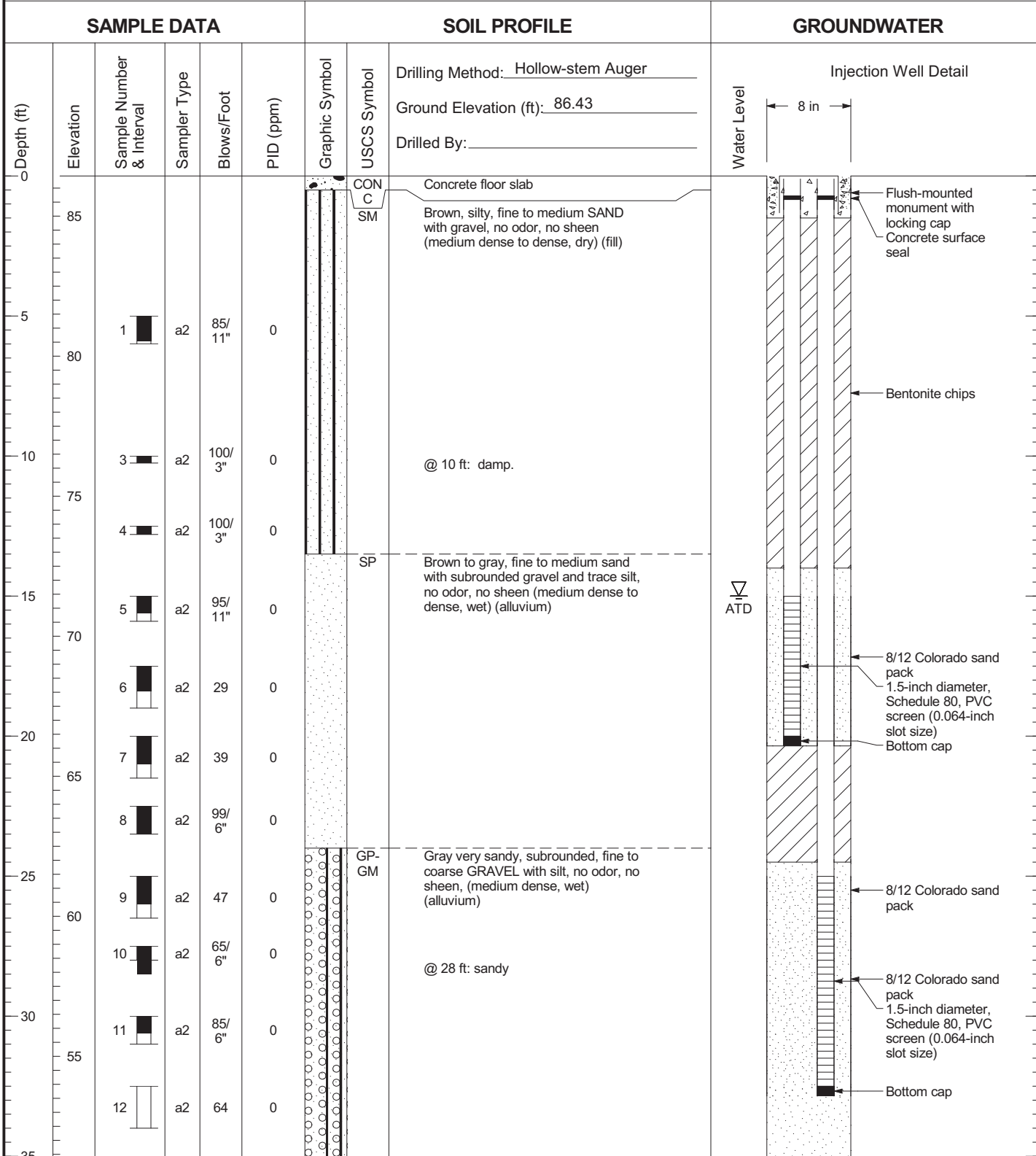


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Investigation  
Auburn, Washington

Log of Injection Well IW14

Figure  
C-316  
(2 of 2)

# IW15



- 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. DOE Well ID# AKN906

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW15

Figure  
C-317  
(1 of 2)

# IW15

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail	
								Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.43</u>
35		13	a2	99/6"	0	●●●●●●●●●●	GP-GM	Gray very sandy, subrounded, fine to coarse GRAVEL with silt, no odor, no sheen, (medium dense, wet) (alluvium)  No cuttings conveyed from 30 to 45          @ 42.5 ft: with sand	
50		14	a2	70	0	●●●●●●●●●●			
40		15	a2	73	0	●●●●●●●●●●			
45		16	a2	47	0	●●●●●●●●●●			

Boring Completed 06/15/04  
Total Depth of Boring = 45.0 ft.

Injection Well Completed 06/15/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.43/S86.43

025164\_5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN906



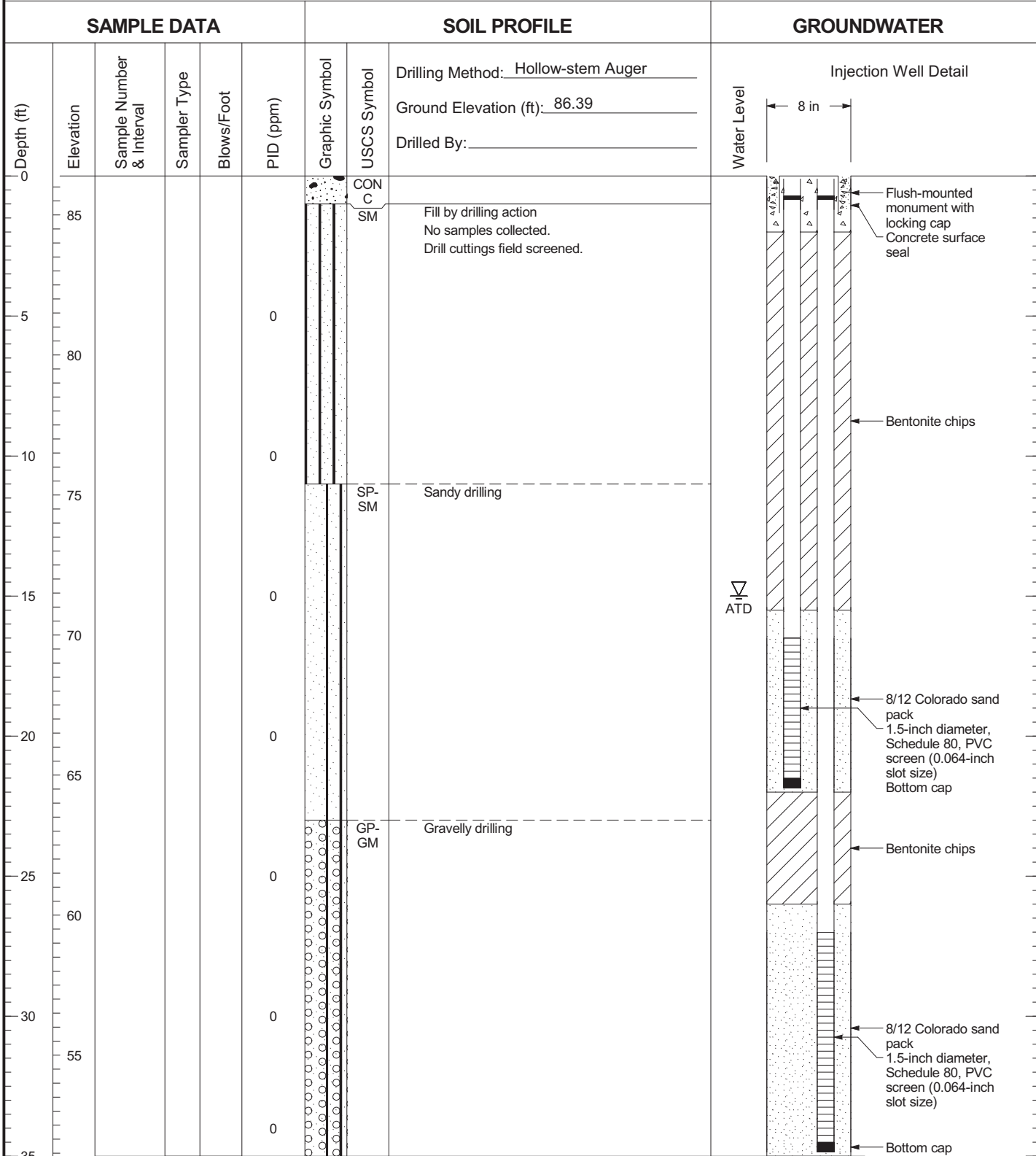
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Investigation  
Auburn, Washington

Log of Injection Well IW15

Figure  
C-317  
(2 of 2)



# IW16



- 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. DOE Well ID# AKN924

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW16

Figure  
C-318  
(1 of 2)

# IW16

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail	
35								Ground Elevation (ft): <u>86.39</u>		Native	
								Drilled By: _____			
		Boring Completed 06/28/04 Total Depth of Boring = 35.0 ft.								Injection Well Completed 06/28/04 Elevation at Top of Protective Casing = Not measured Elevation at Top of Injection Well Casing = 186.39/S86.38	
40											
45											
50											
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. **DOE Well ID# AKN924**

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

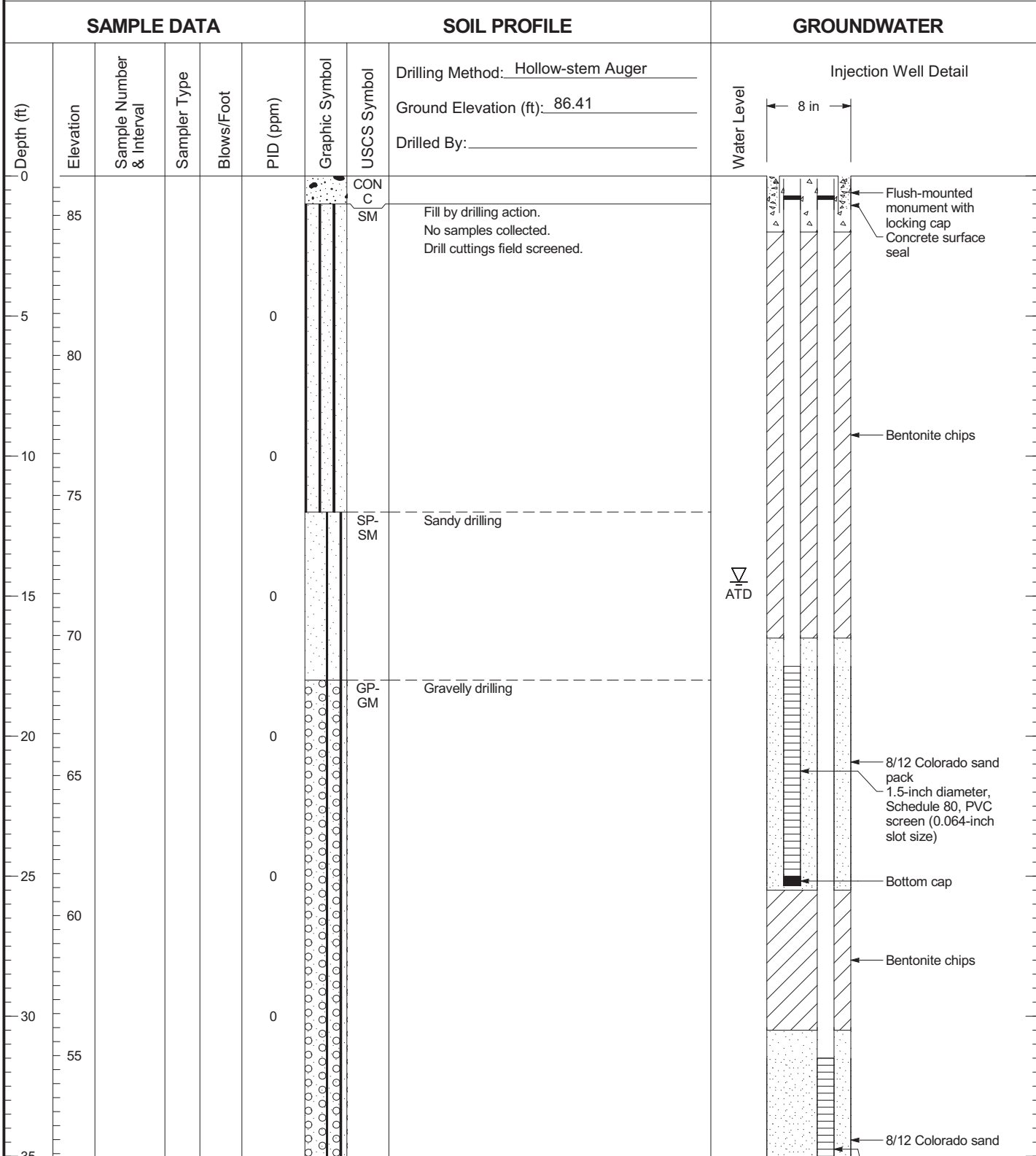


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Auburn, Washington

Log of Injection Well IW16

Figure  
**C-318**  
(2 of 2)

# IW17



- 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. DOE Well ID# AKN923

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW17

Figure  
C-319  
(1 of 2)

# IW17

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level
	Ground Elevation (ft): <u>86.41</u>							Drilled By: _____	
35					0	(Symbol: circles in a column)	GP-GM	Gravelly drilling	Injection Well Detail
50									

Boring Completed 06/25/04  
Total Depth of Boring = 38.5 ft.

Injection Well Completed 06/25/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.41/S86.43

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN923

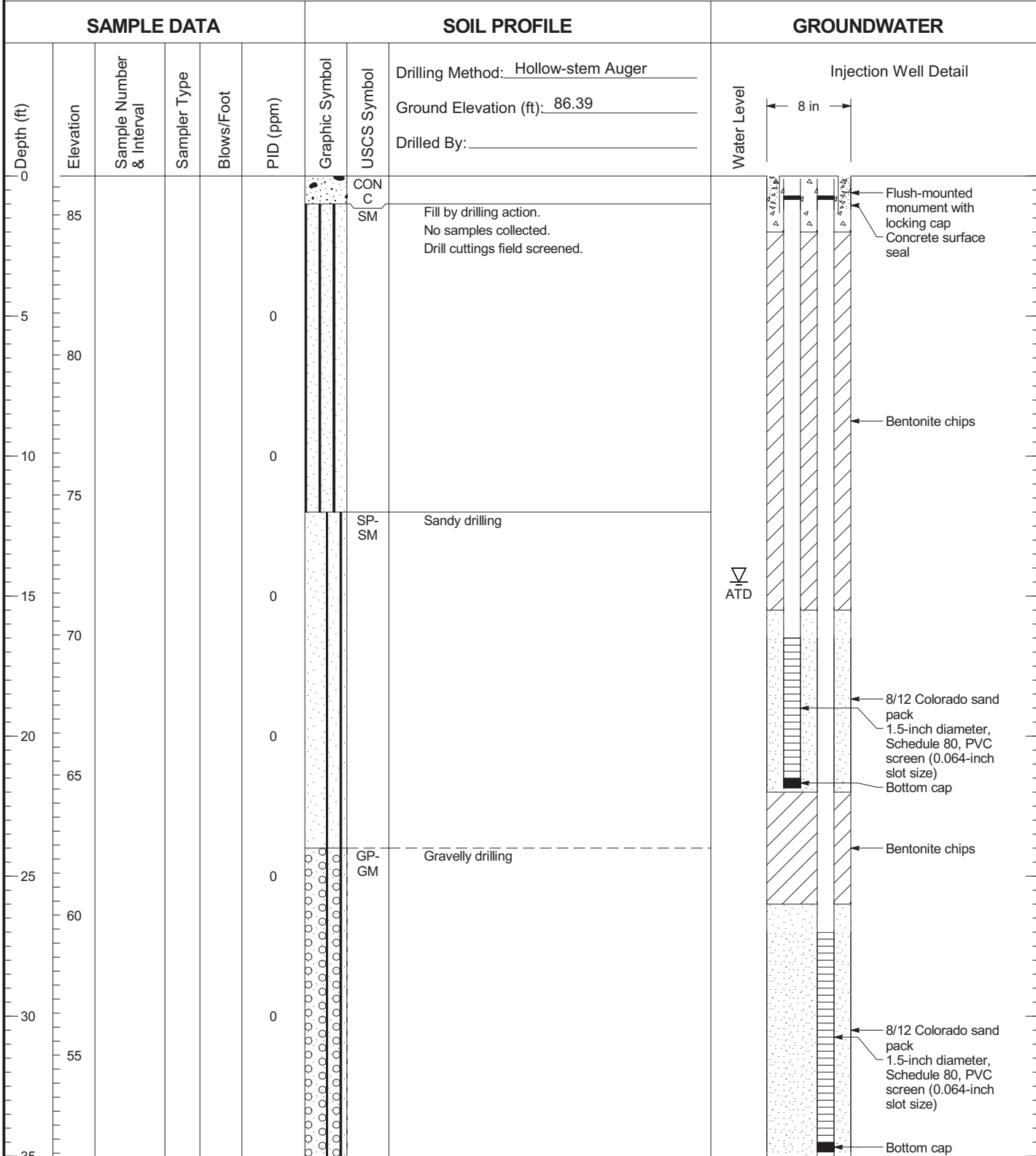


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Auburn, Washington

Log of Injection Well IW17

Figure  
C-319  
(2 of 2)

# IW18



- 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. DOE Well ID# AKN920

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION




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Investigation  
Auburn, Washington

Log of Injection Well IW18

Figure  
C-320  
(1 of 2)

# IW18

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail
	35				0		GP-GM	Ground Elevation (ft): <u>86.39</u>		

Boring Completed 06/24/04  
Total Depth of Boring = 36.5 ft.

Injection Well Completed 06/24/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.39/S86.51

35  
50  
40  
45  
50  
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. DOE Well ID# AKN920

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

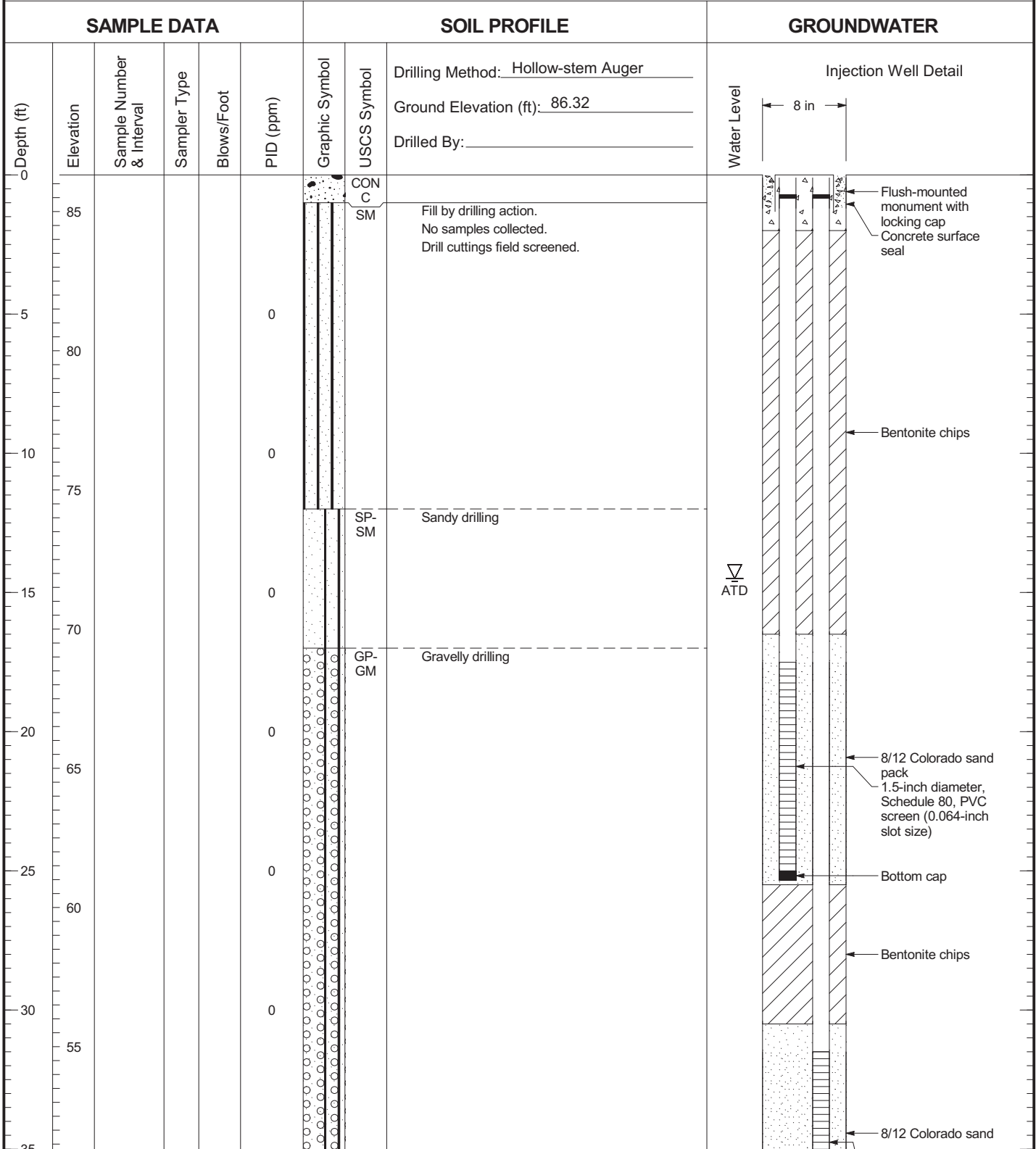


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW18

Figure  
C-320  
(2 of 2)

# IW19



- 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. DOE Well ID# AKN922

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

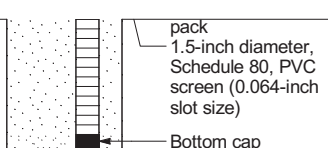


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Investigation  
Auburn, Washington

Log of Injection Well IW19

Figure  
C-321  
(1 of 2)

# IW19

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level
	Ground Elevation (ft): <u>86.32</u>							Drilled By: _____	
35					o	GP-GM	Gravelly drilling		Injection Well Detail
50					o				

Boring Completed 06/25/04  
Total Depth of Boring = 38.5 ft.

Injection Well Completed 06/25/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.32/S86.34

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN922



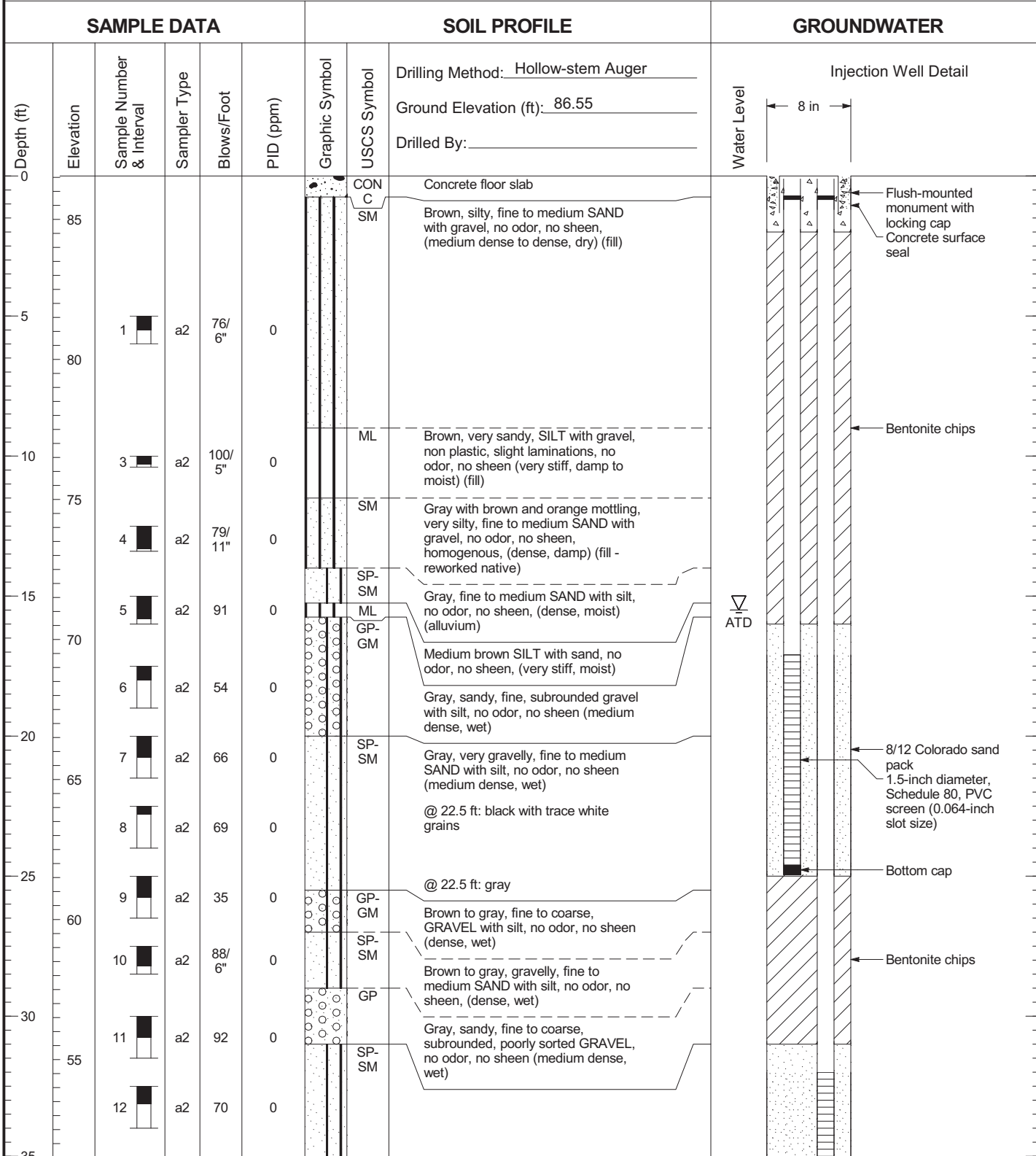
Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW19

Figure  
C-321  
(2 of 2)



# IW20



- 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. DOE Well ID# AKN907

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

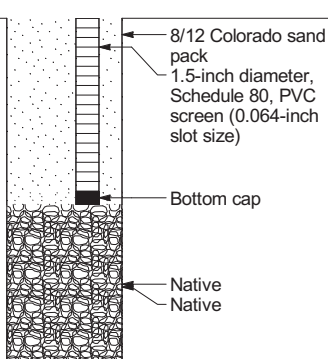


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Log of Injection Well IW20

Figure  
C-322  
(1 of 2)

# IW20

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail
	35	13	a2	50	0	SP-SM	Ground Elevation (ft): <u>86.55</u>			
	50	14	a2	80	0	GP-GM	Drilled By: _____			
	40	15	a2	59	0		Black with trace white grains, gravelly, fine to medium SAND with silt, no odor, no sheen (medium dense to dense, wet)  @ 37 ft: black to brown, fine to coarse, SAND.			
45	16	a2	78	0	Brown to gray, fine to coarse, subrounded, GRAVEL with sand and silt, no odor, no sheen (medium dense, wet)					

Boring Completed 06/16/04  
Total Depth of Boring = 45.0 ft.

Injection Well Completed 06/16/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.55/S86.56

- 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. DOE Well ID# AKN907

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

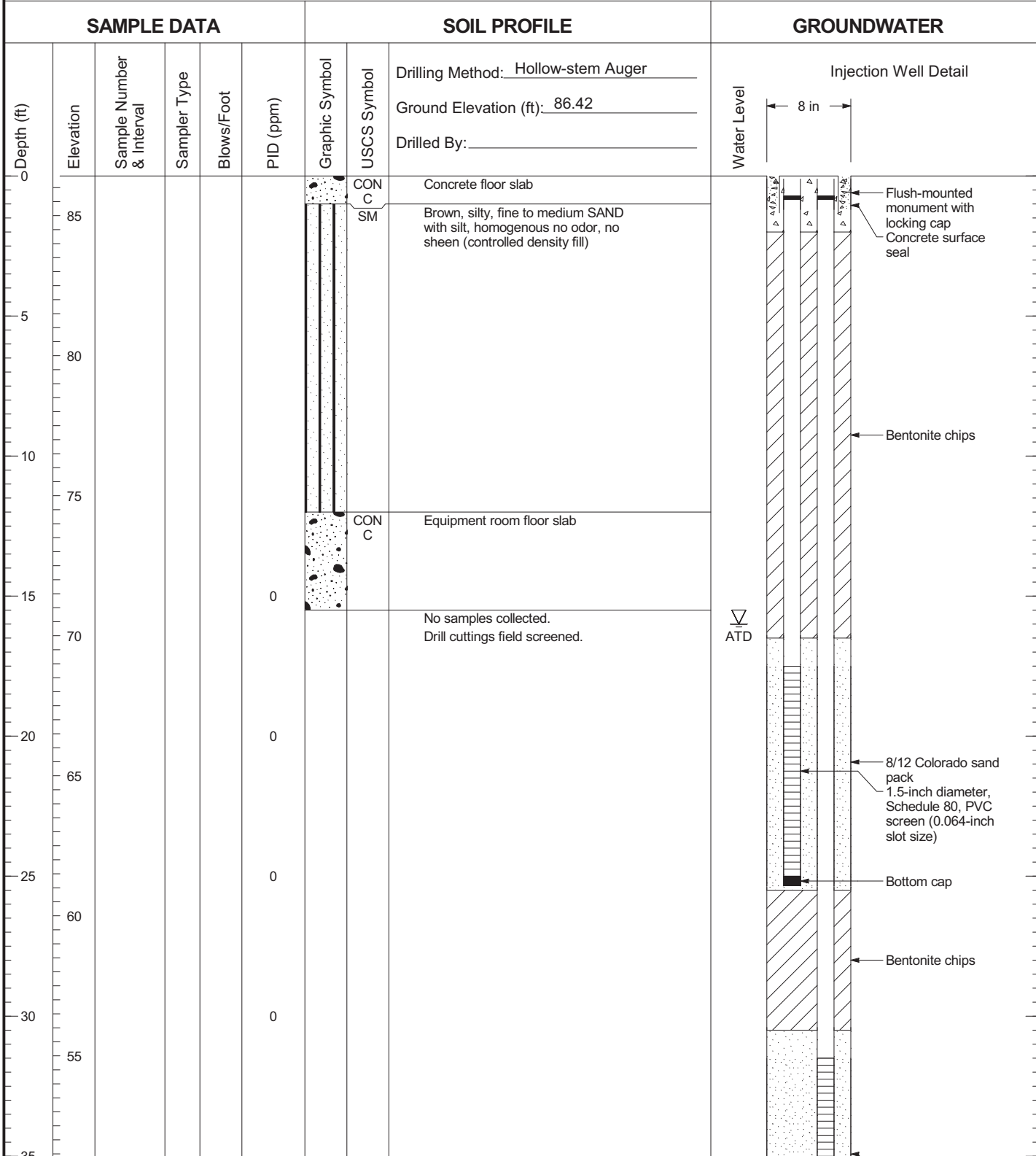


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Auburn, Washington

Log of Injection Well IW20

Figure  
C-322  
(2 of 2)

# IW21



- 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. DOE Well ID# AKN915

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW21

Figure  
C-323  
(1 of 2)

# IW21

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Injection Well Detail		
	35				0			Drilling Method: <u>Hollow-stem Auger</u>	Water Level	
50					0		Ground Elevation (ft): <u>86.42</u>	No samples collected. Drill cuttings field screened.		
40					0					

Boring Completed 06/16/04  
Total Depth of Boring = 40.0 ft.

Injection Well Completed 06/22/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.42/S86.41

- 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. DOE Well ID# AKN915

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

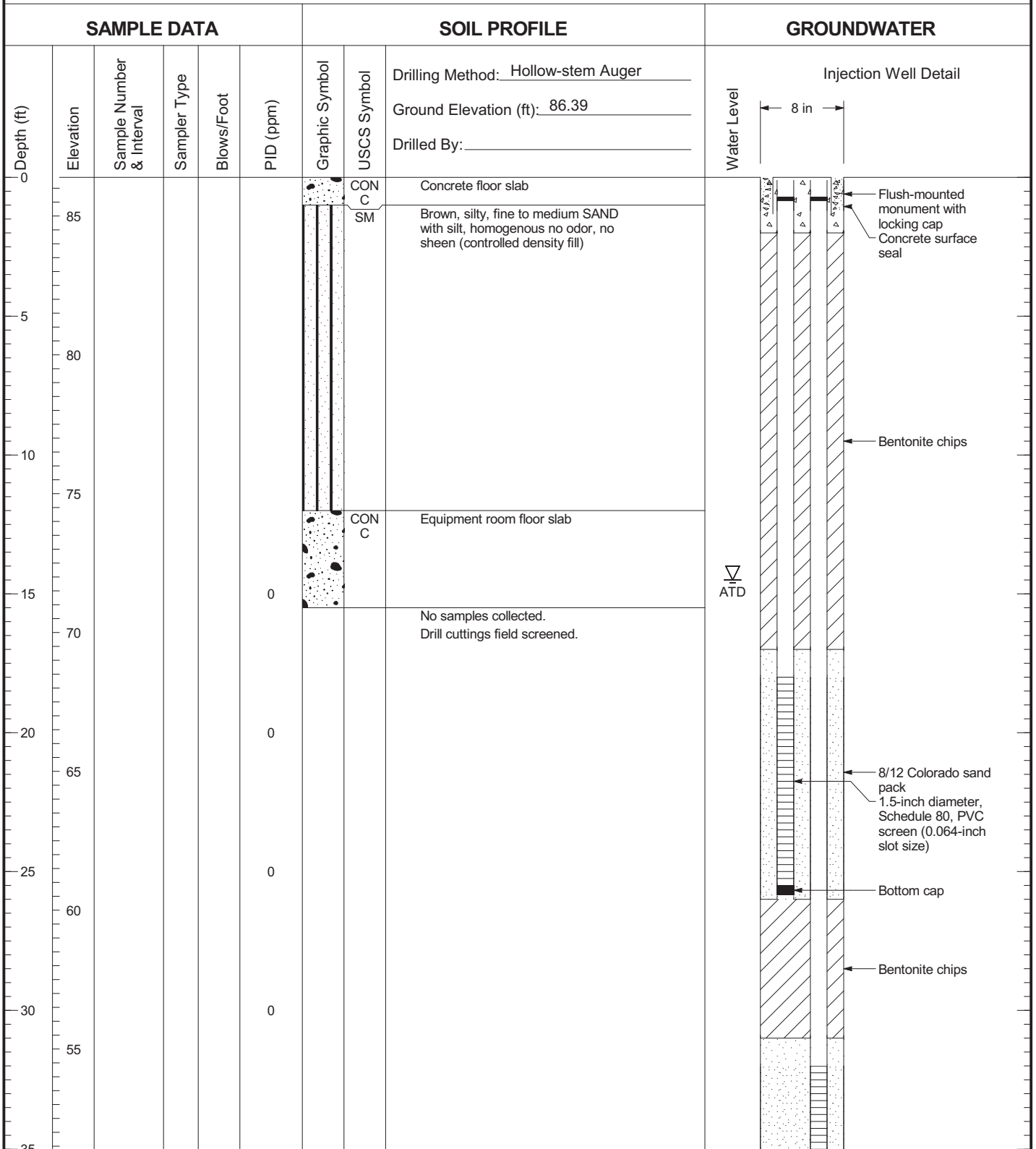


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Log of Injection Well IW21

Figure  
C-323  
(2 of 2)

# IW22



- 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. DOE Well ID# AKN921

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

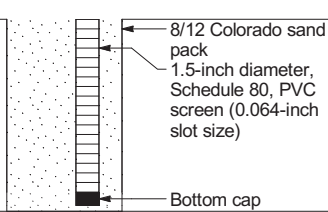


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Auburn, Washington

Log of Injection Well IW22

Figure  
C-324  
(1 of 2)

# IW22

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>		
					0			Ground Elevation (ft): <u>86.39</u>		
	35				0			Drilled By: _____		
50					0			No samples collected. Drill cuttings field screened.		
40					0			<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 10px;">Water Level</div>  </div>		

Boring Completed 06/25/04  
Total Depth of Boring = 40.0 ft.

Injection Well Completed 06/25/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.39/S86.30

- 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. DOE Well ID# AKN921

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

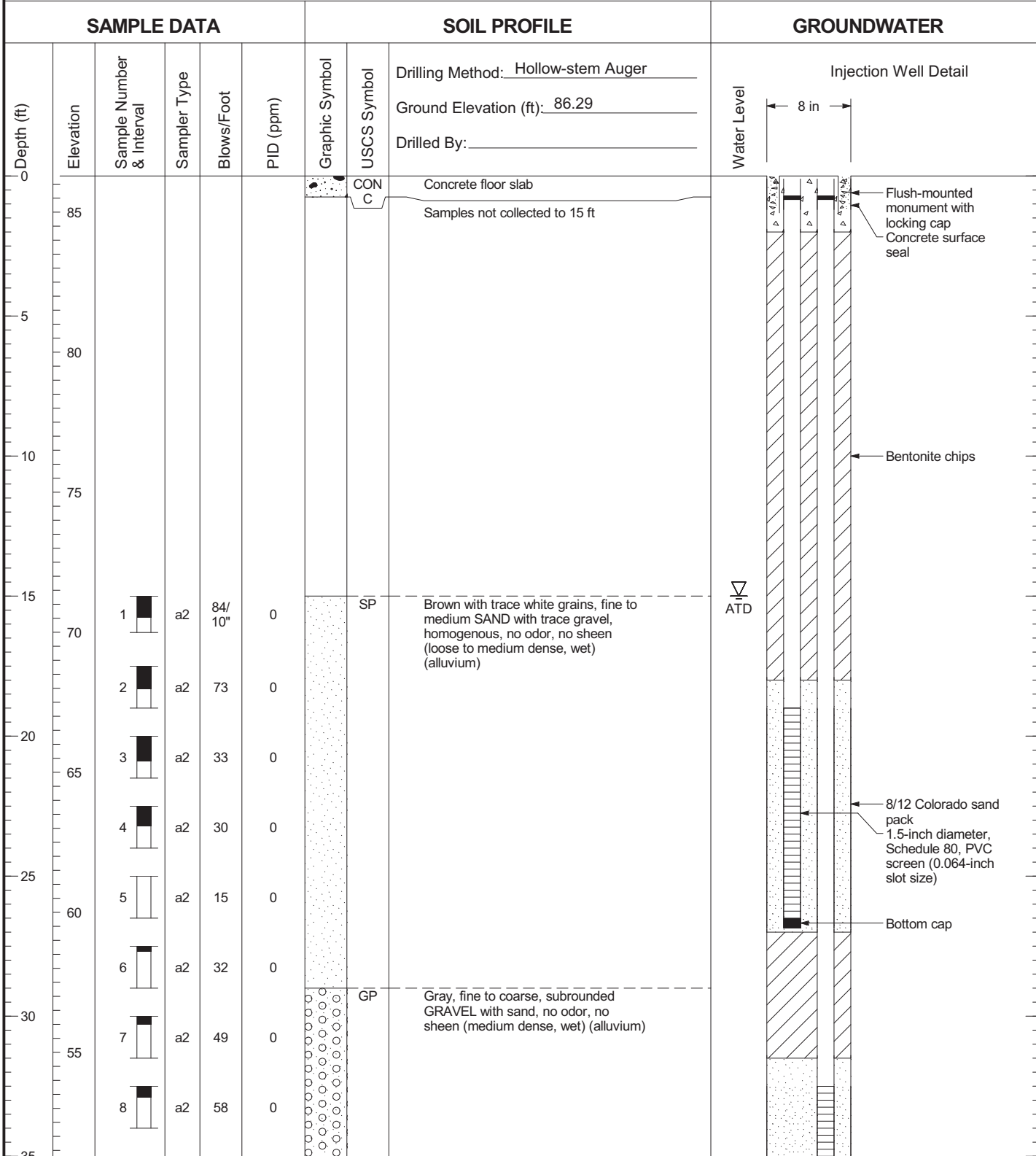


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Auburn, Washington

Log of Injection Well IW22

Figure  
C-324  
(2 of 2)

# IW23



- 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. DOE Well ID# AKN913

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW23

Figure  
C-325  
(1 of 2)

# IW23

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.29</u> Drilled By: _____	Water Level	Injection Well Detail 
	35	50					GP	Gray, fine to coarse, subrounded GRAVEL with sand, no odor, no sheen (medium dense, wet) (alluvium)		

Boring Completed 06/21/04  
Total Depth of Boring = 41.0 ft.

Injection Well Completed 06/21/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.29/S86.26



- 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. DOE Well ID# AKN913

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



# IW24

SAMPLE DATA						SOIL PROFILE		GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol		
								Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.42</u> Drilled By: _____	
No samples collected. Drill cuttings field screened.								Injection Well Detail Water Level 8 in	
0									Flush-mounted monument with locking cap Concrete surface seal
5					0				Bentonite chips
10					0				ATD
15					0				8/12 Colorado sand pack 1.5-inch diameter, Schedule 80, PVC screen (0.064-inch slot size)
20					0				Bottom cap
25					0				Bentonite chips
30					0				Bentonite chips
35									Bentonite chips

- 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. DOE Well ID# AKN914

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW24

Figure  
C-326  
(1 of 2)

# IW24

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail		
35					0			Ground Elevation (ft): <u>86.42</u>				
50							No samples collected. Drill cuttings field screened.					
40												
45												

Boring Completed 06/22/04  
Total Depth of Boring = 42.0 ft.

Injection Well Completed 06/22/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.42/S86.41

- 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. DOE Well ID# AKN914

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

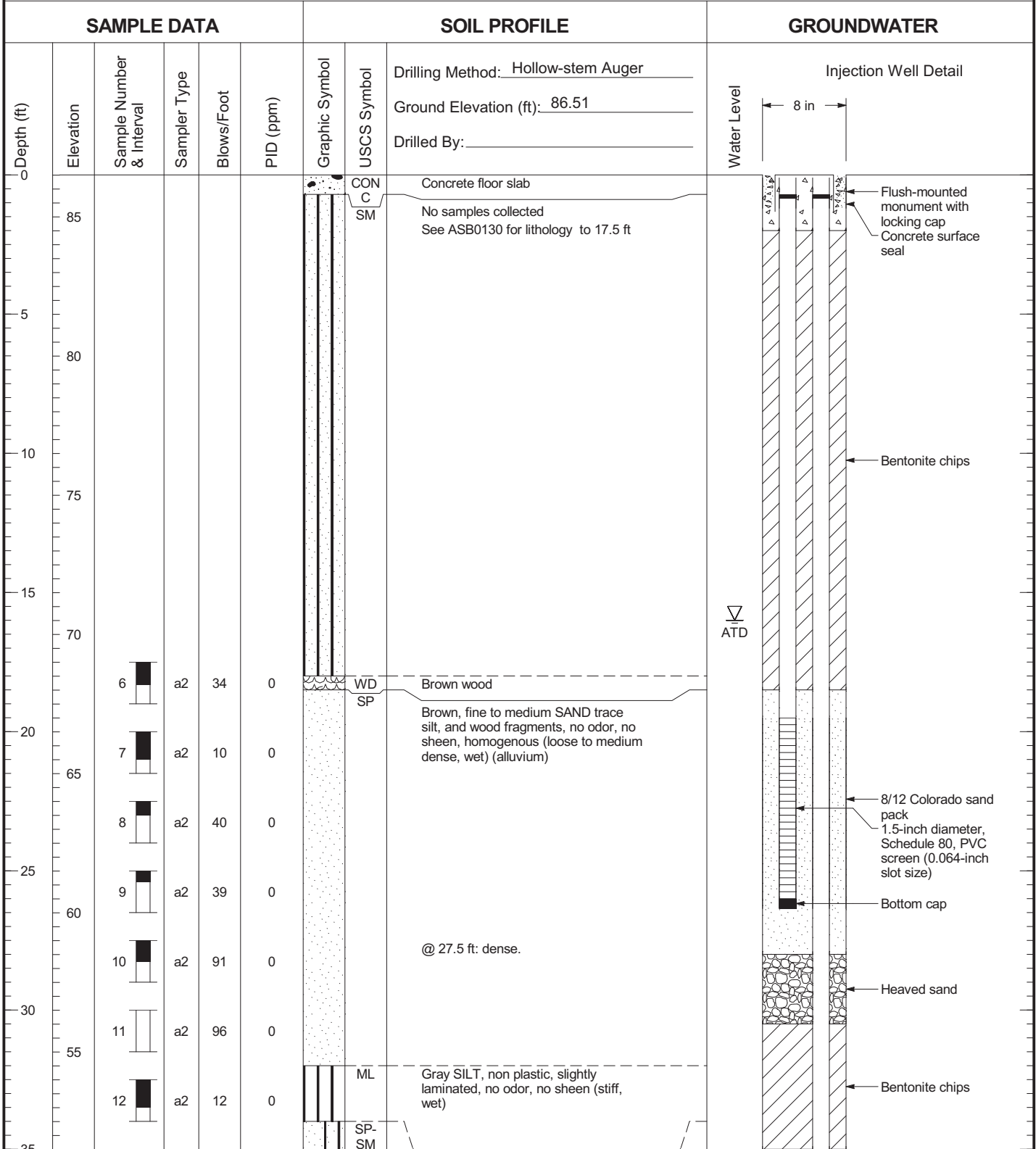


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Log of Injection Well IW24

Figure  
C-326  
(2 of 2)

# IW25



- 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. DOE Well ID# AKN909

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW25

Figure  
C-327  
(1 of 2)

# IW25

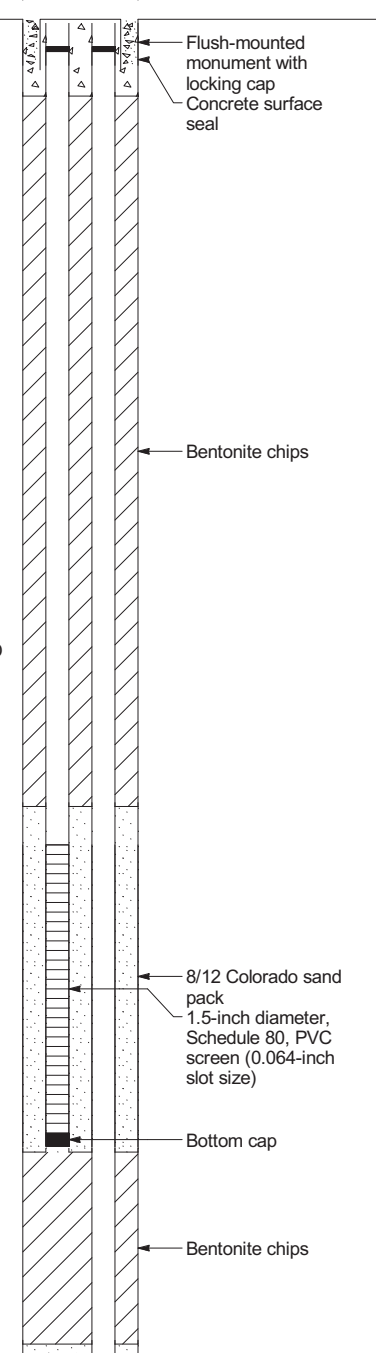
SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail
	35	13	a2	77	0	SP-SM	@ 33.5 ft: bright orange	Ground Elevation (ft): <u>86.51</u>		
	50	14	a2	100/6"	0	GP/SP	Brown gravelly, fine to coarse SAND with silt, homogenous, no odor, no sheen (medium dense to dense, wet)	Drilled By: _____		
	40	15	a2	167	0	GP	Gray, gravelly, fine to medium SAND/sandy fine GRAVEL trace silt, no odor, no sheen, homogenous (dense, wet)			
	45	16	a2	83	0	GP	Gray, fine to coarse, subrounded GRAVEL, no odor, no sheen, homogenous (very dense, wet)			
45	Boring Completed 06/11/04 Total Depth of Boring = 44.0 ft.						Injection Well Completed 06/14/04 Elevation at Top of Protective Casing = Not measured Elevation at Top of Injection Well Casing = 186.51/S86.52			

- 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. DOE Well ID# AKN909

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



# IW26

SAMPLE DATA					SOIL PROFILE			GROUNDWATER		
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.41</u> Drilled By: _____	Injection Well Detail Water Level <span style="margin-left: 20px;">← 8 in →</span>	
0								No samples collected. Drill cuttings field screened.	 <p>The diagram shows a cross-section of the injection well. At the top, there is a flush-mounted monument with a locking cap and a concrete surface seal. Below this is a section of bentonite chips. A water level symbol (inverted triangle) is shown at approximately 70 feet depth, labeled 'ATD'. Further down, there is an 8/12 Colorado sand pack, a 1.5-inch diameter Schedule 80 PVC screen with a 0.064-inch slot size, and a bottom cap. The well is surrounded by bentonite chips at the base.</p>	
85										
5					0					
80										
10					0					
75										
15					0					
70										
20					0					
65										
25					0					
60										
30					0					
55										
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. DOE Well ID# AKN928

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW26

Figure  
C-328  
(1 of 2)

# IW26

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.41</u> Drilled By: _____	Water Level	Injection Well Detail	
	35				0			No samples collected. Drill cuttings field screened.			
50					0						
40											
45											

Boring Completed 06/29/04  
Total Depth of Boring = 43.0 ft.

Injection Well Completed 06/29/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.41/S86.50

- 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. DOE Well ID# AKN928

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

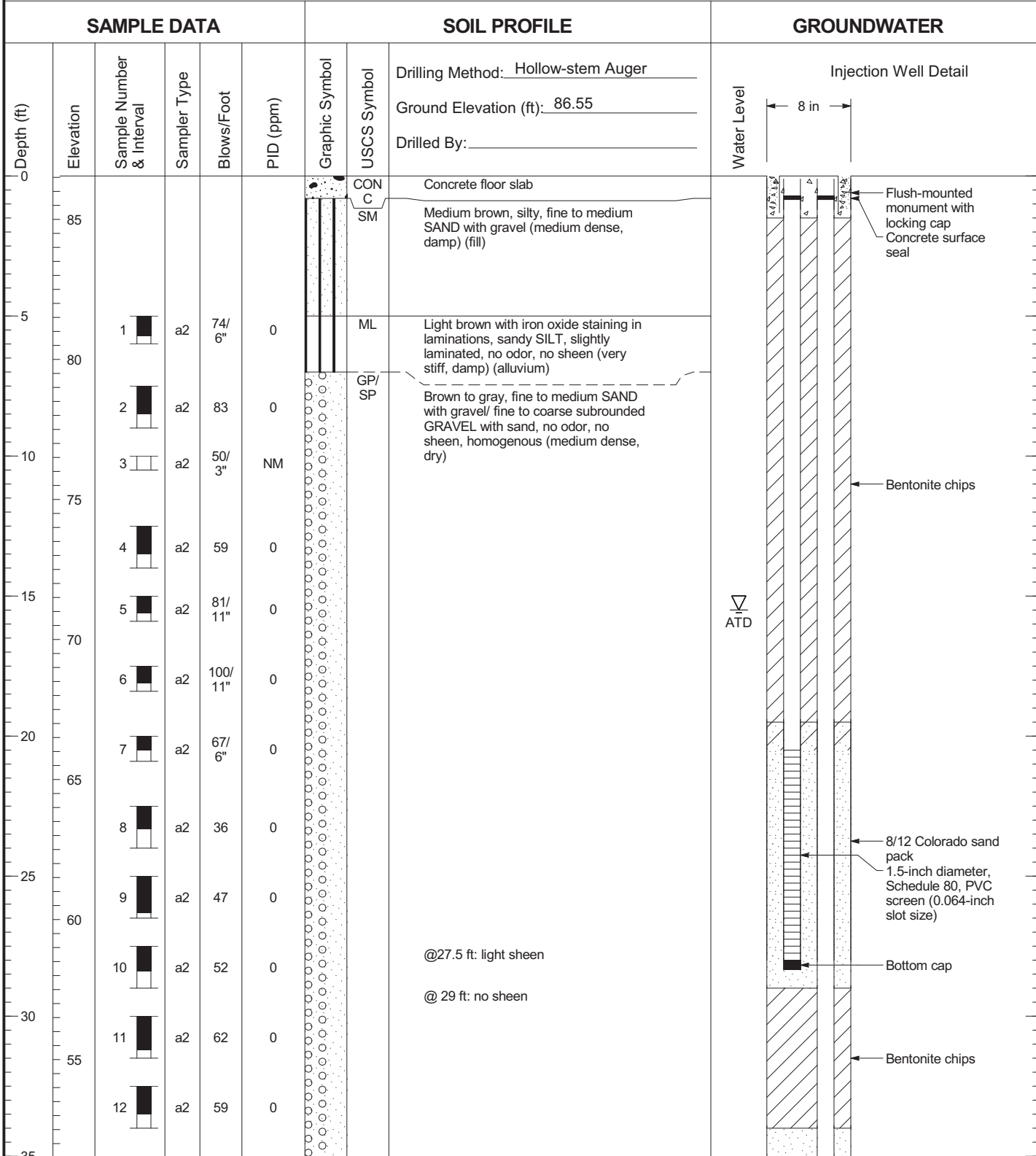


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Auburn, Washington

Log of Injection Well IW26

Figure  
C-328  
(2 of 2)

# IW27



- 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. DOE Well ID# AKN901

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Auburn, Washington

Log of Injection Well IW27

Figure  
C-329  
(1 of 2)

# IW27

SAMPLE DATA					SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level
								Ground Elevation (ft): <u>86.55</u>	
								Drilled By: _____	
	35		13	a2	50/ 4"	0	GP/ SP	Brown to gray, fine to medium SAND with gravel/ fine to coarse subrounded GRAVEL with sand, no odor, no sheen, homogenous (medium dense, dry)  @37.5 ft: dense	Injection Well Detail
	50		14	a2	85/ 6"	0			
40		15	a2	65	0	SP- SM	Black with trace white grains, gravelly, fine to medium SAND with silt, no odor, no sheen (medium dense, wet)		
45		16	a2	50/ 3"	0		Refusal at 43 ft		
45								8/12 Colorado sand pack 1.5-inch diameter, Schedule 80, PVC screen (0.064-inch slot size)  Bottom cap	

Boring Completed 06/07/04  
Total Depth of Boring = 43.0 ft.

Injection Well Completed 06/07/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.55/S86.54

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN901



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Auburn, Washington

Log of Injection Well IW27

Figure  
C-329  
(2 of 2)



# IW28

SAMPLE DATA						SOIL PROFILE		GROUNDWATER			
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.41</u>	Drilled By: _____	Injection Well Detail
0											Water Level
5					0						8 in
10					0						Flush-mounted monument with locking cap Concrete surface seal
15					0						Bentonite chips
20					0						ATD
25					0						8/12 Colorado sand pack 1.5-inch diameter, Schedule 80, PVC screen (0.064-inch slot size)
30					0						Bottom cap
35					0						Bentonite chips

No samples collected.  
Drill cuttings field screened.

- 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. DOE Well ID# AKN929

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Log of Injection Well IW28

Figure  
C-330  
(1 of 2)

# IW28

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.41</u>	Drilled By: _____	Water Level	Injection Well Detail
35					0							
50								No samples collected. Drill cuttings field screened.				
40					0							
45												

Boring Completed 06/29/04  
Total Depth of Boring = 43.0 ft.

Injection Well Completed 06/29/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.41/S86.42

- 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. DOE Well ID# AKN929

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

### Log of Injection Well IW28

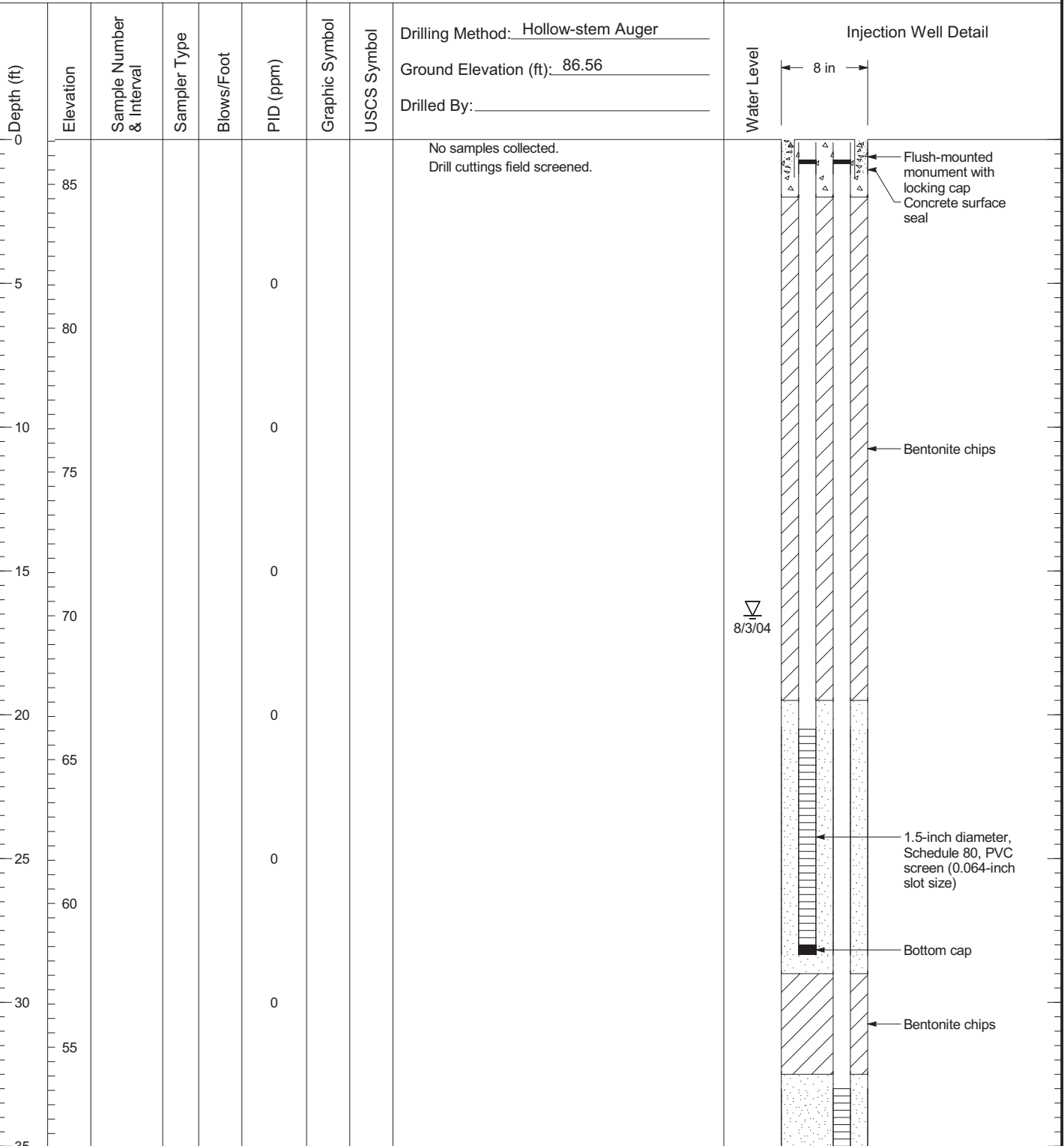
Figure  
C-330  
(2 of 2)

# IW29

## 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. DOE Well ID# AKN930

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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## Log of Injection Well IW29

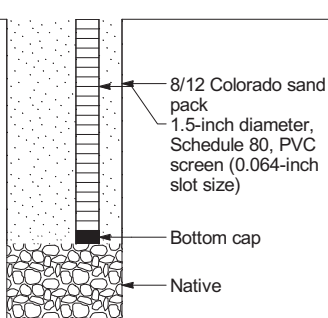
Figure  
C-331  
(1 of 2)

# IW29

## SAMPLE DATA

## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.56</u>	Drilled By: _____	Water Level	Injection Well Detail		
35					0			No samples collected. Drill cuttings field screened.						
50														
40					0									
45														

Boring Completed 06/30/04  
Total Depth of Boring = 43.0 ft.

Injection Well Completed 06/30/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.56/S86.55

- 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. DOE Well ID# AKN930

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



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Investigation  
Auburn, Washington

Log of Injection Well IW29

Figure  
C-331  
(2 of 2)

# IW30

SAMPLE DATA						SOIL PROFILE			GROUNDWATER	
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u> Ground Elevation (ft): <u>86.5</u> Drilled By: _____	Injection Well Detail	
0									Water Level	8 in
5					0			No samples collected. Drill cuttings field screened.		
10					0					
15					0					
20					0					
25					0					
30					0					
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. DOE Well ID# AKN931

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW30

Figure  
C-332  
(1 of 2)

# IW30

## SAMPLE DATA

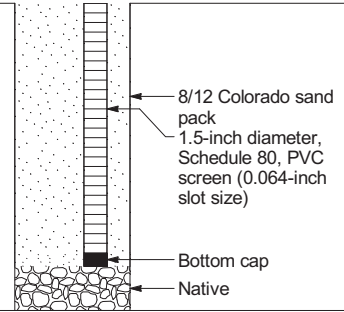
## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail		
35					0			Ground Elevation (ft): <u>86.5</u>				
50								Drilled By: _____				
40					0			No samples collected. Drill cuttings field screened.				
45												

Boring Completed 06/30/04  
Total Depth of Boring = 43.0 ft.

Injection Well Completed 06/30/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.50/S86.49



025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN931

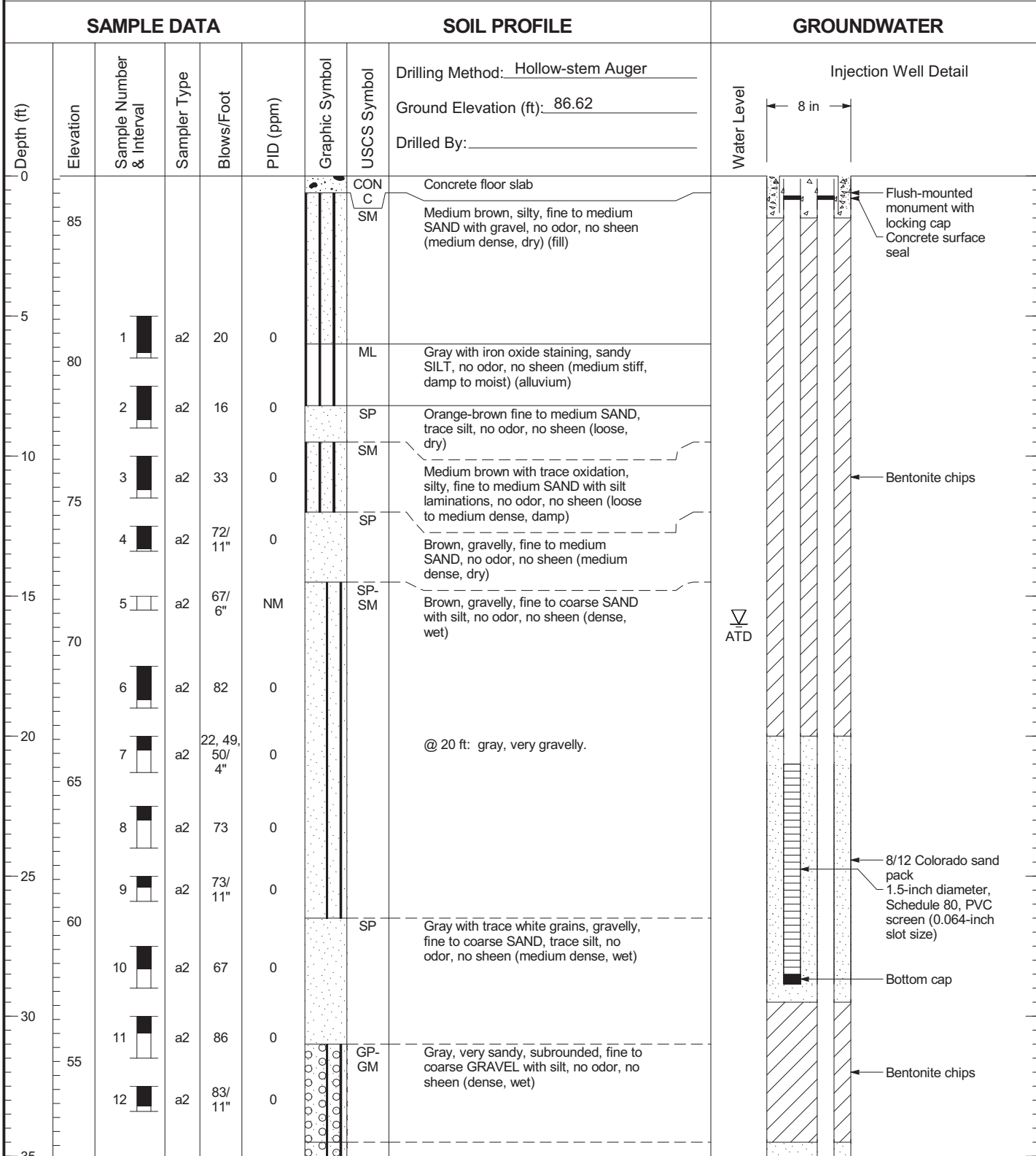


Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW30

Figure  
C-332  
(2 of 2)

# IW31



- 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. DOE Well ID# AKN902

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

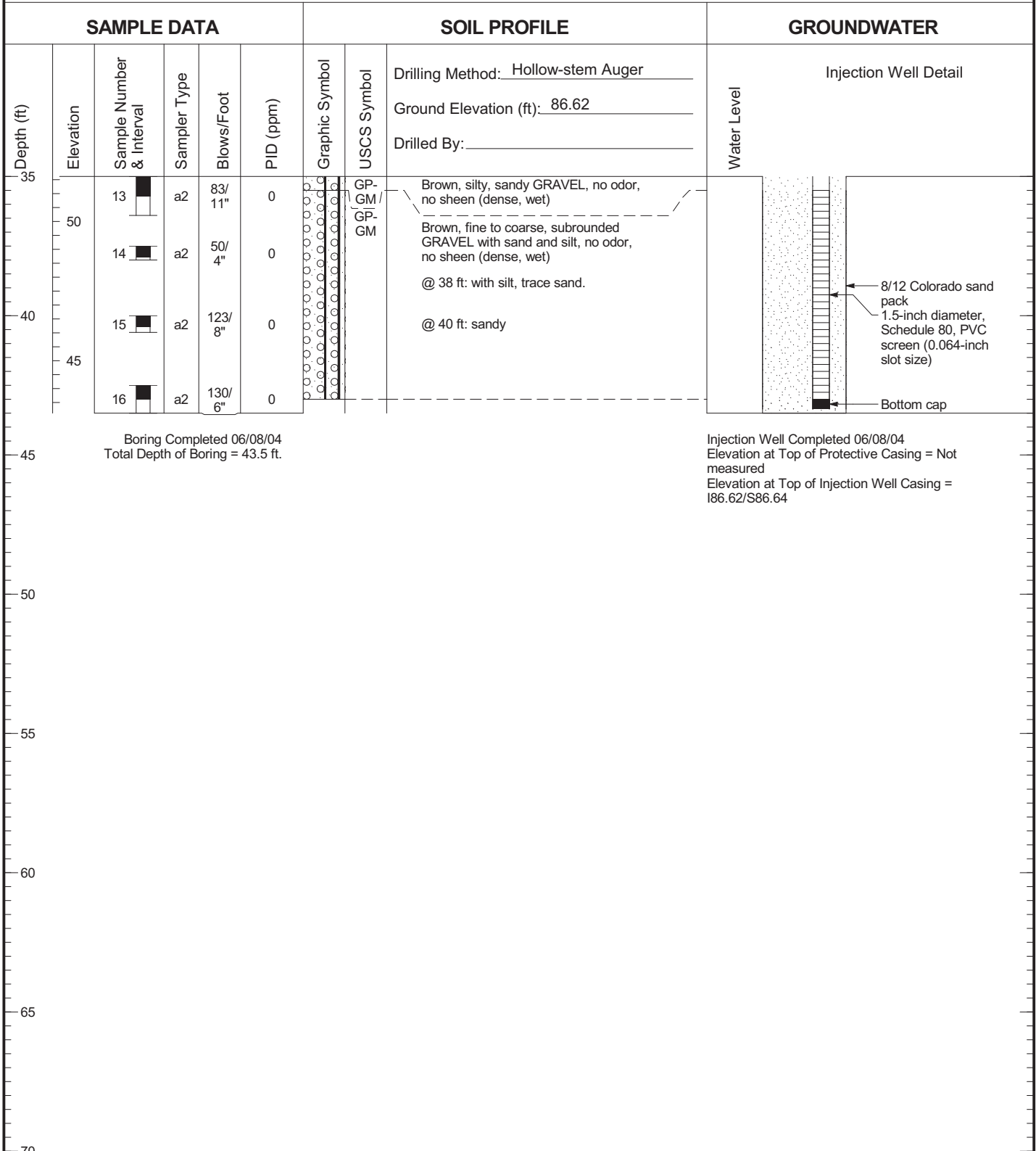


Boeing Auburn Remedial  
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Auburn, Washington

Log of Injection Well IW31

Figure  
C-333  
(1 of 2)

# IW31



- 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. DOE Well ID# AKN902

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW31

Figure  
C-333  
(2 of 2)



# IW32

SAMPLE DATA						SOIL PROFILE		GROUNDWATER					
Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Ground Elevation (ft): <u>86.45</u>	Drilled By: _____	Water Level	Injection Well Detail	
0											8 in		
5					0			No samples collected. Drill cuttings field screened.				85	
10					0		75						
15					0		70						
20					0		65						
25					0		60						
30					0		55						
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. DOE Well ID# AKN932

025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION



Boeing Auburn Remedial  
Investigation  
Auburn, Washington

Log of Injection Well IW32

Figure  
C-334  
(1 of 2)

# IW32

## SAMPLE DATA

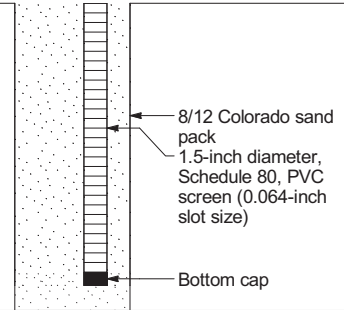
## SOIL PROFILE

## GROUNDWATER

Depth (ft)	Elevation	Sample Number & Interval	Sampler Type	Blows/Foot	PID (ppm)	Graphic Symbol	USCS Symbol	Drilling Method: <u>Hollow-stem Auger</u>	Water Level	Injection Well Detail		
35					0			Ground Elevation (ft): <u>86.45</u>				
40					0			Drilled By: _____				
45								No samples collected. Drill cuttings field screened.				

Boring Completed 07/01/04  
Total Depth of Boring = 43.0 ft.

Injection Well Completed 07/01/04  
Elevation at Top of Protective Casing = Not measured  
Elevation at Top of Injection Well Casing = 186.45/S86.47



025164. 5/9/16 R:\PROJECTS\025164 - MASTER FILE.GPJ WELL LOG W/ ELEVATION

- 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. DOE Well ID# AKN932



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Log of Injection Well IW32

Figure  
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