

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following:

Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance.

Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs.

SAND or GRAVEL	Standard Penetration Resistance (N) in Blows/Foot	SILT or CLAY	Standard Penetration Resistance (N) in Blows/Foot	Approximate Shear Strength in TSF
Density		Consistency		
Very loose	0 – 4	Very soft	0 – 2	<0.125
Loose	4 – 10	Soft	2 – 4	0.125 – 0.25
Medium dense	10 – 30	Medium stiff	4 – 8	0.25 – 0.5
Dense	30 – 50	Stiff	8 – 15	0.5 – 1.0
Very dense	>50	Very stiff	15 – 30	1.0 – 2.0
		Hard	>30	>2.0

Moisture

Dry	Little perceptible moisture
Damp	Some perceptible moisture, probably below optimum
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture, probably above optimum

Minor Constituents





Estimated Percentage

Not identified in description	0 – 5
Slightly (clayey, silty, etc.)	5 – 12
Clayey, silty, sandy, gravelly	12 – 30
Very (clayey, silty, etc.)	30 – 50




Legends

Sampling Test Symbols

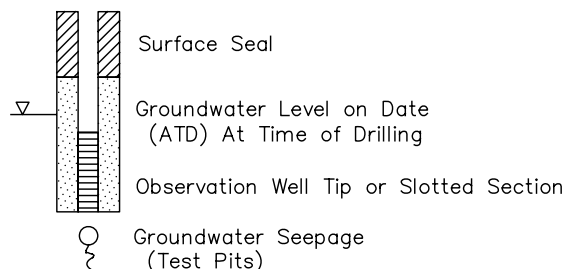
BORING SAMPLES

-  Split Spoon
-  Shelby Tube
-  Cuttings
-  Core Run
- * No Sample Recovery
- P Tube Pushed, Not Driven

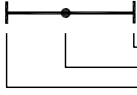
TEST PIT SAMPLES

-  Grab (Jar)
-  Bag
-  Shelby Tube

Groundwater Observations



Test Symbols

- NS No Sheen
 - SS Slight Sheen
 - MS Moderate Sheen
 - HS Heavy Sheen
 - TCD Triaxial Consolidated Drained
 - QU Unconfined Compression
 - DS Direct Shear
 - K Permeability
 - PP Pocket Penetrometer
Approximate Compressive Strength in TSF
 - TV Torvane
Approximate Shear Strength in TSF
 - CBR California Bearing Ratio
 - MD Moisture Density Relationship
 - AL Atterberg Limits
- 
 Water Content in Percent
 Liquid Limit
 Natural
 Plastic Limit
- PID Photoionization Detector Reading
 - CA Chemical Analysis
 - DT *In Situ* Density Test

Sediment Core Log: AN-RI-SEDC-01

Date: 7/15/05

Drive Length in Feet: 4.8'

Recovery in Feet: 3.9

Percent Recovery: 82%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good

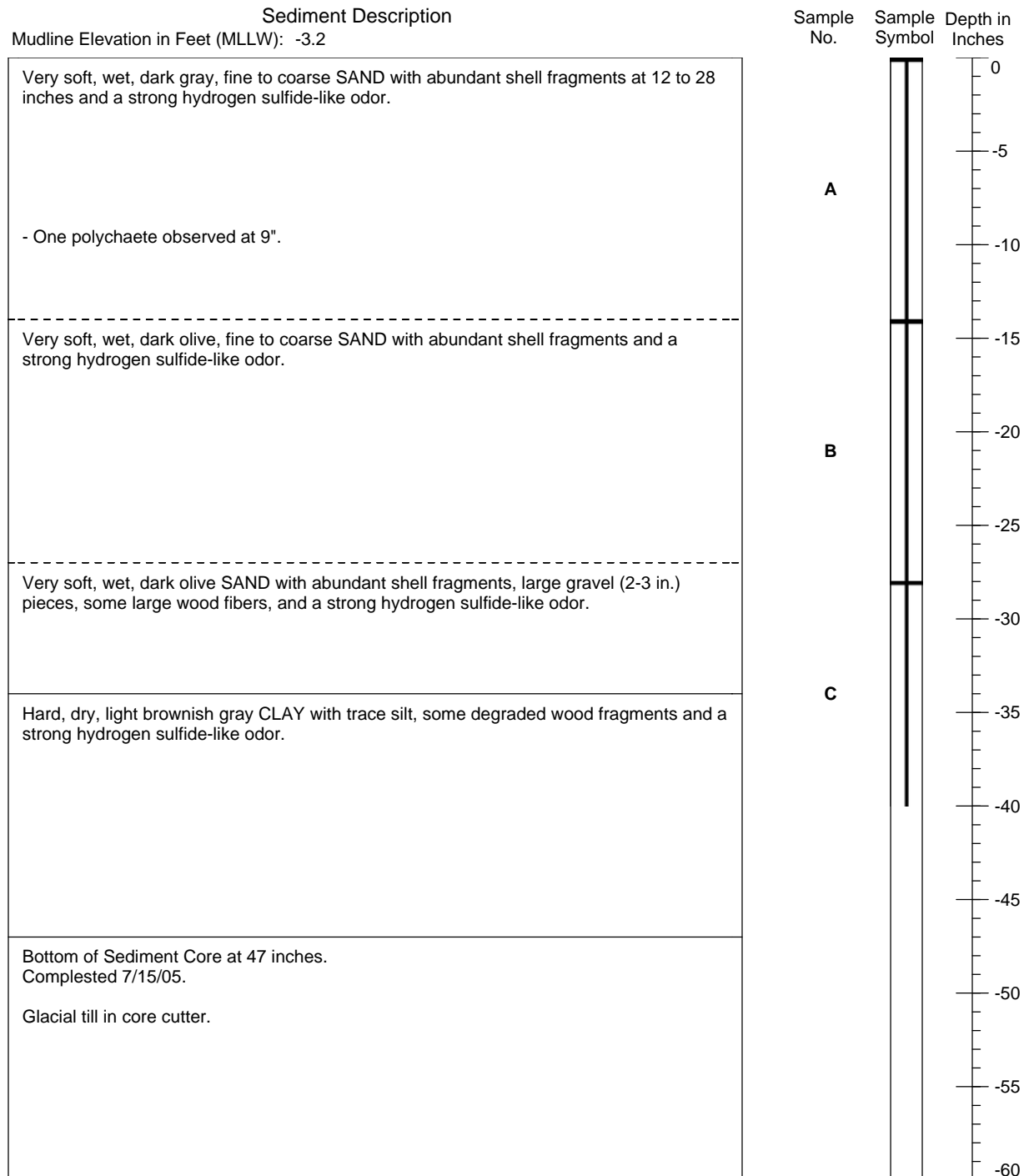


Figure B-2

Sediment Sample AN-RI-SEDC-02
Former Scott Paper Mill
Anacortes, Washington

Sediment Core Log: AN-RI-SEDC-02

Date: 7/14/05

Drive Length in Feet: 5.2

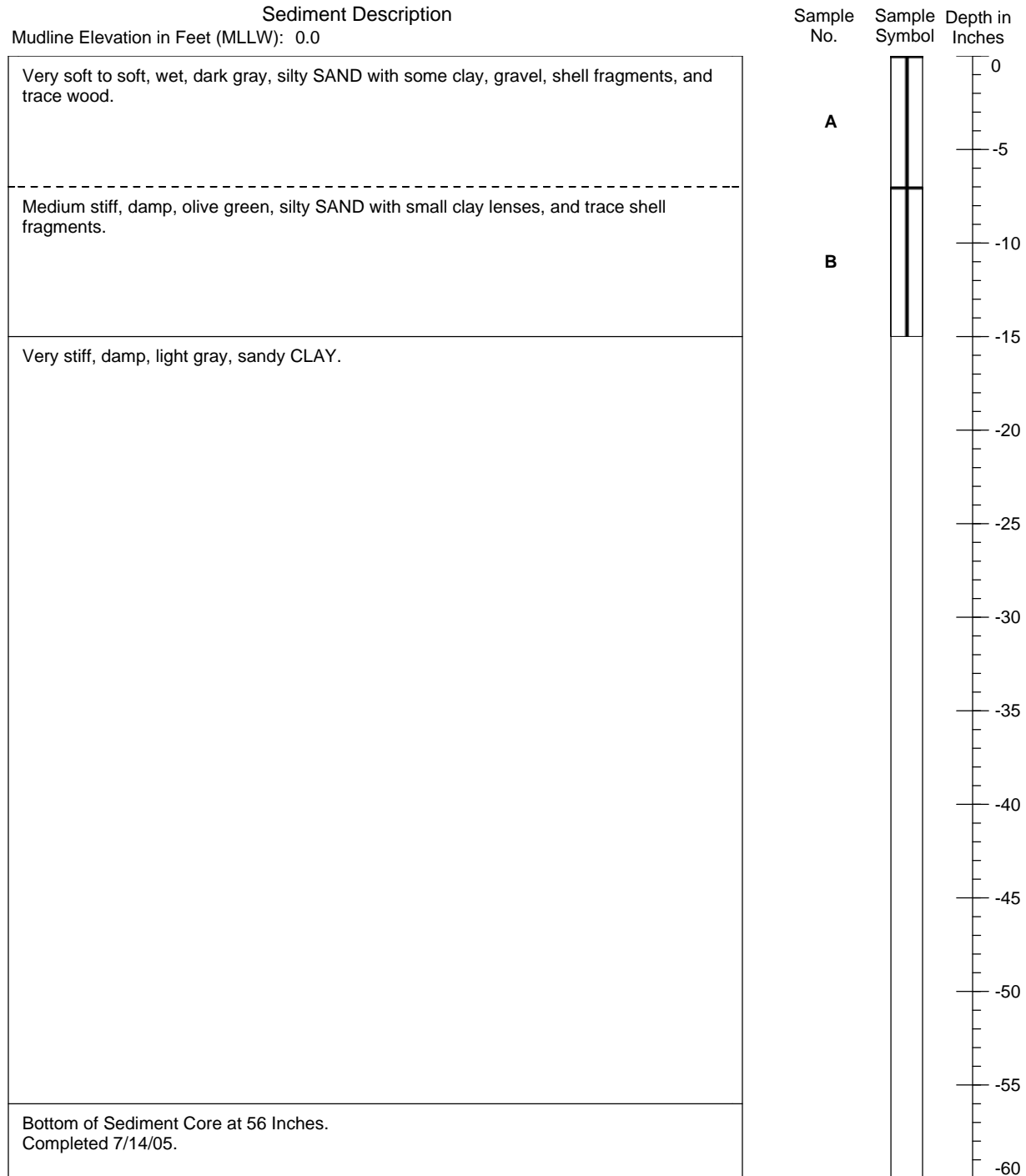
Recovery in Feet: 4.7

Percent Recovery: 90%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good



Sediment Core Log: AN-RI-SEDCRD-02

Date: 7/14/05

Drive Length in Feet: 3.5

Recovery in Feet: 3.3

Percent Recovery: 94%

Type of Sample: Vibracore

Diameter of Sample: 3.95"

Sample Quality: Good

Sediment Description

Mudline Elevation in Feet (MLLW): 0.0

Very soft to soft, very wet, dark gray, silty SAND with gravel and some shell fragments.
Soft, damp, dark gray, silty SAND with some coarse gravel and slight hydrogen sulfide-like odor.
Medium stiff, damp, dark gray, silty SAND with some gravel.
-Silt pocket. -Clay pocket.
SILT.
-Shell fragments.
Very stiff, damp, dark gray SILT with clay lenses.
Hard, damp, dark gray SILT.
Bottom of Sediment Core at 101 Centimeters. Completed 7/13/05.

Sample No.	Sample Symbol	Sample No.	Sample Symbol	Depth in cm
Be		Pb/Cs		
A				0
B		A		-5
C				-10
D		B		-15
				-20
		C		-25
				-30
		D		-35
				-40
		E		-45
				-50
		F		-55
				-60
				-65
				-70
				-75
				-80
				-85
				-90
				-95
				-100
				-105
				-110

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Figure B-4

Sediment Sample AN-RI-SEDCRD-02
Former Scott Paper Mill
Anacortes, Washington

Sediment Core Log: AN-RI-SEDC-03

Date: 7/15/05

Drive Length in Feet: 3.7

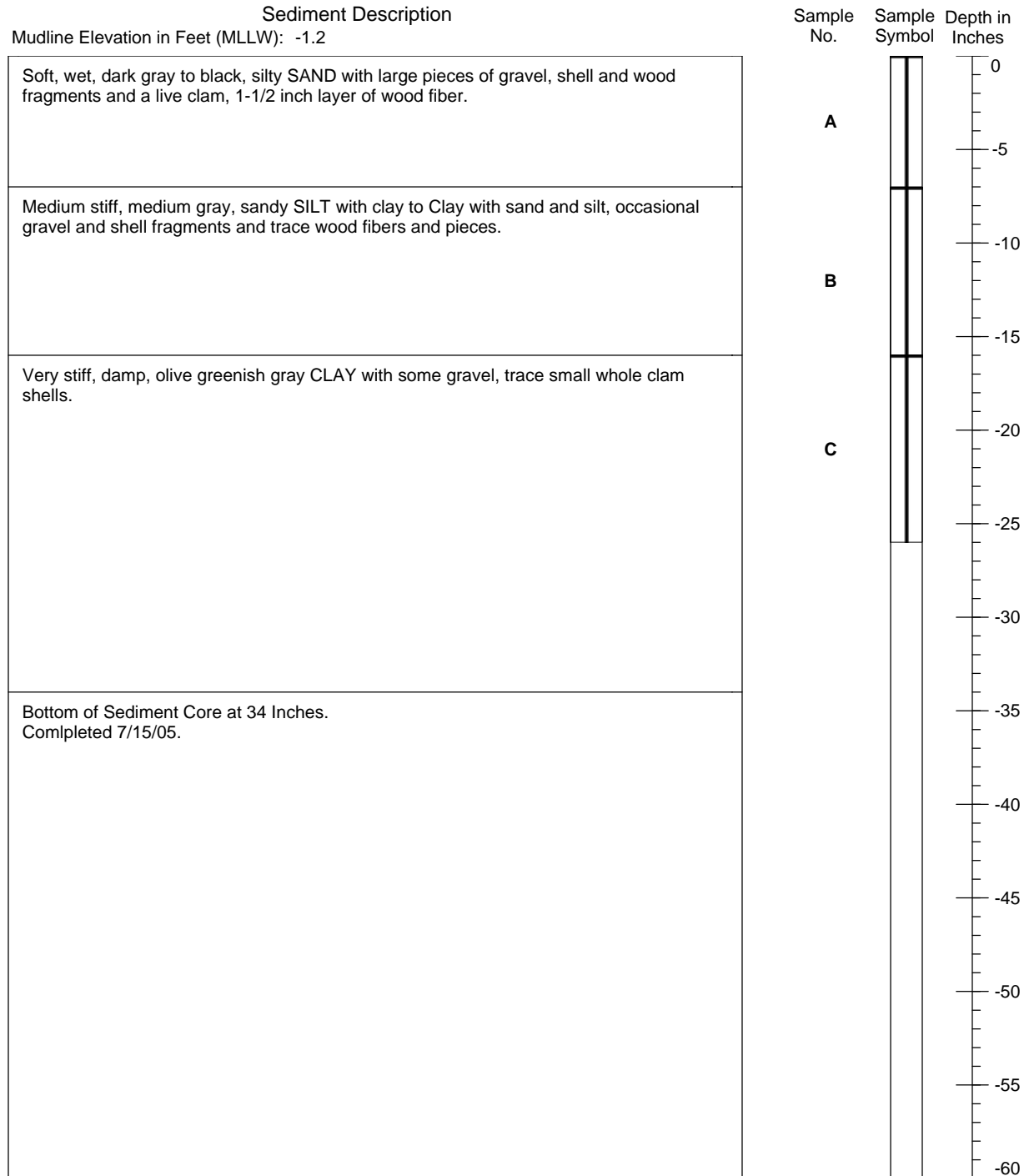
Recovery in Feet: 3.3

Percent Recovery: 89%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good



Sediment Core Log: AN-RI-SEDC-04

Date: 7/15/05

Drive Length in Feet: 7.4

Recovery in Feet: 7.1

Percent Recovery: 96%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good

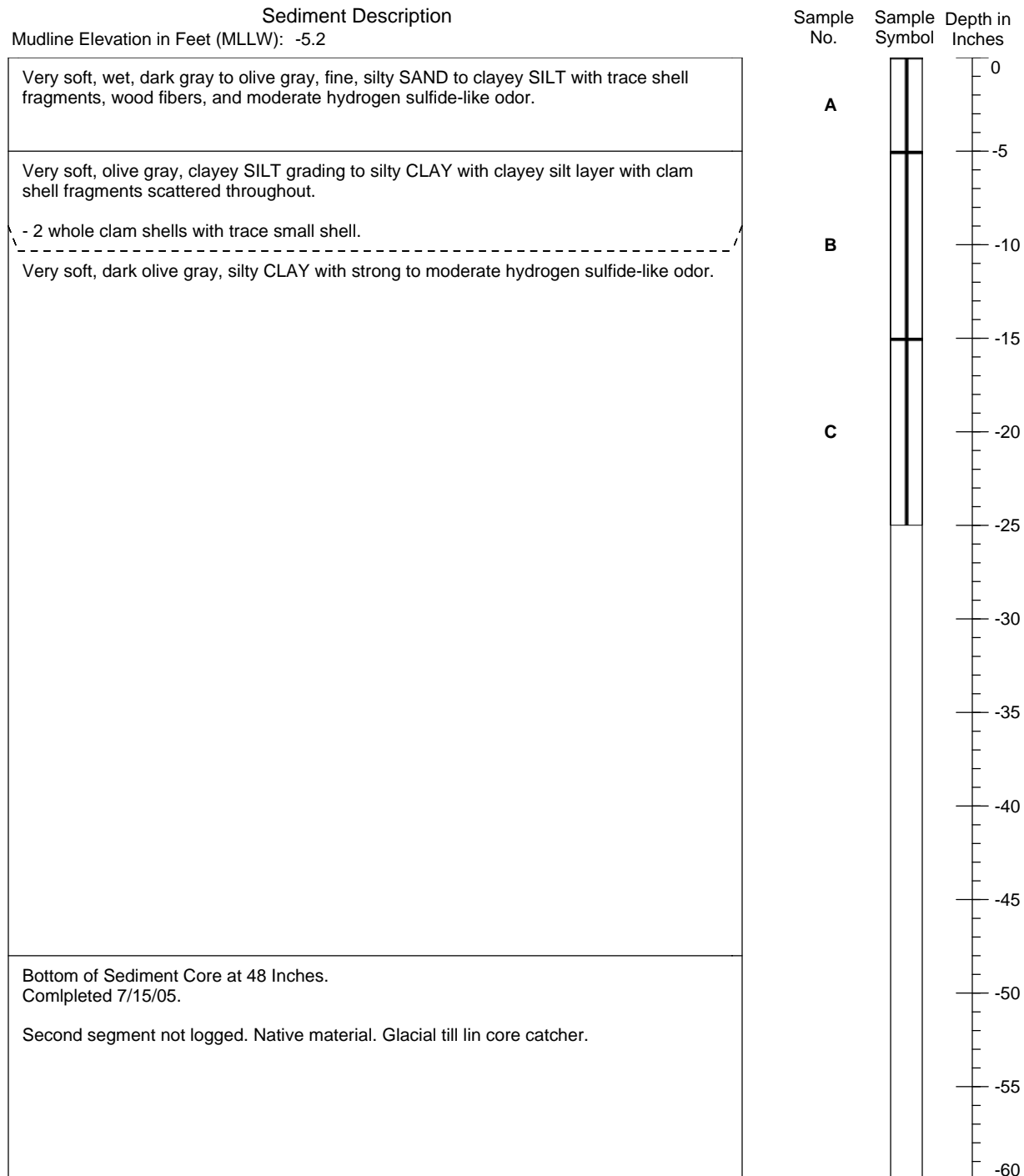


Figure B-6
Sediment Sample AN-RI-SEDC-04
Former Scott Paper Mill
Anacortes, Washington

Sediment Core Log: AN-R1-SEDC-06

Date: 7/14/05

Drive Length in Feet: 11.2

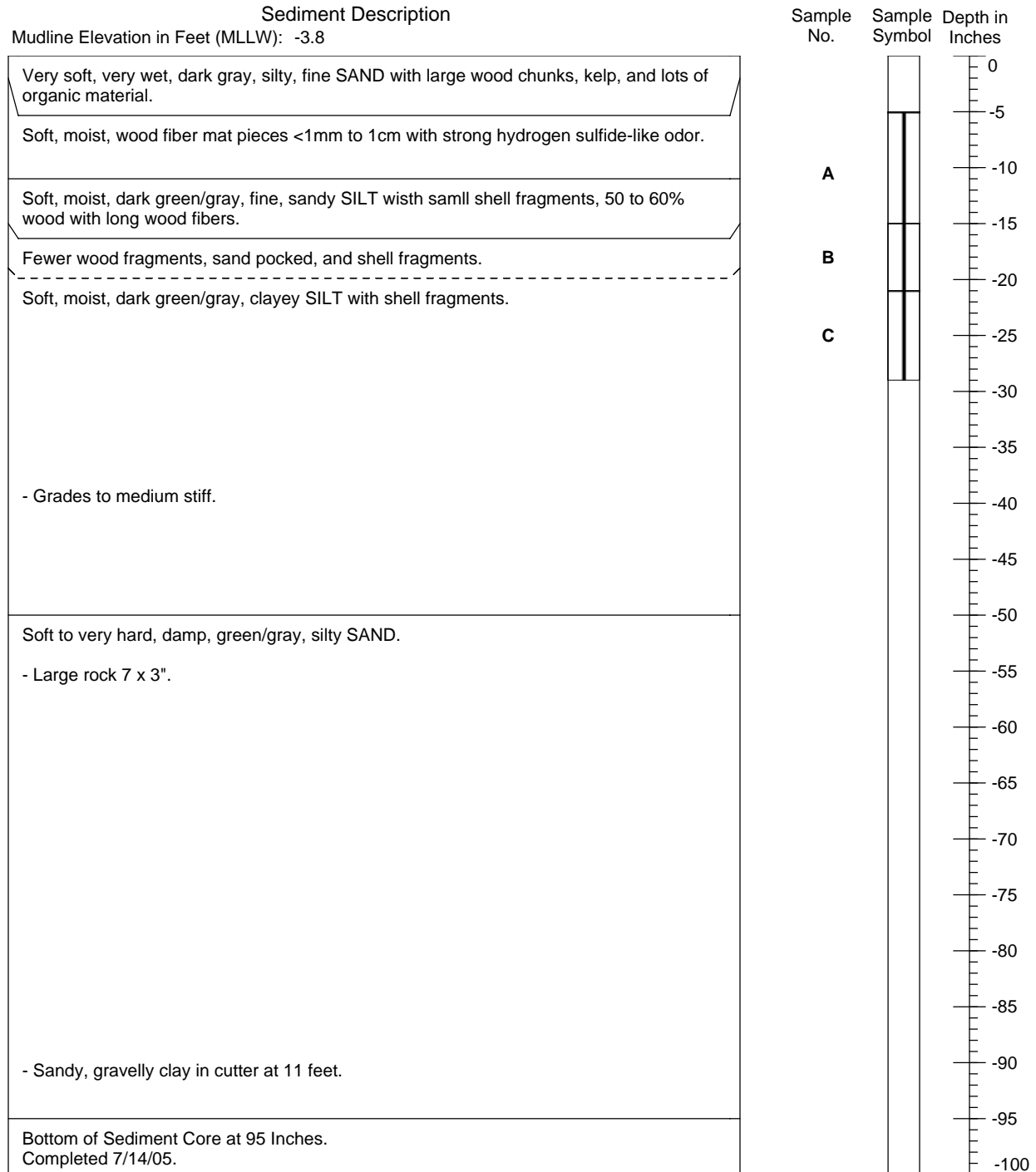
Recovery in Feet: 11

Percent Recovery: 98%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good



Sediment Core Log: AN-RI-SEDCRD-06

Date: 7/14/05

Drive Length in Feet: 7.2

Recovery in Feet: 6.3

Percent Recovery: 88%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good

Sediment Description

Mudline Elevation in Feet (MLLW): -3.9

Very soft, very wet, dark olive gray SILT with trace sand and abundant organic matter, abundant wood fragments, and moderate hydrogen sulfide-like odor.
Soft, wet, dark olive gray SILT with abundant wood.
Wood fiber mat, 50 to 80% wood, large chunks of wood. -Shell fragments beginning at 12 cm.
Soft wet to moist, olive gray SILT with trace sand, wood fiber decreasing to approximately 40% wood.
Very soft, moist, olive gray, clayey SILT with trace sand, clay pockets, and some wood.
Soft to stiff, moist grading to drier, clayey SILT with clay lenses and shell fragments.
Bottom of Sediment Core at 120 Centimeters. Completed 7/14/05.

Sample No.	Sample Symbol	Sample No.	Sample Symbol	Depth in cm
Be		Pb/Cs		
A				0
B		A		-5
C				-10
D		B		-15
				-20
		C		-25
				-30
		D		-35
				-40
		E		-45
				-50
		F		-55
				-60
				-65
				-70
				-75
				-80
				-85
				-90
				-95
				-100
				-105
				-110
				-115
				-120
				-125
				-130

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Figure B-8
Sediment Sample AN-R1-SEDCRD-06
Former Scott Paper Mill
Anacortes, Washington

Sediment Core Log: AN-RI-SEDC-07

Date: 7/14/05

Drive Length in Feet: 5.9

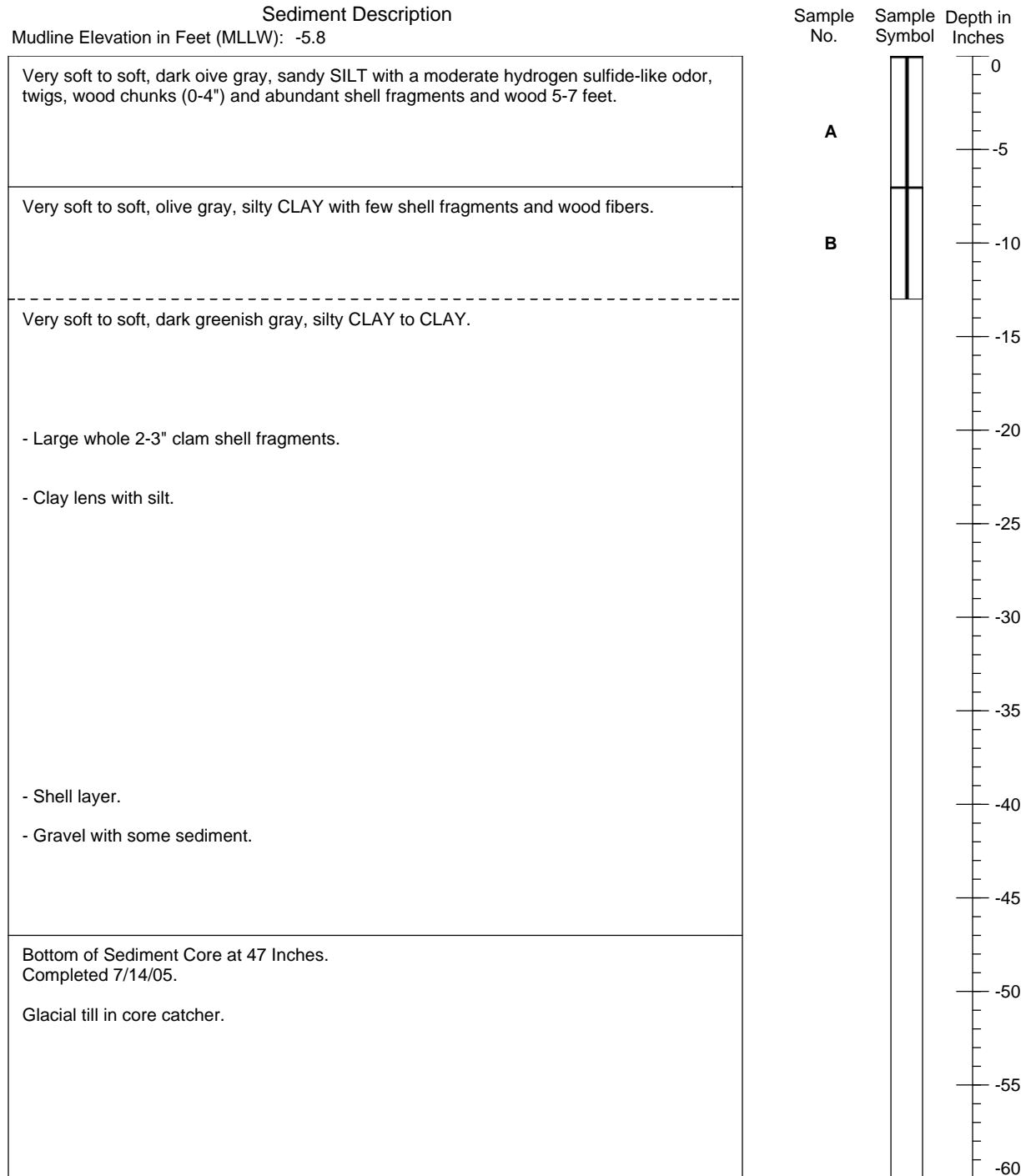
Recovery in Feet: 5.8

Percent Recovery: 98%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good



Sediment Core Log: AN-RI-SEDCRD-07

Date: 7/14/05

Drive Length in Feet: 7.0

Recovery in Feet: 3.4

Percent Recovery: 85%

Type of Sample: Vibracore

Diameter of Sample: 3.75"

Sample Quality: Good

Sediment Description

Mudline Elevation in Feet (MLLW): -5.8

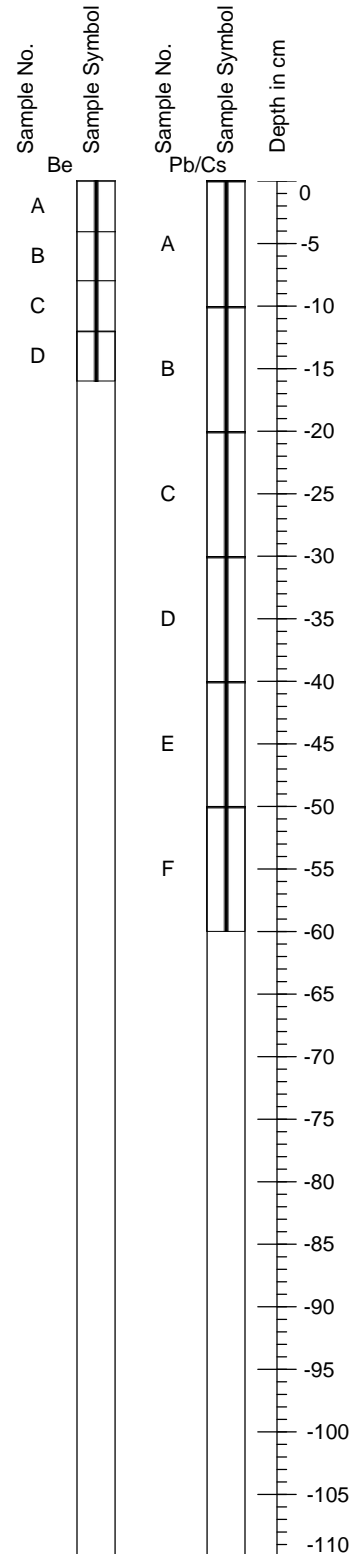
Very soft, very moist, dark olive gray SILT with trace fine sand, some wood fragments, twigs, needles, and chips, and few shell fragments.

-Wood chunk ~ 4" in Be sample C.

Medim sitff, damp SILT with some fine sand, few wood chips.

Medium stiff with softer pockets, damp, dark olive gray grading to olive gray SILT with some clay lenses and some shell fragments.

Bottom of Sediment Core at 98 Centimeters.
Completed 7/14/05.



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Sediment Core Log: AN-RI-SEDC-08

Date: 7/13/05

Drive Length in Feet: 5.3

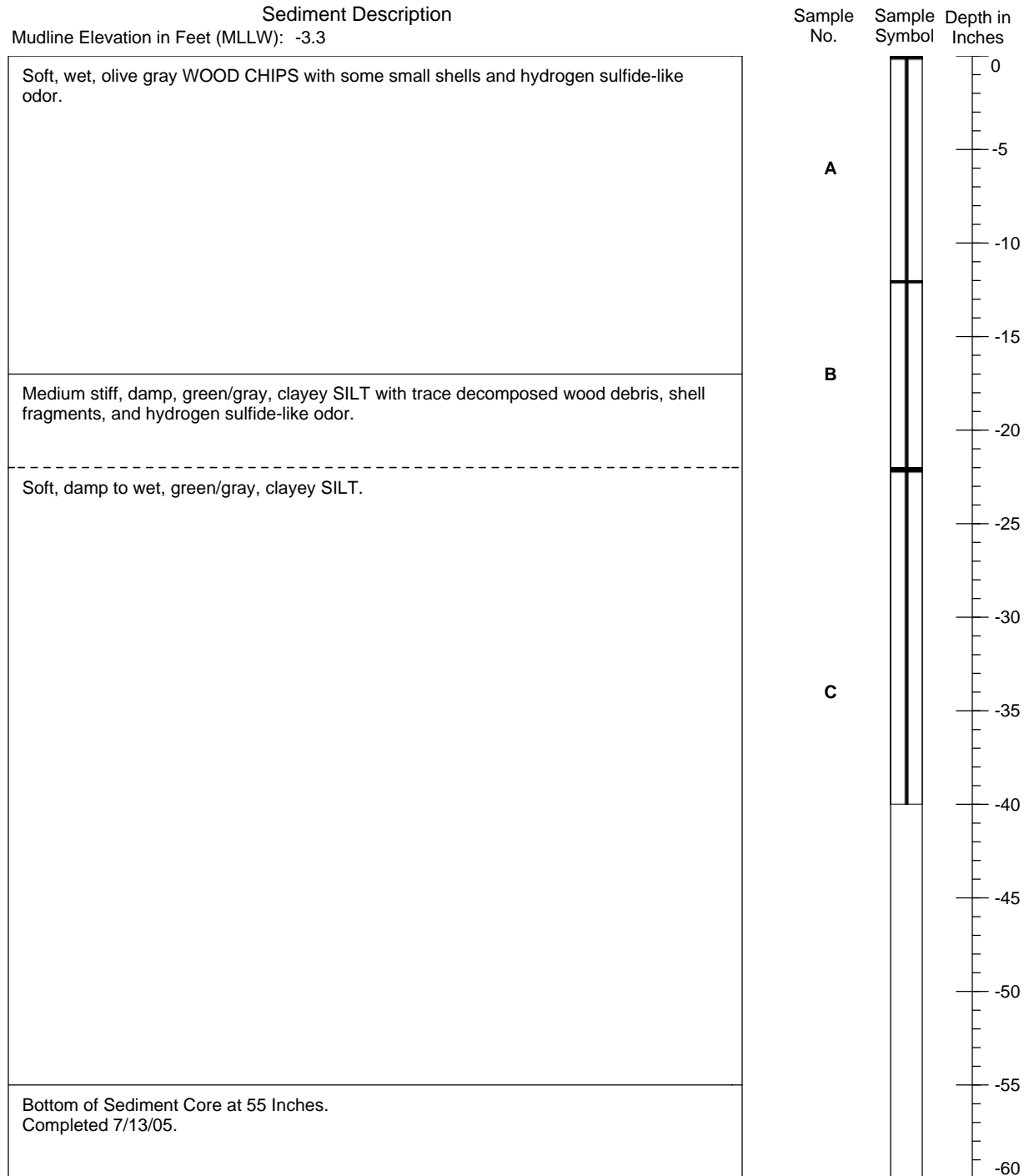
Recovery in Feet: 4.6

Percent Recovery: 87%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Fair



Note: This log is for core collected as AN-RI-SEDCRD-08. The core designation was changed to be consistent with processing and sampling. 25" space between top of core tube and undline. Wood plug at 17" below the mudline. Material in tube settled while on the boat.



Figure B-11
Sediment Sample AN-RI-SEDC-08
Former Scott Paper Mill
Anacortes, Washington

Sediment Core Log: AN-RI-SEDCRD-08

Date: 7/13/05

Drive Length in Feet: 8.3

Recovery in Feet: 7.9

Percent Recovery: 95%

Type of Sample: Vibracore

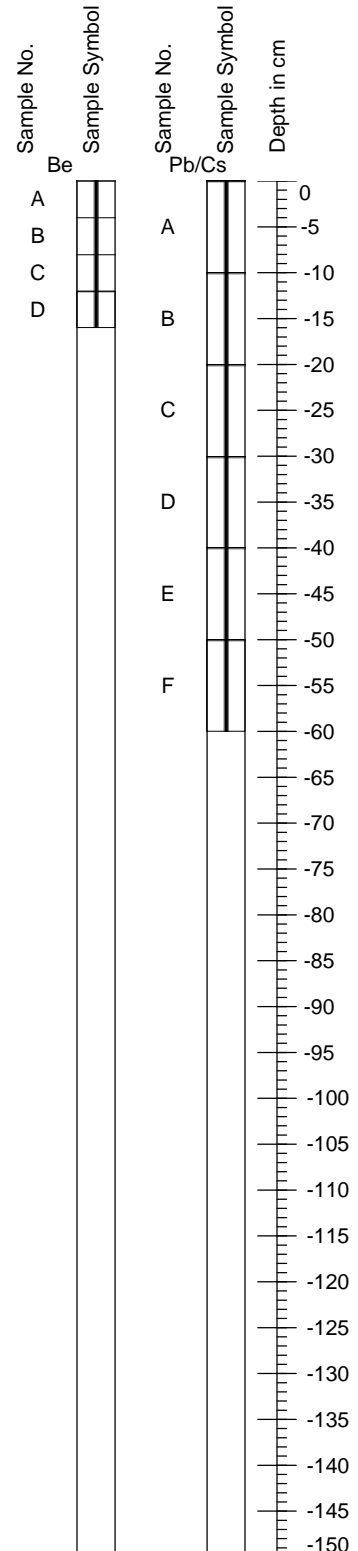
Diameter of Sample: 4"

Sample Quality: Good

Sediment Description

Mudline Elevation in Feet (MLLW): -2.6

Wood chips on surface.
Soft, wet, dark gray, silty CLAY with abundant organic matter, abundant wood debris, chunks and fibers, strong sulfide-like odor.
Soft, wet, olive gray to green gray, silty CLAY with trace sand and some wood fibers. (Note: Sample ANRISEDCZ08A - 16 to 35 cm was taken from this core.)
Soft, damp, green gray, silty CLAY with trace sand, abundant wood fiber layer. (Note: Sample ANRISEDCZ08B - 35 to 61 cm was taken from this core.)
Medium stiff, damp, light gray, silty CLAY.
Bottom of Sediment Core at 133 Centimeters. Completed 7/13/05.



Notes: This log is for the core collected as AN-R1-SEDC-08, because this cor provided a better sediment quality radioisotope samples. Two samples for analytical chemistry were also collected from this core.

Figure B-12

Sediment Sample AN-RI-SEDCRD-08

Former Scott Paper Mill
Anacortes, Washington



Sediment Core Log: AN-RI-SEDC-09

Date: 7/13/05

Drive Length in Feet: 7.5

Recovery in Feet: 4.7

Percent Recovery: 95%

Type of Sample: Vibracore

Diameter of Sample: 4"

Sample Quality: Good

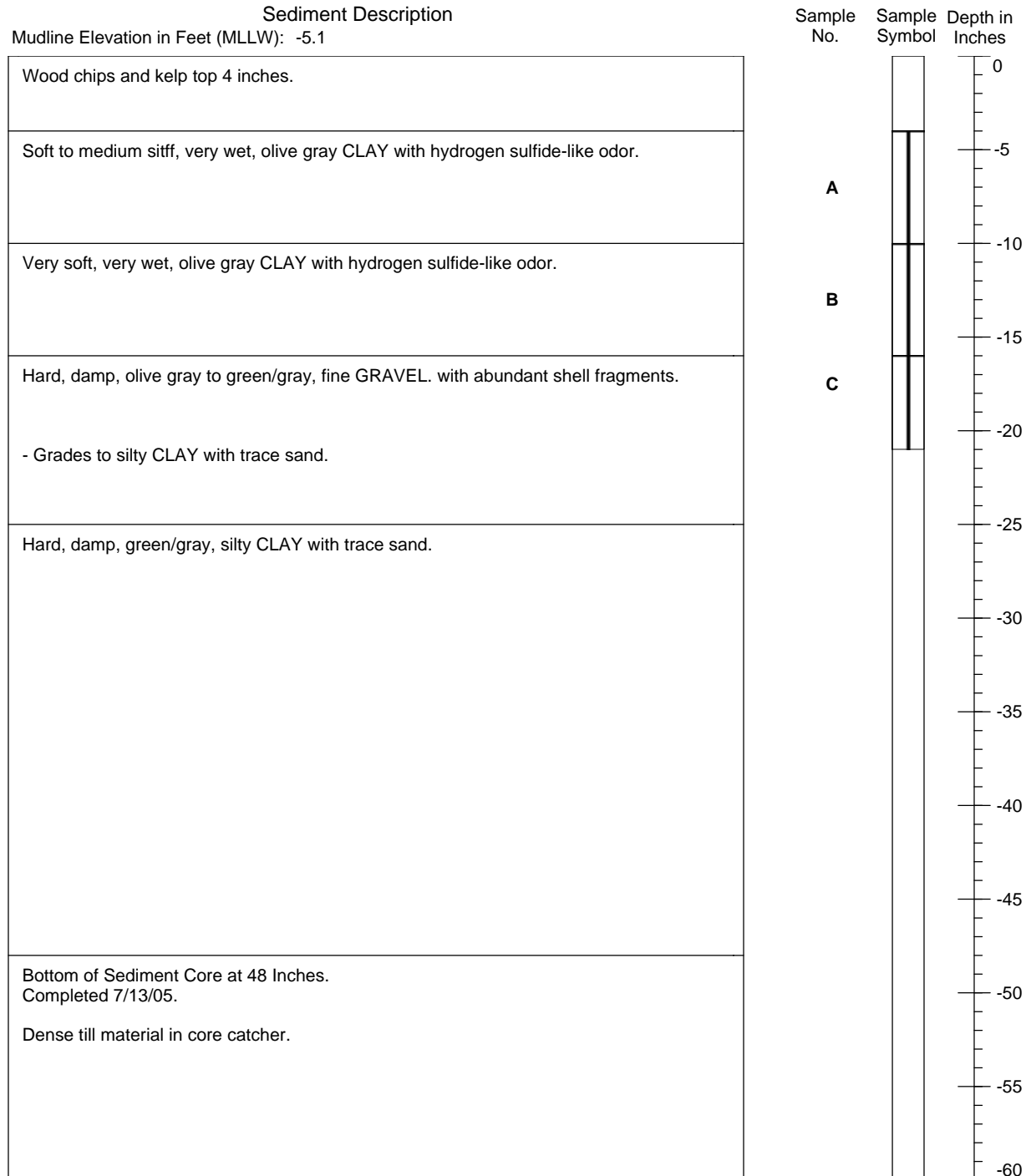




Figure B-14. Core samples AN-RI-SEDC-01. Top section.



Figure B-15. Core samples AN-RI-SEDC-01. Top section.



Figure B-16. Core samples AN-RI-SEDC-01. Top section.



Figure B-17. Core Sample AN-RI-SEDC-02. Top section.



Figure B-18. Core Sample AN-RI-SEDC-02. Top section.



Figure B-19. Core Sample AN-RI-SEDCRD-02. Top section.



Figure B-20. Core sample AN-RI-SEDCRD-02. Top section.



Figure B-21. Core samples AN-RI-SEDC-03. Top section



Figure B-22. Core samples AN-RI-SEDC-04. Top section



Figure B-23. Core samples AN-RI-SEDC-04. Top section



Figure B-24. Core samples AN-RI-SEDC-04. Top section



Figure B-25. Core Sample AN-RI-SEDC-06. Second section.



Figure B-26. Core Sample AN-RI-SEDC-06. Top section.



Figure B-27. Core Sample AN-RI-SEDC-06. Top section.



Figure B-28. Core sample AN-RI-SEDCRD-06. Top section.



Figure B-29. Core Sample AN-RI-SEDC-07. Bottom of top section.



Figure B-30. Core Sample AN-RI-SEDC-07. Top of first section after sample removed.



Figure B-31. Core sample AN-RI-SEDCRD-07. Top section.



Figure B-32. Core sample AN-RI-SEDCRD-07. Top section.



Figure B-33. Core samples AN-RI-SEDC-08 and AN-RI-SEDCRD-08. Top section.



Figure B-34. Core samples AN-RI-SEDC-08 and AN-RI-SEDCRD-08. Top section.



Figure B-35. Core sample AN-RI-SEDC-08. Second section.



Figure B-36. Core samples AN-RI-SEDC-09. Top section.



Figure B-37. Core samples AN-RI-SEDC-09. Top section.