

Appendix A. Core Descriptions and Photographs

The core-naming convention used in the report body is shortened slightly from that recorded in the field and used on the core descriptions and photographs in this appendix. The full naming convention includes the two-digit year the core was collected, a three-digit identifier (SB1, Management Unit 1, SB3, Management Unit 3, or SB5, Management Unit 5), the two-digit core number, and a “p” or “v” designation identifying whether the push or vibracore method was used; for example, 08-SB1-01p identifies a push core taken at SNWR Management Unit 1 site #1 in 2008. In the report body and appendix B, the year identifier is dropped from the core name. Lithologic symbols used in this report are modified from the Federal Geographic Data Committee geologic map standards (Federal Geographic Data Committee, 2006), and color descriptions refer to the Munsell color system (Goddard and others, 1963). Compaction results are only reported for vibracores; these measurements do not apply (“n/a”) to the push cores. The organic content of the sediments was estimated visually, not analytically.

EXPLANATION OF SYMBOLS USED IN CORE DESCRIPTIONS

Lithology	Bedding and Deformation	Physical Characteristics
	≡ Laminated	>>> Root mat
	/ Inclined contact or bedding	> Root pieces
	∪ Deformed contact or bedding: concave-up	Y Organic clast
	∩ Deformed contact or bedding: concave-down	≠ Woody fragment
	≈ Deformed contact or bedding: wavy or irregular	^ Shell fragment

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-01p

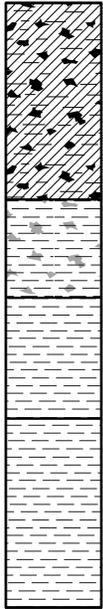
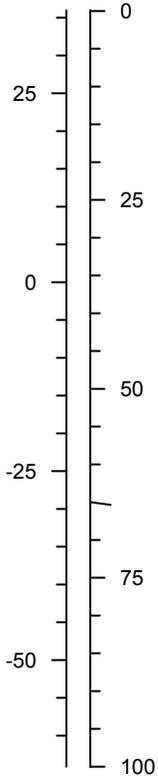
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 44.9" N LONGITUDE: 93° 27' 54.0" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/8/2008

WATER DEPTH: 6 cm ELEVATION: 36 cm

CORE LENGTH: 80 cm COMPACTION: n/a



0-26 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to sapric peat, with root pieces up to 1 mm x 2 cm long

- gradational contact -

26-39 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with peaty texture

- gradational contact -

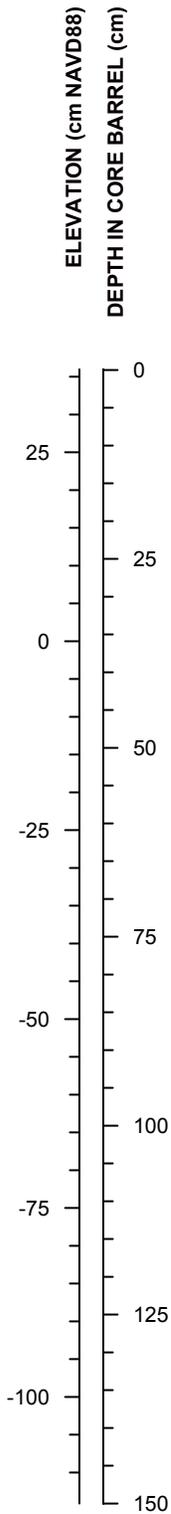
39-55 cm: CLAY, grayish olive-green (5GY 3/2) or ganic-poor mud and clay, with a few disseminated olive-black (5Y 2/1) organic clasts and flecks

- gradational contact -

55-80 cm: CLAY, grayish olive-green (5GY 3/2) and dusky yellow (5Y 6/4) mottled clay, with a few disseminated small black (N1) organic clasts

SBI-01P





LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS



CORE ID: 08-SB1-01v

LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 44.9" N **LONGITUDE:** 93° 27' 54.0" W

DATE CORED: 6/5/2008 **DATE DESCRIBED:** 10/1/2008

WATER DEPTH: 6 cm **ELEVATION:** 36 cm

CORE LENGTH: 126 cm **COMPACTION:** 17.5 cm

0-13 cm: PEAT, brownish-black (5YR 2/1) muddy fibric peat

13-26 cm: PEAT, brownish-black (5YR 2/1) hemic peat, with visible root fragments becoming less common down-core

- gradational contact -

26-35 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with black (N1) peaty clasts and occasional medium light-gray (N6) clean clay lenses

- gradational contact -

35-48 cm: CLAY, olive-black (5Y 2/1) to olive-gray (5Y 4/1) massive organic-poor mud and clay, with occasional medium light-gray (N6) clean clay lenses

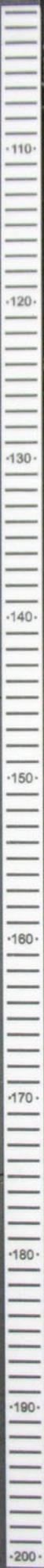
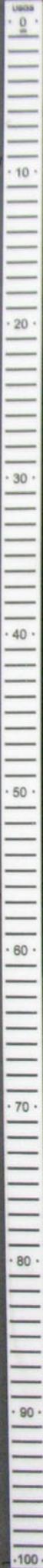
- gradational contact -

48-97 cm: CLAY, olive-gray (5Y 4/1), medium light-gray (N6), and dark yellowish-orange (10YR 6/6) mottled clay, with a few disseminated silt clasts and a brownish-black (5YR 2/1) fibrous root mass along core wall from 69-81 cm

- gradational contact -

97-126 cm: SILT and CLAY, medium light-gray (N6), pale yellowish-brown (10YR 6/2), and dark yellowish-orange (10YR 6/6) mottled clay, silt, and very fine-grained sand, with silt and sand content increasing down-core

08-SBI-01



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-02p

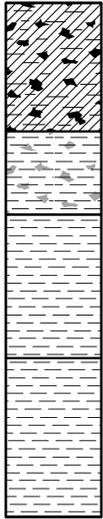
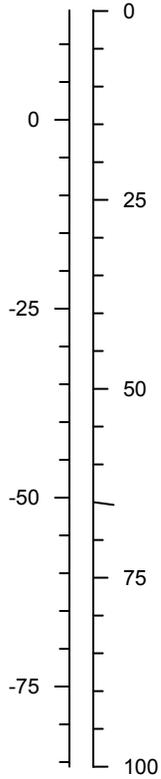
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 45.0" N LONGITUDE: 93° 27' 54.0" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/8/2008

WATER DEPTH: 20.5 cm ELEVATION: 14 cm

CORE LENGTH: 68 cm COMPACTION: n/a



0-17 cm: PEAT, dusky yellowish-brown (10YR 2/2) muddy hemic to fibric peat, with visible root fragments most common from 0-10 cm

- gradational contact -

17-28 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with a few disseminated root fragments

28-47 cm: CLAY, medium dark-gray (N4) massive organic-poor mud and clay, with disseminated organic flecks and silty lenses from 37-41 cm

- gradational contact -

47-68 cm: CLAY, medium dark-gray (N4) massive clay, with grayish olive-green (5GY 3/2) clean clay lenses

SBI-02P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-03p

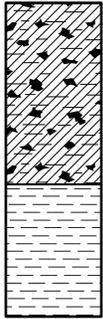
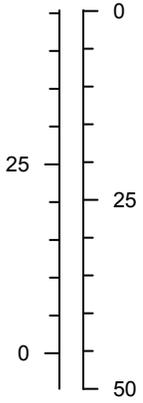
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 46.3" N LONGITUDE: 93° 28' 1.6" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/8/2008

WATER DEPTH: -10 cm ELEVATION: 45 cm

CORE LENGTH: 41.5 cm COMPACTION: n/a



0-24 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric to hemic peat and muddy peat, with root pieces up to 2 mm x 10 cm long

- gradational contact -

24-41.5 cm: MUD, grayish olive-green (5GY 3/2) massive organic-rich to organic-poor mud and clay, with disseminated moderate brown (5Y 3/4) or olive-black (5Y 2/1) peaty lenses and organic clasts

SBI-03P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-03v

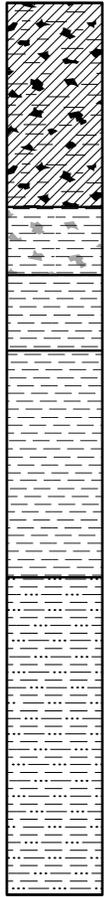
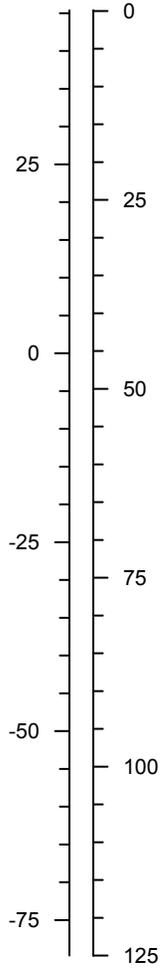
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 46.3" N LONGITUDE: 93° 28' 1.6" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 10/16/2008

WATER DEPTH: -10 cm ELEVATION: 45 cm

CORE LENGTH: 118 cm COMPACTION: 23 cm



0-27 cm: PEAT, brownish-black (5YR 2/1) fibric to hemic peat and muddy peat, with root pieces up to 2 mm x 7 cm from 0-20 cm

- gradational contact -

27-36 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) to olive-black (5Y 2/1) organic-rich mud, with disseminated root fragments up to 2 mm x 2 cm long and black (N1) peaty clasts

- gradational contact -

36-46 cm: CLAY, olive-black (5Y 2/1) to olive-gray (5Y 4/1) organic-poor mud and clay, with a few disseminated root fragments and black (N1) organic flecks

- gradational contact -

46-76 cm: CLAY, light olive-gray (5Y 5/2), light olive-brown (5Y 5/6), and olive-gray (5Y 4/1) mottled clay, with a few degraded root fragments and disseminated olive-black (5Y 2/1) organic clasts and lenses

76-118 cm: SILT and CLAY, light-gray (N7), pale yellowish-brown (10YR 6/2), and dark yellowish-orange (10YR 6/6) mottled silt and clay, with indurated clay clasts from 81-104 cm

08-SBI-03

0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-04p

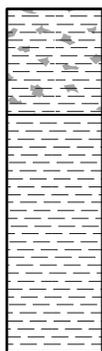
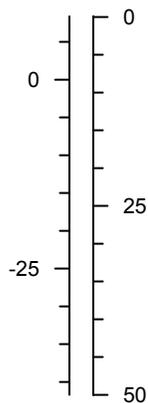
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 46.2" N **LONGITUDE:** 93° 28' 1.3" W

DATE CORED: 6/5/2008 **DATE DESCRIBED:** 7/9/2008

WATER DEPTH: 27 cm **ELEVATION:** 8 cm

CORE LENGTH: 45.5 cm **COMPACTION:** n/a



0-14 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) massive organic-rich silty mud, with disseminated root fragments and peaty texture from 0-7 cm

- gradational contact -

14-45.5 cm: CLAY, medium dark-gray (N4), pale yellowish-brown (10YR 6/2), and dusky yellow (5Y 6/4) organic-poor mud and mottled clay, with a few disseminated black (N1) organic clasts

SBI-04P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-05p

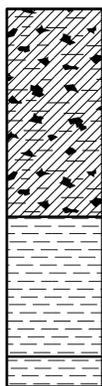
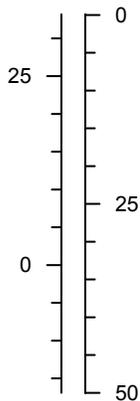
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 46.3 N LONGITUDE: 93° 28' 13.2" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/10/2008

WATER DEPTH: 2.5 cm ELEVATION: 33 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-27.5 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to sapric peat and muddy peat, with large root pieces up to 5 mm x 6 cm long from 0-9 cm

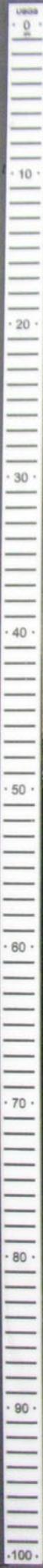
- gradational contact -

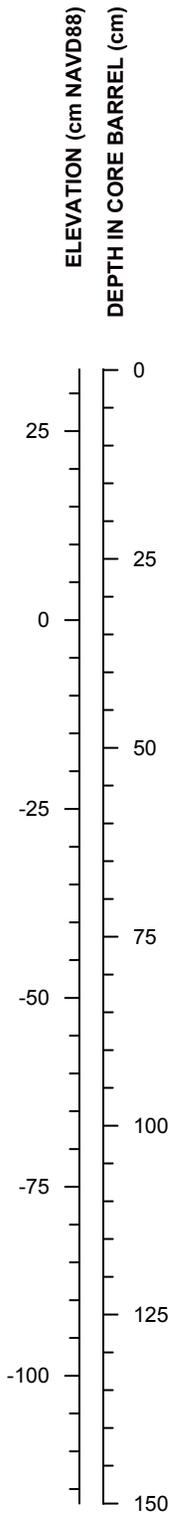
27.5-46 cm: MUD, grayish olive-green (5GY 3/2), massive organic-rich to organic-poor mud and clay, with disseminated small, pale yellowish-brown (10YR 6/2) silty clasts

- gradational contact -

46-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled clay

SBI-05P





LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-05v

LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 46.3 N **LONGITUDE:** 93° 28' 13.2 W
DATE CORED: 6/5/2008 **DATE DESCRIBED:** 1/28/2009
WATER DEPTH: 2.5 cm **ELEVATION:** 33 cm
CORE LENGTH: 136 cm **COMPACTION:** 22 cm

0-13 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat, root pieces up to 5 mm x 3 cm long

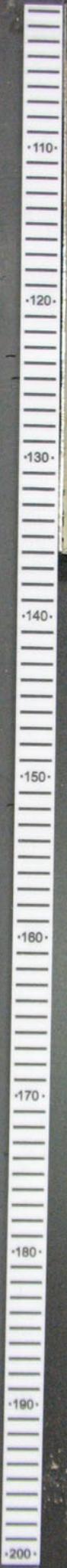
13-20 cm: MUDDY PEAT, brownish-black (5YR 2/1) muddy hemic peat, with disseminated root fragments
 - sharp contact -

20-30 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty clasts and a few disseminated root fragments
 - gradational contact -

30-77 cm: CLAY, olive-gray (5Y 4/1), medium light-gray (N6), and dark yellowish-orange (10YR 6/6) organic-poor mud and mottled clay and silty clay, with a few disseminated black organic clasts and flecks and a brownish-black (5YR 2/1) root mass along core wall from 46-49 cm, silt content increases down-core below 36 cm
 - gradational contact -

77-136 cm: CLAY, light-gray (N7), pale yellowish-brown (10YR 6/2), and dark yellowish-orange (10YR 6/6), mottled clay and silty clay, with olive-gray (5Y 4/1) muddy clay clasts from 86-91 and 94-99 cm, and disseminated small, indurated light brown (5YR 5/6) clay clasts within dark yellowish-orange clay lenses

08-SBI-05
136 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-06p

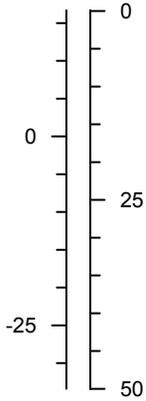
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 46.3" N LONGITUDE: 93° 28' 13.3" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/10/2008

WATER DEPTH: 19 cm ELEVATION: 17 cm

CORE LENGTH: 37 cm COMPACTION: n/a



0-9 cm: PEAT, dusky yellowish-brown (10YR 2/2) muddy hemic to sapric peat, with root pieces up to 5 mm x 2 cm long and poor recovery of fluid sediments from 0-7 cm

- gradational contact -

9-17 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) mud, with disseminated root fragments and small, moderate brown (5YR 3/4) silty lenses

- gradational contact -

17-37 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4), organic-poor mud and mottled clay, with silty lenses most common from 17-21 cm and a clean, light olive-gray (5Y 6/1) clay lens from 20-22 cm

SBI-06P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-07p

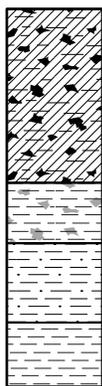
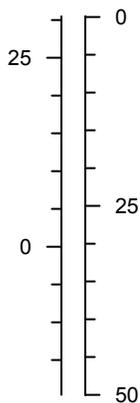
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 46.0" N LONGITUDE: 93° 28' 24.3" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/10/2008

WATER DEPTH: 5.5 cm ELEVATION: 30 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-23 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic peat and muddy peat, with root pieces up to 5 mm x 7 cm long most common from 0-14 cm and poor recovery of fluid sediments from 0-5 cm

- gradational contact -

23-31 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with silty to very fine-grained sandy clasts and lenses

- gradational contact -

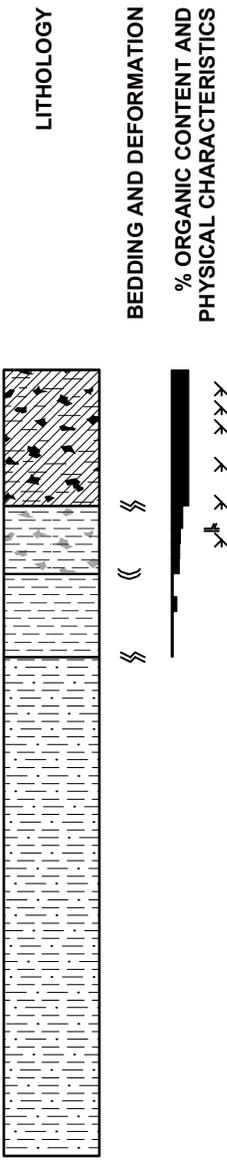
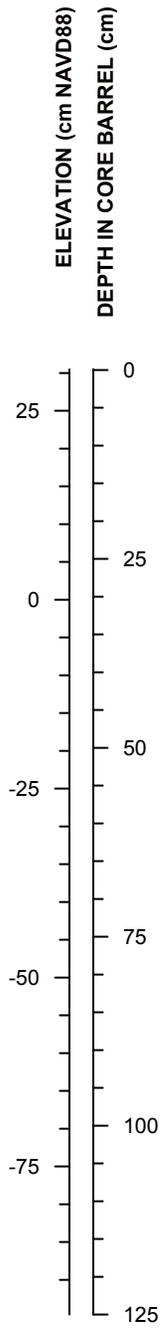
31-41.5 cm: CLAY, grayish olive-green (5GY 3/2) massive clay and silty clay

- gradational contact -

41.5-50 cm: CLAY, medium-gray (N5) and dusky yellow (5Y 6/4) mottled clay

SBI-07P



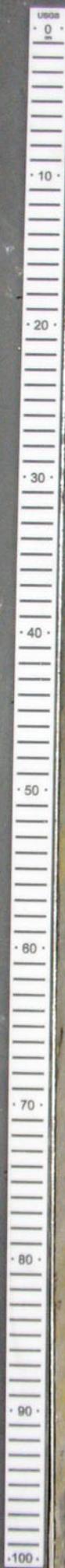


CORE ID: 08-SB1-07v
LOCATION: Sabine National Wildlife Refuge Study Area 1
 Cameron Parish, LA (marsh vibracore)
LATITUDE: 29° 56' 46.0" N **LONGITUDE:** 93° 28' 24.3" W
DATE CORED: 6/5/2008 **DATE DESCRIBED:** 1/28/2009
WATER DEPTH: 5.5 cm **ELEVATION:** 30 cm
CORE LENGTH: 104 cm **COMPACTION:** 10 cm

0-18 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 5 mm x 5 cm long from 0-8 cm
 - sharp contact -
 18-27 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) to grayish-black (5Y 2/1) organic-rich mud, with a few disseminated root fragments and small pale yellowish-brown (10YR 6/2) silty to very fine-grained sandy lenses
 - gradational contact -
 27-38 cm: CLAY, grayish-black (5Y 2/1) organic-poor mud and clay
 - gradational contact -
 38-104 cm: CLAY, pale yellowish-brown (10YR 6/2) and dark yellowish-orange (10YR 6/6) mottled silty clay, with disseminated black organic flecks, silt content increases down core

08-SB1-07

104 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-08p

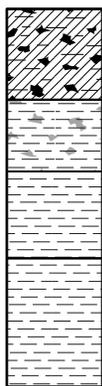
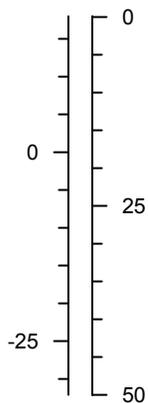
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 46.1" N LONGITUDE: 93° 28' 24.3" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/11/2008

WATER DEPTH: 18 cm ELEVATION: 18 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-12 cm: PEAT, dusky yellowish-brown (10YR 2/2) sapric peat and muddy peat, with thin, vertical pale yellowish-brown (10YR 6/2) clay lenses from 10-13 cm

- gradational contact -

12-21.5 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 5/2) organic-rich mud, with dusky yellow (5Y 6/4) silty to very fine-grained sandy lenses

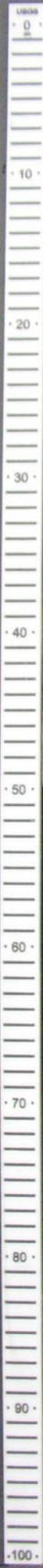
- gradational contact -

21.5-33 cm: CLAY, grayish olive-green (5GY 5/2) organic-poor mud and clay, with dusky yellow (5Y 6/4) silty to very fine-grained sandy lenses

- gradational contact -

33-50 cm: CLAY, medium-gray (N5) and dusky yellow (5Y 6/4), dense, mottled clay

SBI-08P



ELEVATION (cm NAVD88)
 DEPTH IN CORE BARREL (cm)

LITHOLOGY

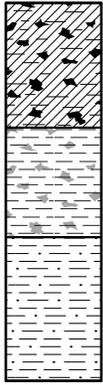
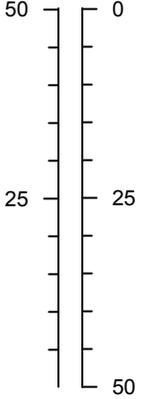
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
 PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-09p

LOCATION: Sabine National Wildlife Refuge Study Area 1
 Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 38.6" N LONGITUDE: 93° 28' 33.4" W
 DATE CORED: 6/5/2008 DATE DESCRIBED: 7/10/2008
 WATER DEPTH: -14 cm ELEVATION: 50 cm
 CORE LENGTH: 50 cm COMPACTION: n/a



0-16.5 cm: PEAT, dusky yellowish-brown (10YR 2/2) muddy hemic to sapric peat, with root pieces up to 5 cm long
 - gradational contact -

16.5-31 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with pale yellowish-brown (10YR 6/2) to pale brown (5YR 5/2) silty to sandy lenses and a few disseminated root fragments
 - gradational contact -

31-50 cm: CLAY AND SAND, grayish olive-green (5GY 3/2) mottled organic-poor mud and silty clay and pale brown (5YR 5/2) very fine-grained sand, with a few disseminated root fragments and organic flecks

SBI-09P



CORE ID: 08-SB1-09v

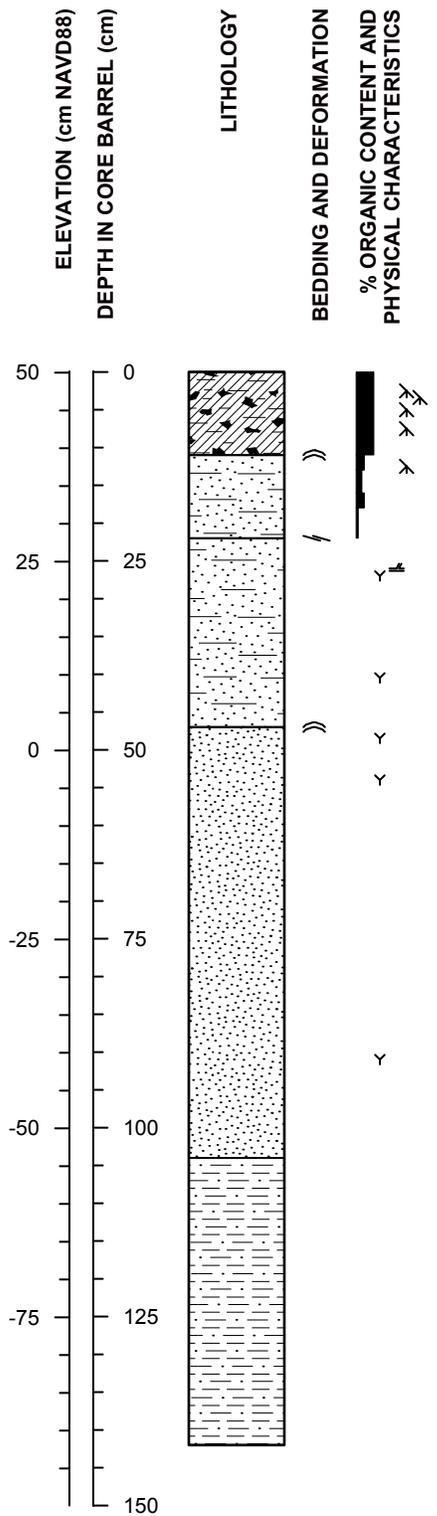
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 38.6" N **LONGITUDE:** 93° 28' 33.4" W

DATE CORED: 6/5/2008 **DATE DESCRIBED:** 1/29/2009

WATER DEPTH: -14 cm **ELEVATION:** 50 cm

CORE LENGTH: 142 cm **COMPACTION:** 11 cm



0-11 cm: PEAT, brownish-black (5YR 2/1) sapric peat, with small root pieces up to 1 cm long

- sharp contact -

11-22 cm: SAND, pale yellowish-brown (10YR 6/2) organic-rich mud and muddy sand, with organic-rich muddy lenses, root fragments up to 1 cm long, and disseminated black organic clasts and flecks

- sharp contact -

22-47 cm: SAND, pale yellowish-brown (10YR 6/2) muddy sand, with a few degraded root fragments, disseminated black organic clasts and flecks, and light-olive-brown (5Y 5/5) silty lenses increasing in content down-core

-sharp deformed contact -

47-104 cm: SAND, yellowish-gray (5Y 7/2) very fine-grained sand, with pale yellowish-brown (10YR 6/2) muddy sand wedge from 50-56 cm, light olive-brown (5Y 5/6) to dark yellowish-orange (10YR 6/6) silty lenses, and moderate brown (5YR 4/4) indurated clay clasts

- gradational contact -

104-142 cm: CLAY, light-gray (N7) and dark yellowish-orange (10YR 6/6) mottled silty clay, with grayish-brown (5YR 3/2) to moderate brown (5YR 4/4) indurated clay clasts

08-SBI-09
142 cm

USGS
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100



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160
170
180
190
200



ELEVATION (cm NAVD88)
 DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
 PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-10p

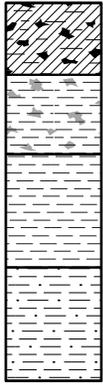
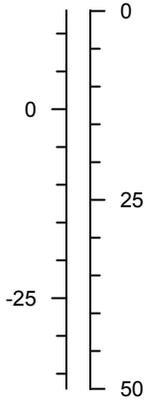
LOCATION: Sabine National Wildlife Refuge Study Area 1
 Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 38.7" N LONGITUDE: 93° 28' 33.4 W

DATE CORED: 6/5/2008 DATE DESCRIBED: 7/10/2008

WATER DEPTH: 23 cm ELEVATION: 13 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-9.5 cm: PEAT, grayish olive-green (5GY 3/2) muddy sapric peat, with root pieces up to 2 cm long

- gradational contact -

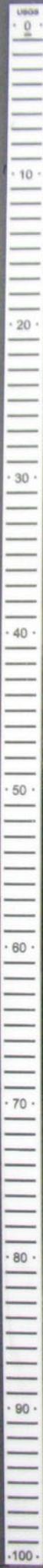
9.5-20 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with small (1 cm) silty lenses from 15-20 cm

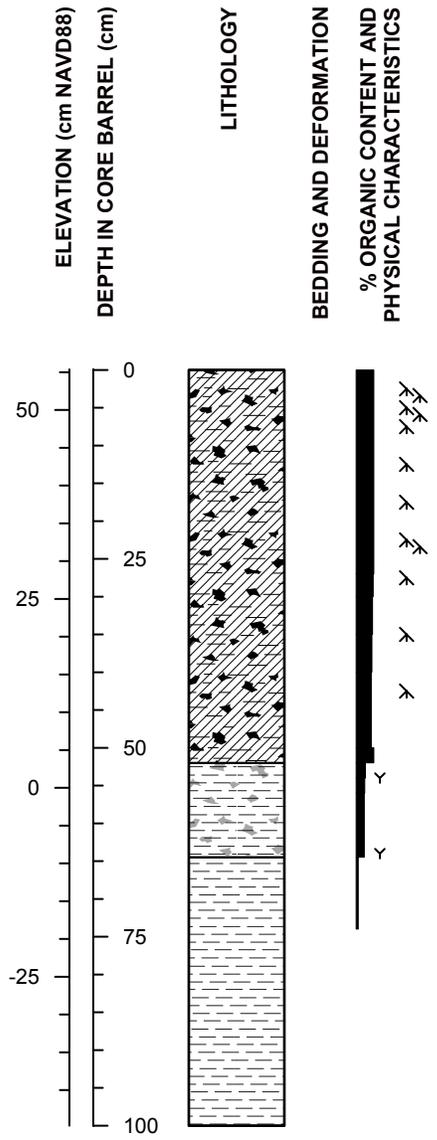
- gradational contact -

20-35 cm: CLAY, medium-gray (N4) clay, with disseminated organic clasts and flecks

35-50 cm: CLAY, medium-gray (N4) and dusky yellow (5Y 6/4) mottled clay and silty clay, with silty clasts and a few disseminated organic flecks

SBI-10P





CORE ID: 08-SB1-11p

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 0.5" N **LONGITUDE:** 93° 30' 18.0" W

DATE CORED: 6/6/2008 **DATE DESCRIBED:** 7/11/2008

WATER DEPTH: 5 cm **ELEVATION:** 55 cm

CORE LENGTH: 100 cm **COMPACTION:** n/a

0-52 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric to sapric peat, with root pieces up to 5 mm x 5 cm long from 0-6 and 21-27 cm

- gradational contact -

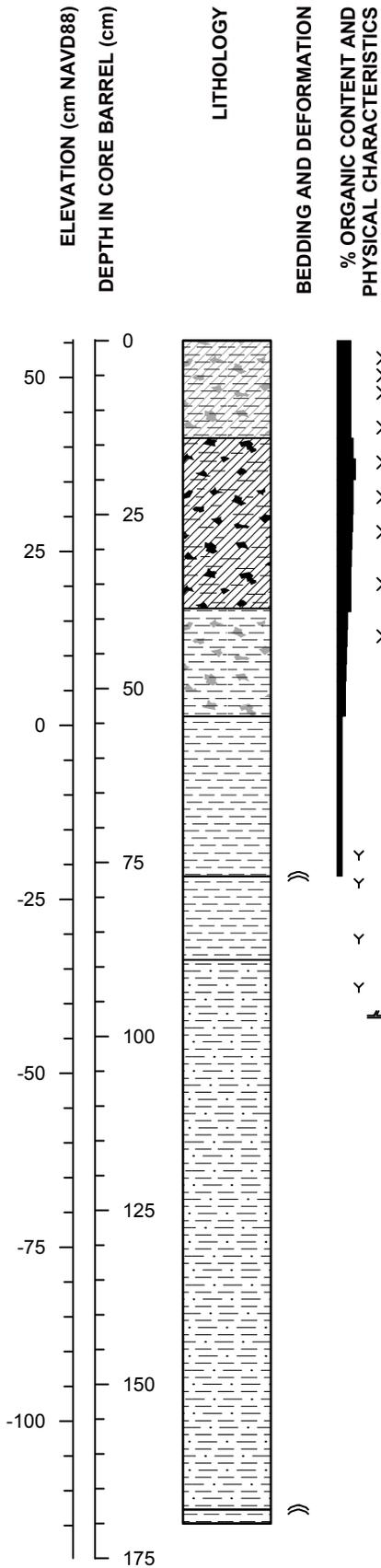
52-64.5 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with peaty clasts and a few disseminated silty lenses and root fragments

- gradational contact -

64.5-100 cm: CLAY, medium-gray (N4) and dusky yellow (5Y 6/4) organic-poor mud and mottled clay, with disseminated small silty clasts and a very fine-grained sandy lens from 64.5-65 cm

SBI-11P





CORE ID: 08-SB1-11v

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 0.5" N LONGITUDE: 93° 30' 18.0" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 1/29/2009

WATER DEPTH: 5 cm ELEVATION: 55 cm

CORE LENGTH: 170 cm COMPACTION: 13 cm

0-14 cm: PEAT, brownish-black (5YR 2/1) saturated muddy fibric peat, with root pieces up to 5 mm x 6 cm long

14-38.5 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat, with visible root fragments becoming less common down-core and a small (1 cm diameter) olive-gray (5Y 4/1) clay lens from 29-30 cm

- gradational contact -

38.5-77 cm: MUD, brownish-black (5YR 2/1) massive organic-rich to organic-poor mud, with a thin (<5 mm) silty lens at 38.5 cm, disseminated root fragments and peaty texture from 38.5-54 cm, and occasional light-gray (N7) clean clay lenses

- gradational contact -

77-89 cm: CLAY, light-gray (N7) clean clay, with olive-gray (5Y 4/1) muddy lenses and a few disseminated root fragments

- gradational contact -

89-168 cm: CLAY, pale yellowish-brown (10YR 6/2) mottled silty clay, with light olive-brown (5Y 5/6) silty clasts and a few disseminated small black organic clasts

- sharp deformed contact -

168-170 cm: CLAY, very pale orange (10YR 8/2) clean clay

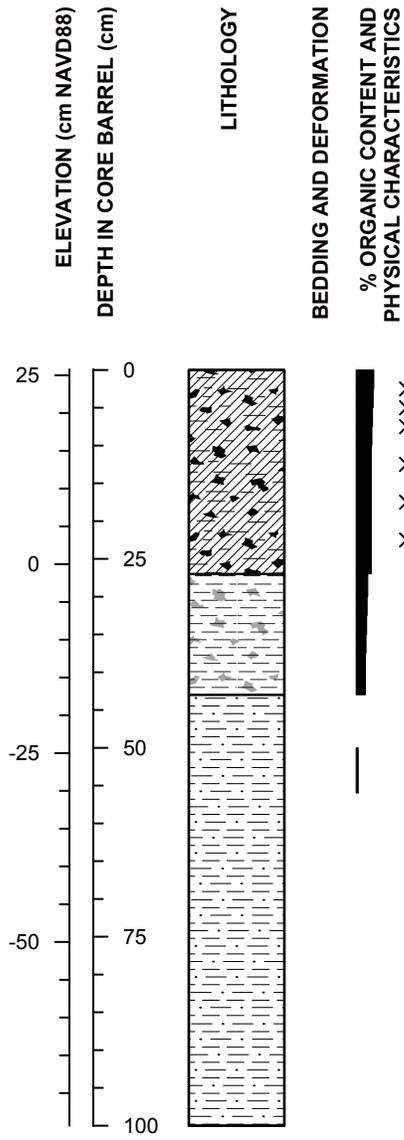
08-SBI-11
170 cm

0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200





CORE ID: 08-SB1-12p

LOCATION: Sabine National Wildlife Refuge Study Area 2
 Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 0.7" N **LONGITUDE:** 93° 30' 17.9" W

DATE CORED: 6/6/2008 **DATE DESCRIBED:** 7/14/2008

WATER DEPTH: 11 cm **ELEVATION:** 26 cm

CORE LENGTH: 100 cm **COMPACTION:** n/a

0-27 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to sapric peat, with thin, vertical clay lenses extending from 24 cm into the underlying unit

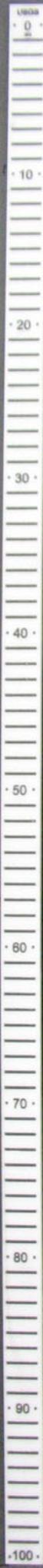
- gradational contact -

27-43 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic mud, with thin, vertical clay lenses to 33 cm and disseminated small dusky yellow (5Y 6/4) silty lenses

- gradational contact -

43-100 cm: CLAY, medium-gray (N5) and dusky yellow (5Y 6/4) mottled clay and silty clay, with large (5 cm diameter) grayish olive-green (5GY 3/2) muddy clasts from 50-56 cm, silt content increases down-core

SBI-12P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-13p

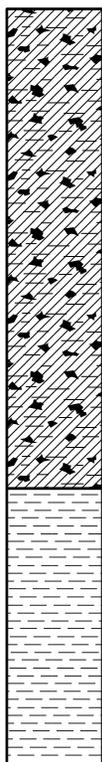
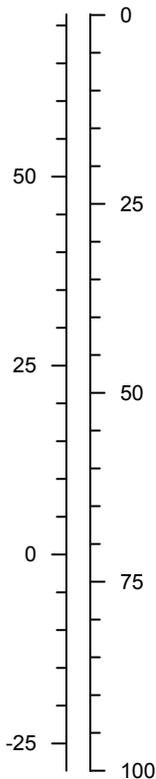
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh-interior push core)

LATITUDE: 29° 56' 0.3" N LONGITUDE: 93° 30' 18.4" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/14/2008

WATER DEPTH: -34 cm ELEVATION: 71 cm

CORE LENGTH: 100 cm COMPACTION: n/a

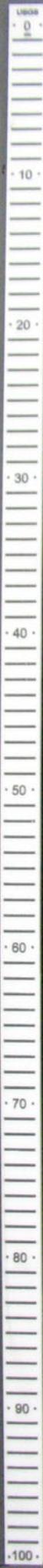


0-63.5 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic peat, with root pieces up to 4 cm long from 16-26 cm and poor recovery of fluid sediments from 0-30 cm

- gradational contact -

63.5-100 cm: CLAY, grayish olive-green (5GY 3/2) and medium-gray (N5) massive organic-poor mud and clay, with a thin (<5 mm) sandy horizon at 63.5 cm and a few disseminated silty lenses and organic clasts

SBI-13P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-14p

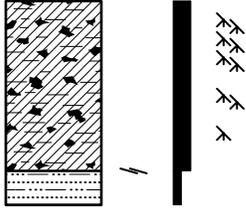
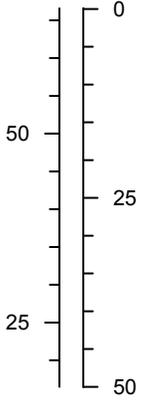
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 35.1" N LONGITUDE: 93° 30' 16.5" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/14/2008

WATER DEPTH: -29 cm ELEVATION: 66 cm

CORE LENGTH: 27 cm COMPACTION: n/a



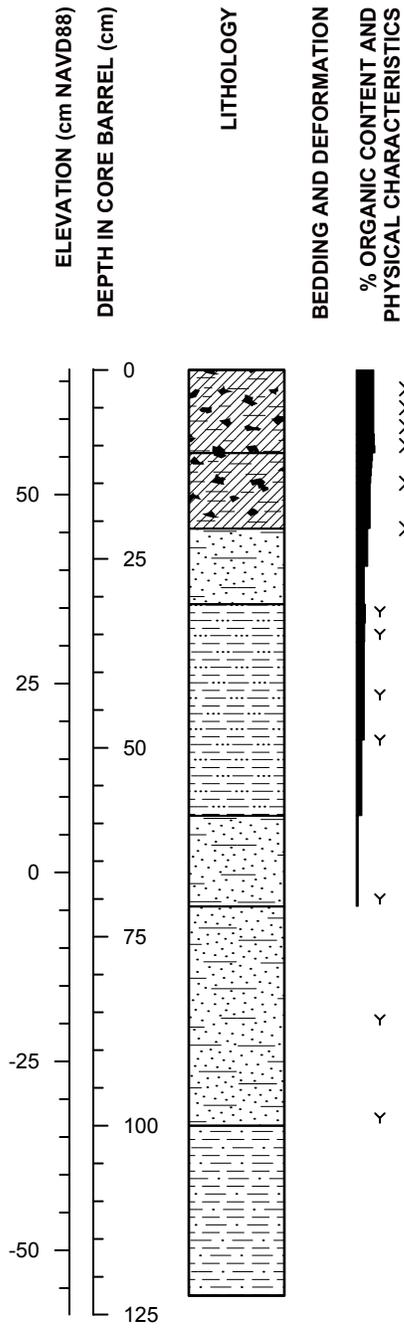
0-22.5 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric to sapric peat, with root pieces up to 2 mm x 2 cm long and sandy lenses from 5.5-6.5 and 16.5-17.5 cm

- sharp contact -

22.5-27 cm: SILT and SAND, grayish olive-green (5GY 3/2) and pale brown (5YR 5/2) mottled organic-poor silt and very fine-grained sand

SBI-14P





CORE ID: 08-SB1-14v

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 35.1" N LONGITUDE: 93° 30' 16.5" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 1/30/2009

WATER DEPTH: -29 cm ELEVATION: 66 cm

CORE LENGTH: 122.5 cm COMPACTION: 0 cm

0-11 cm: PEAT, brownish-black (5YR2/1) fibric peat, with root pieces up to 1 cm x 4 cm long most common from 8.5-11 cm

11-21 cm: PEAT, brownish-black (5YR 2/1) to dark yellowish-brown (10YR 4/2) sandy hemic to sapric peat, with thin (<1 mm) root fibers upto 5 cm long, sand content increases down-core

- gradational contact -

21-31 cm: SAND, dark yellowish-brown (10YR 4/2) massive organic-rich to organic-poor muddy sand, with a few degraded root fragments

- gradational contact -

31-59 cm: MUD, dark yellowish-brown (10YR 4/2) to pale yellowish-brown (10YR 6/2) massive organic-poor sandy mud, with a few degraded root fragments

- gradational contact -

59-71 cm: SAND, pale yellowish-brown (10YR 6/2) massive organic-poor muddy sand, with a long, thin, vertical organic lens from 68-72 cm

- gradational contact -

71-100 cm: SAND, light olive-gray (5Y 6/1), medium dark-gray (N4), and dark yellowish-orange (10YR 6/6) mottled clayey sand, with moderate brown (5YR 3/4) moderately indurated clay clasts at 78 and 90 cm and a thin, vertical organic lens from 74-81 cm

- gradational contact -

100-122.5 cm: CLAY, light-gray (N7) and dark yellowish-orange (10YR 6/6) mottled silty clay, with moderate brown (5YR 3/4) vertical organic lenses and disseminated organic flecks

08-SBI-14V
1.225 m

USGS
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80
90
100



110
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130
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150
160
170
180
190
200



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-15p

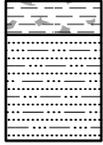
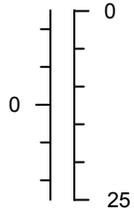
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 35.1" N LONGITUDE: 93° 30' 16.5" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/14/2008

WATER DEPTH: 25 cm ELEVATION: 12 cm

CORE LENGTH: 18.5 cm COMPACTION: n/a



0-4.5 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich mud, with disseminated root fragments and silty lenses

- gradational contact -

4.5-18.5 cm: SILT and SAND, grayish olive-green (5GY 3/2) and pale brown (5YR 5/2) mottled organic-poor silt and very fine-grained sand, with a few degraded root fragments and olive-black (5Y 2/1) organic clasts

SBI-15P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-16p

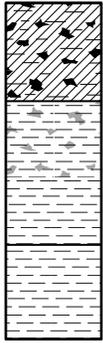
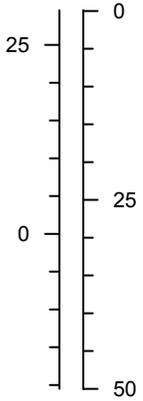
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 42.4" N LONGITUDE: 93° 30' 16.1" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/14/2008

WATER DEPTH: 8 cm ELEVATION: 30 cm

CORE LENGTH: 44.5 cm COMPACTION: n/a



0-13 cm: PEAT, dusky yellowish-brown (10YR 2/2) sapric peat and muddy peat, with root fragments up to 2 mm x 2 cm long most common from 0-6 cm and sandy lenses from 4.5-10.5 cm

- gradational contact -

13-32 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich to organic-poor mud and clay, with a few disseminated small, pale yellowish brown (10YR 6/2) silty clasts from 13-23 cm

- gradational contact -

32-44.5 cm: CLAY, medium-gray (N5) and dusky yellow (5Y 6/4) mottled clay, with occasional pale brown (5YR 5/2) silty clasts

SBI-16P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-16v

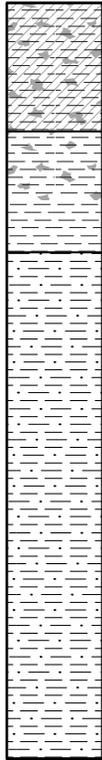
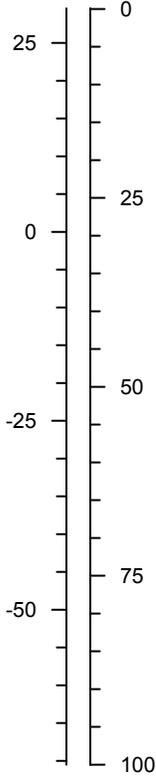
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 42.4" N **LONGITUDE:** 93° 30' 16.1" W

DATE CORED: 6/5/2008 **DATE DESCRIBED:** 2/2/2009

WATER DEPTH: 8 cm **ELEVATION:** 30 cm

CORE LENGTH: 100 cm **COMPACTION:** 22 cm



0-17 cm: MUD AND PEAT, brownish-black (5YR 2/1) saturated organic-rich mud and muddy peat, with sandy lenses from 0-7 cm, disseminated root fragments, and a fibrous root mass extending into the underlying mud unit from 8-21 cm

- gradational contact -

17-33 cm: MUD, medium dark-gray (N4) massive organic-rich to organic-poor mud and clay, with a few degraded root fragments

- gradational contact -

33-100 cm: CLAY, light olive-gray (5Y 6/1) and dark yellowish-orange (10YR 6/6) mottled silty clay, with occasional moderate brown (5YR 3/4) indurated clay clasts and disseminated olive-black (5Y 2/1) organic clasts and flecks

08-SB1-16v
100 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-17p

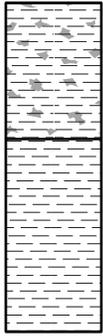
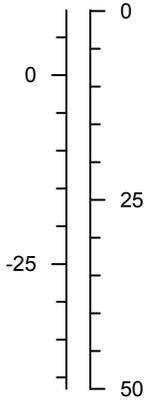
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 42.4" N LONGITUDE: 93° 30' 16.0" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/15/2008

WATER DEPTH: 29 cm ELEVATION: 8 cm

CORE LENGTH: 43.5 cm COMPACTION: n/a



0-18 cm: ORGANIC-RICH MUD, grayish olive-green (5GY 3/2) organic-rich to organic-poor mud, with silty to sandy lenses from 0-9 cm and pale brown (5YR 5/2) silty clasts from 9-18 cm

- gradational contact -

18-43.5 cm: CLAY, grayish olive-green (5GY 3/2) and dusky yellow (5Y 6/4) mottled clay, with vertical to subvertical, moderate yellowish-brown (10YR 5/4) silty to very fine-grained sandy lenses from 30-43.5 cm, silt and sand content increases down-core

SBI-17P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-18p

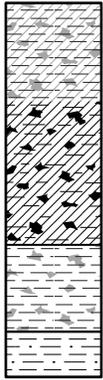
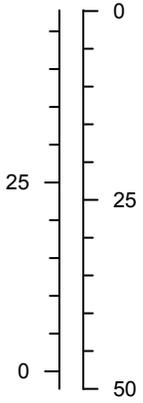
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 24.2" N LONGITUDE: 93° 30' 22.5" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/15/2008

WATER DEPTH: 6.5 cm ELEVATION: 48 cm

CORE LENGTH: 49.5 cm COMPACTION: n/a



0-32 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to sapric peat and muddy peat, with root pieces up to 2 mm x 3 cm long

- gradational contact -

32-43.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with a few degraded root fragments and disseminated pale brown (5YR 5/2) silty to sandy lenses becoming more common down-core

- gradational contact -

43.5-49.5 cm: CLAY, medium dark-gray (N3) and pale brown (5YR 5/2) mottled silty clay, with very fine-grained sandy lenses

SBI-18P



CORE ID: 08-SB1-18v

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 24.2" N LONGITUDE: 93° 30' 22.5" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 2/2/2009

WATER DEPTH: 6.5 cm ELEVATION: 48 cm

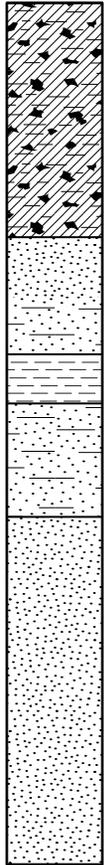
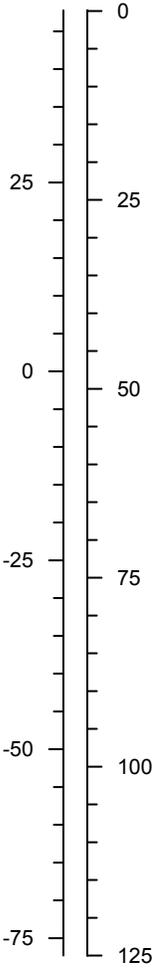
CORE LENGTH: 114 cm COMPACTION: 2.5 cm

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS



0-31 cm: PEAT, brownish-black (5YR 2/1) saturated fibric to hemic muddy peat and peat, with root pieces up to 5 mm x 8 cm long from 0-19 cm and silty to sandy lenses from 19-31 cm

- sharp contact -

31-46.5 cm: SAND, yellowish-gray (5Y 7/2) sand with pale brown (5YR 5/2) organic-poor muddy lenses from 31-39 cm grades into interbedded sand and muddy sand from 39-46.5 cm, with disseminated grayish-brown (5YR 3/2) organic clasts and a few degraded root fragments

- gradational contact -

46.5-68 cm: MUD and SAND, grayish-brown (5YR 3/2) organic-poor mud with sandy lenses from 46.5-53 cm grades into dark yellowish-brown (10YR 4/2) mottled muddy sand from 53-68 cm, with disseminated organic flecks and a few degraded root fragments

68-114 cm: SAND, light-gray (N7) and dark yellowish-orange (10YR 6/6) mottled clayey sand, with disseminated small, moderately indurated moderate brown (5YR 4/4) clay clasts and occasional dusky yellowish-brown (10YR 2/2) fibrous clasts and organic flecks

08-SBI-18v
114 cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-19p

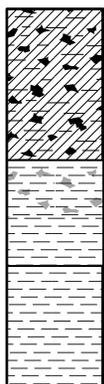
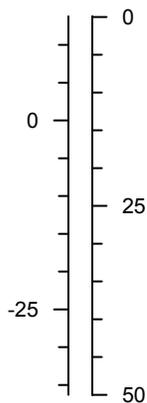
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 24.1" N LONGITUDE: 93° 30' 22.6" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/15/2008

WATER DEPTH: 24 cm ELEVATION: 14 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-20 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to fibric peat and muddy peat, with root pieces up to 5 mm x 20 cm long and vertical olive-gray (5Y 4/1) clay lenses from 0-10 cm

- sharp contact -

20-34 cm: MUD, olive-black (5Y2/1) massive organic-rich to organic-poor mud, with a few degraded root fragments becoming less common down-core and a very fine-grained sandy lens from 26-27.5 cm

- gradational contact -

34-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) organic-poor mud and mottled clay, with disseminated silty lenses

SBI-19P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-20p

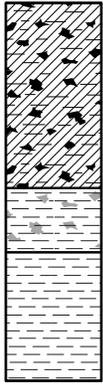
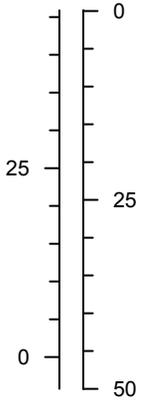
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 56' 23.2" N LONGITUDE: 93° 30' 5.9" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/15/2008

WATER DEPTH: -8 cm ELEVATION: 46 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-24.5 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to sapric peat, with root pieces up to 10 cm long from 13-24.5 cm

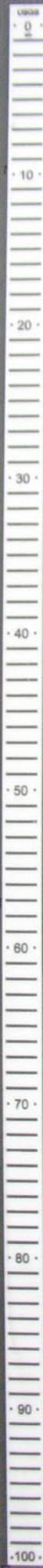
- gradational contact -

24.5-33 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with disseminated pale brown (5YR 5/2) silt lenses and a few root fragments from 24.5-28.5 cm

- gradational contact -

33-50 cm: CLAY, medium dark-gray (N4) organic-poor mud and mottled clay, with disseminated small pale brown (5YR 5/2) silt clasts

S61-20P



CORE ID: 08-SB1-20v

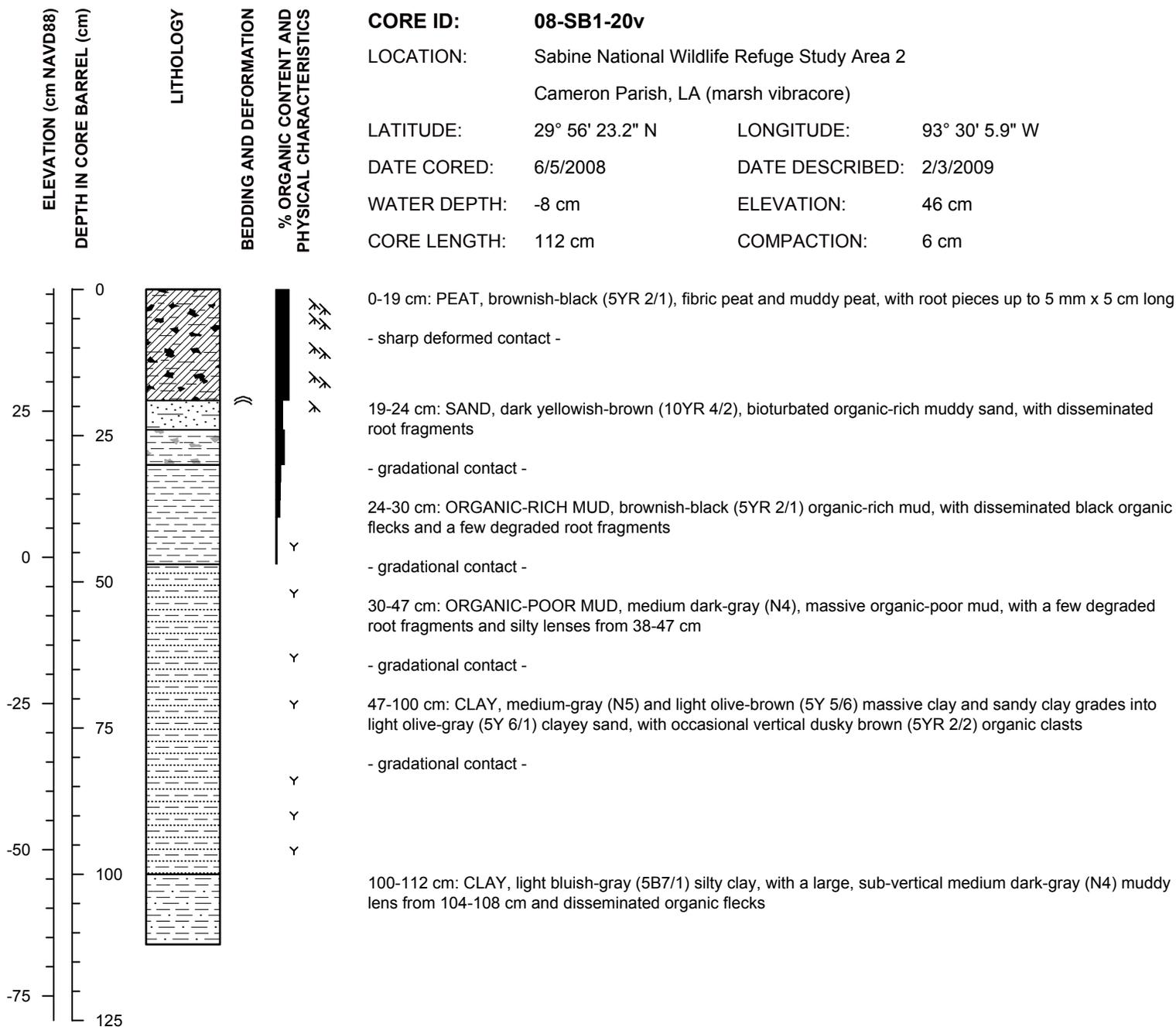
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 56' 23.2" N LONGITUDE: 93° 30' 5.9" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 2/3/2009

WATER DEPTH: -8 cm ELEVATION: 46 cm

CORE LENGTH: 112 cm COMPACTION: 6 cm



08-SB1-20v

112 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

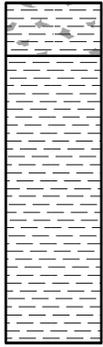
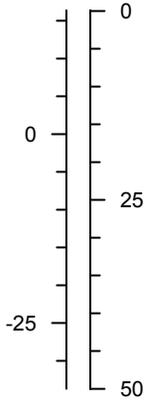
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-21p

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 56' 23.2" N LONGITUDE: 93° 30' 6.0" W
DATE CORED: 6/6/2008 DATE DESCRIBED: 7/17/2008
WATER DEPTH: 21.5 cm ELEVATION: 16 cm
CORE LENGTH: 45 cm COMPACTION: n/a



0-7 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with disseminated pale yellowish brown (10YR 6/2) silty clasts, a pale brown (5YR 2/2) clean clay lens from 3-4 cm, and root pieces up to 3 cm long from 5-7 cm

- gradational contact -

7-45 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled organic-poor mud and silty clay, with a few degraded root fragments from 7-14 cm and silty to very-fine grained sandy lenses from 7-11 and 16-20 cm

SBI-ZIP



CORE ID: 08-SB1-22p

LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 45.6" N LONGITUDE: 93° 27' 56.3" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/17/2008

WATER DEPTH: 39 cm ELEVATION: 2 cm

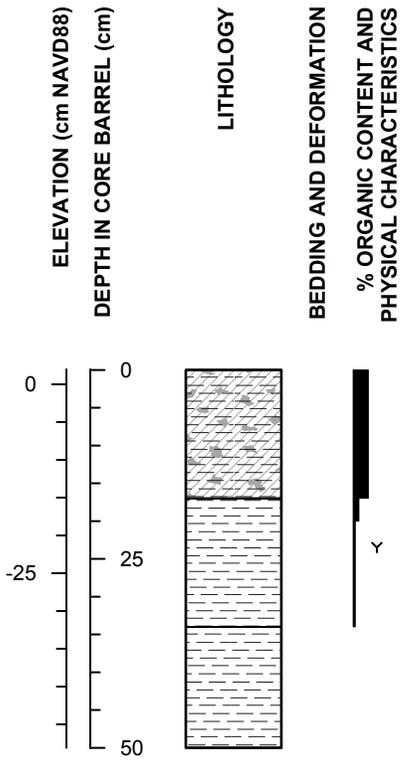
CORE LENGTH: 50 cm COMPACTION: n/a

0-17 cm: PEAT, dusky yellowish-brown (10YR 2/2) muddy sapric peat

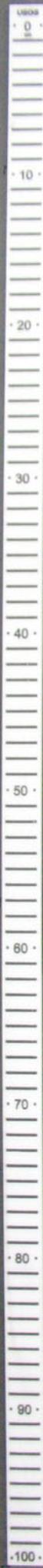
17-34 cm: CLAY, olive-black (5Y 2/1) massive organic-poor mud and clay, with small, pale brown (5YR 5/2) silty lenses

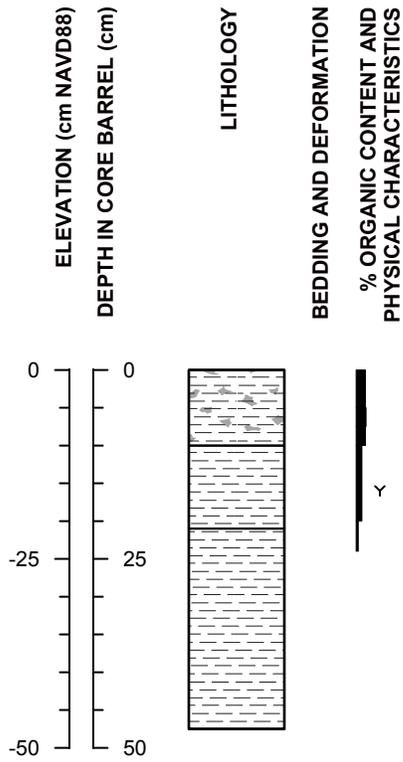
- gradational contact -

34-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled clay



S81-22P





CORE ID: 08-SB1-23p

LOCATION: Sabine National Wildlife Refuge Study Area 1
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 45.7" N **LONGITUDE:** 93° 27' 58.9" W
DATE CORED: 6/7/2008 **DATE DESCRIBED:** 7/21/2008
WATER DEPTH: 41 cm **ELEVATION:** 0 cm
CORE LENGTH: 47.5 cm **COMPACTION:** n/a

0-10 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with pale brown (5YR 5/2) silty clasts and light olive-gray (5Y 6/1) clean clay lenses

- gradational contact -

10-21 cm: CLAY, olive-black (5Y 2/1) to medium dark-gray (N4) organic-poor mud and clay, with pale brown (5YR 5/2) silty clasts and lenses

- gradational contact -

21-47.5 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) clay and mottled clay

SB1-23P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-24p

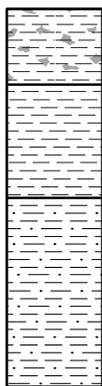
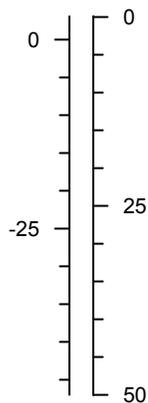
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 45.5" N LONGITUDE: 93° 28' 10.8" W

DATE CORED: 6/6/2008 DATE DESCRIBED: 7/21/2008

WATER DEPTH: 38 cm ELEVATION: 3 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-10 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) organic-rich mud, with silty lenses and a few disseminated root fragments becoming less common down-core

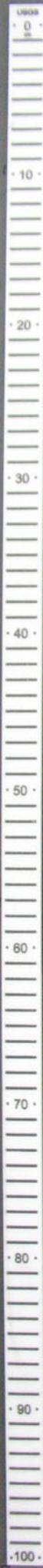
- gradational contact -

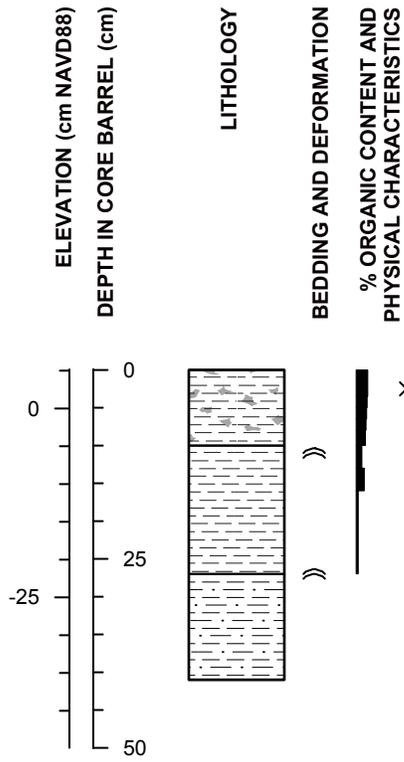
10-25 cm: CLAY, olive-black (5Y 2/1) organic-poor mud and clay, with pale brown (5YR 5/2) silty to very fine-grained sandy lenses from 13-25 cm and disseminated brownish black (5YR 2/1) muddy clasts

- gradational contact -

25-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled clay and silty clay, with small, pale brown (5YR 5/2) silty clasts becoming more common down-core

SBI-24P





CORE ID: 08-SB1-25p

LOCATION: Sabine National Wildlife Refuge Study Area 1
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 45.9" N **LONGITUDE:** 93° 28' 18.8" W
DATE CORED: 6/7/2008 **DATE DESCRIBED:** 7/22/2008
WATER DEPTH: 36 cm **ELEVATION:** 5 cm
CORE LENGTH: 41 cm **COMPACTION:** n/a

0-10 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) to medium dark-gray (N4) organic-rich mud is sandy from 0-3.5 cm, with a few disseminated root fragments and a thin (<2 mm) fine-grained sand layer at the top of the core

- gradational contact -

10-27 cm: CLAY, medium dark-gray (N4) organic-poor mud and clay, with small, pale brown (5YR 5/2) silty to very fine-grained sandy lenses from 10-16 cm

27-41 cm: CLAY, medium light-gray (N6) and dusky yellow (5YR 6/4) silty clay, with brownish gray (5YR 4/1) very fine-grained sandy lenses at base of core

PS2-19S



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-26p

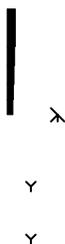
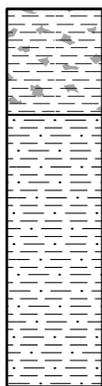
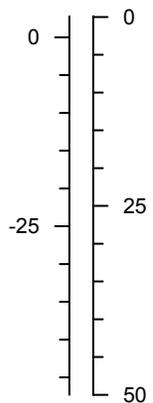
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 42.7" N LONGITUDE: 93° 28' 28.1" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/22/2008

WATER DEPTH: 38.5 cm ELEVATION: 3 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-14 cm: MUD, olive-black (5YR 2/1) massive organic-rich to organic-poor mud, with sandy lens from 0-2 cm and disseminated small pale brown (5YR 5/2) silty clasts

- gradational contact -

14-50 cm: CLAY, medium-gray (N5) and dusky yellow (5YR 6/4) mottled clay and silty clay

SBI-26P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-27p

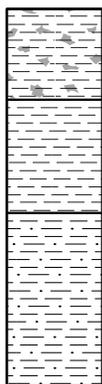
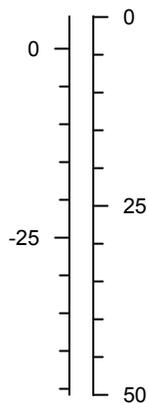
LOCATION: Sabine National Wildlife Refuge Study Area 1
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 40.1" N LONGITUDE: 93° 28' 31.6" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/22/2008

WATER DEPTH: 37 cm ELEVATION: 4 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-12 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) organic-rich mud, with root pieces up to 2 cm long

- gradational contact -

12-27 cm: CLAY, olive-black (5Y 2/1) organic-poor mud and clay, with small (1 cm) pale brown (5YR 2/2) silty clasts and lenses from 12-17 cm

- gradational contact -

27-50 cm: CLAY, medium-gray (N5) and dusky yellow(5YR 6/4) mottled clay and silty clay, with light olive-gray (5Y 6/1) very fine-grained sandy lenses from 27-36 cm

SBI-27P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-28p

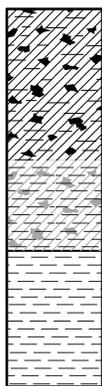
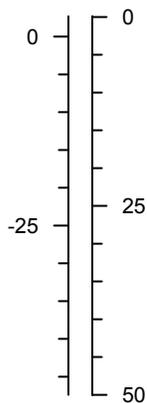
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 05.3" N LONGITUDE: 93° 30' 17.4" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/22/2008

WATER DEPTH: 36.5 cm ELEVATION: 3 cm

CORE LENGTH: 50 cm COMPACTION: n/a

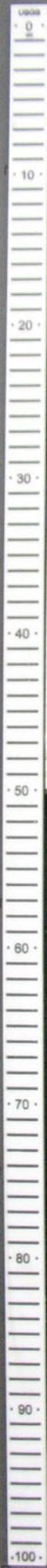


0-32 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat and muddy peat grades into organic-rich mud, with disseminated light-gray (N7) clay lenses, and small black (N1) or dusky yellow (5YR 6/4) organic clasts and silty lenses from 20-32 cm

- sharp deformed contact -

32-50 cm: CLAY, medium-gray (N5) and light olive-gray (5Y 6/1) mottled clay, with small dusky yellow (5YR 6/4) silty lenses and a few disseminated black organic clasts

SBI-Z&P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-29p

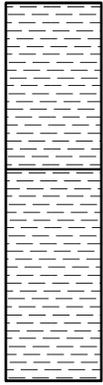
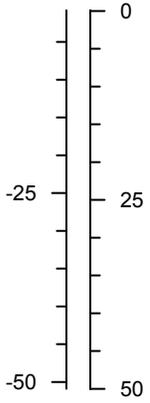
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 11.6" N LONGITUDE: 93° 30' 17.0" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/22/2008

WATER DEPTH: 40 cm ELEVATION: -1 cm

CORE LENGTH: 50 cm COMPACTION: n/a

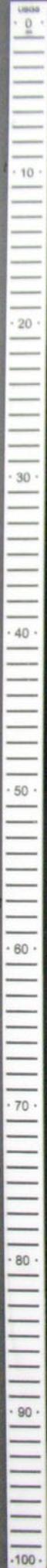


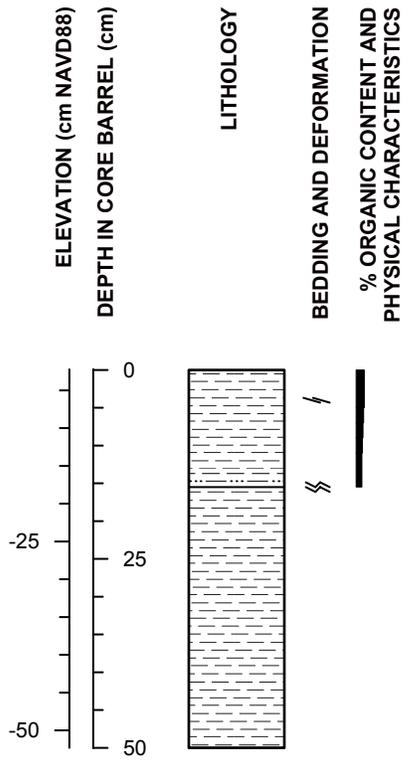
0-22 cm: CLAY, olive-black (5Y 2/1) organic-rich to organic-poor mud and dark-gray (N3) clay, with a few degraded root fragments and small black (N1) organic flecks, silty lenses at 2-3.5 and 13.5 cm, and medium light-gray (N6) clean clay clasts from 4-22 cm

- gradational contact -

22-50 cm: CLAY, medium-gray (N5) and dusky yellow (5YR 6/4) mottled clay, with disseminated dark-gray (N3) muddy clasts

SBI-29P





CORE ID: 08-SB1-30p

LOCATION: Sabine National Wildlife Refuge Study Area 2
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 18.1" N **LONGITUDE:** 93° 30' 17.2" W

DATE CORED: 6/7/2008 **DATE DESCRIBED:** 7/23/2008

WATER DEPTH: 41.5 cm **ELEVATION:** -2 cm

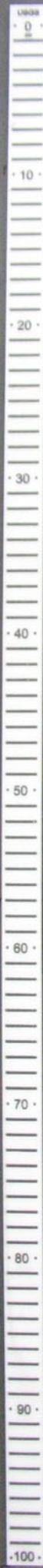
CORE LENGTH: 50 cm **COMPACTION:** n/a

0-15.5 cm: CLAY, olive-black (5Y 2/1) massive organic-poor mud and clay, with a thin (1 mm), inclined sandy horizon from 4-5 cm and pale yellowish-brown (10YR 6/2) silty to very fine-grained sandy lenses, sand content increases down-core, grading into oxidized sandy mud from 13-15.5 cm

- sharp contact -

15.5-50 cm: CLAY, medium dark-gray (N4) and duskyyellow (5Y 6/4) mottled clay, with very small pale yellowish-brown (10YR 6/2) silty clasts

SBI-30P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-31p

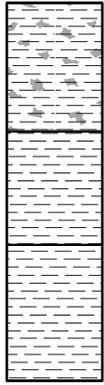
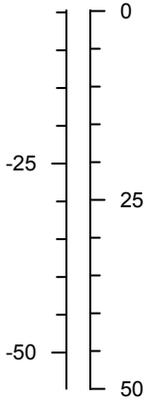
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 29.1" N LONGITUDE: 93° 30' 16.5" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/23/2008

WATER DEPTH: 44 cm ELEVATION: -5 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-17 cm: ORGANIC-RICH MUD, grayish-black (N2) organic-rich mud, with disseminated root fragments, silty to sandy lenses, and occasional small light olive-gray (5Y 6/1) clay lenses

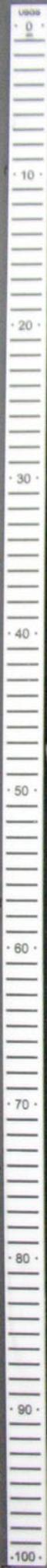
- gradational contact -

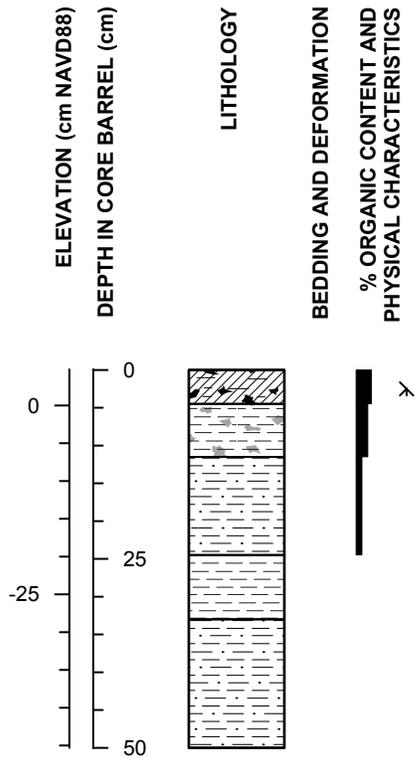
17-32 cm: CLAY, olive-gray (5Y 4/1) organic-poor mud and clay, with pale yellowish-brown (10YR 6/2) silty lenses and light olive-gray (5Y 6/1) clay lenses

- gradational contact -

32-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled clay, with small pale yellowish-brown (10YR 6/2) silty lenses

SBI-31P





CORE ID: 08-SB1-32p

LOCATION: Sabine National Wildlife Refuge Study Area 2
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 35.9" N **LONGITUDE:** 93° 30' 16.7" W

DATE CORED: 6/7/2008 **DATE DESCRIBED:** 7/23/2008

WATER DEPTH: 34.5 cm **ELEVATION:** 5 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

0-4.5 cm: PEAT, dusky yellowish-brown (10YR 2/2) sapric peat, with disseminated root fragments and sandy lens at top of core

- gradational contact -

4.5-11.5 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) organic-rich mud, with light olive-gray (5Y 6/1) clay lenses

- gradational contact -

11.5-24.5 cm: CLAY, olive-black (5Y 2/1) massive organic-poor silty to sandy mud and clay, with silty lens from 11.5-12 cm

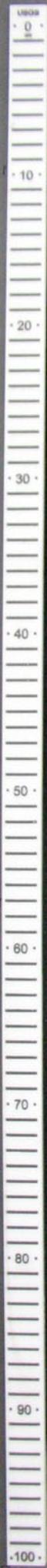
- gradational contact -

24.5-33 cm: CLAY, olive-black (5Y 2/1) to medium dark-gray (N4) massive clay, with pale yellowish-brown (10YR 6/2) silty lenses, silt content decreases down core

- gradational contact -

33-50 cm: CLAY, medium dark-gray (N4) and light olive-gray (5Y 6/1) mottled silty clay, with a few disseminated pale yellowish-brown (10YR 6/2) silty to very fine-grained sandy lenses

SBI-32P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

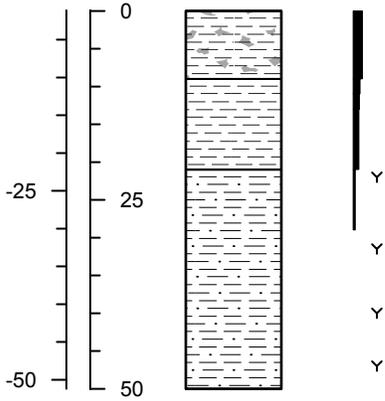
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-33p

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 39.4" N LONGITUDE: 93° 30' 16.8" W
DATE CORED: 6/7/2008 DATE DESCRIBED: 7/23/2008
WATER DEPTH: 40.5 cm ELEVATION: -1 cm
CORE LENGTH: 50 cm COMPACTION: n/a



0-9 cm: ORGANIC-RICH MUD, brownish-black (5YR2/1) massive organic-rich silty to sandy mud

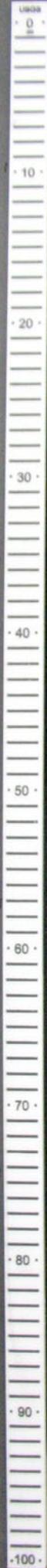
- gradational contact -

9-21 cm: CLAY, olive-black (5Y 2/1) to medium dark-gray (N4) massive organic-poor mud and clay, with a few disseminated silty lenses and occasional dark reddish-brown (10R 3/4) organic clasts

- gradational contact -

21-50 cm: CLAY, medium dark-gray (N4) to medium-gray (N5) silty clay, with disseminated pale yellowish-brown (10YR 6/2) silty to sandy clasts and lenses and occasional small (<1 cm) brownish-black (5YR 2/1) organic clasts and flecks

SBI-33P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-34p

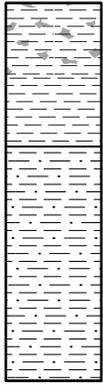
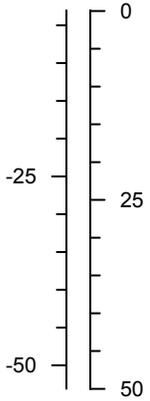
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 24.5" N LONGITUDE: 93° 30' 19.9" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/23/2008

WATER DEPTH: 42.5 cm ELEVATION: -3 cm

CORE LENGTH: 50 cm COMPACTION: n/a

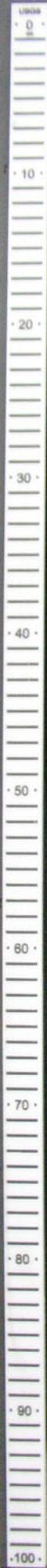


0-19 cm: MUD, brownish-black (5YR 2/1) organic-rich mud from 0-9.5 cm grades into olive-black (5Y 2/1) organic-poor mud and light olive-gray (5Y 6/1) clay, with a few degraded root fragments and disseminated small pale yellowish-brown (10YR 6/2) silty to very fine-grained sandy lenses from 0-13.5 cm

- gradational contact -

19-50 cm: CLAY, medium-gray (N5) and dusky yellow (10Y 6/4) mottled silty clay, with disseminated clean olive-gray (5Y 4/1) clay and pale yellowish-brown (10YR 6/2) silty clasts

SBI-34P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

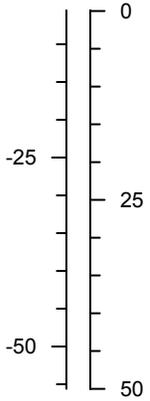
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-35p

LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 24.8" N LONGITUDE: 93° 30' 17.0" W
DATE CORED: 6/7/2008 DATE DESCRIBED: 7/24/2008
WATER DEPTH: 45 cm ELEVATION: -6 cm
CORE LENGTH: 50 cm COMPACTION: n/a



0-8.5 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) organic-rich sandy mud, with a few degraded root fragments and moderate yellowish-brown(10YR 5/4) silty to very fine-grained sandy lenses from 4-5.5 cm

- gradational contact -

8.5-19.0 cm: MUD, grayish-black (5Y 2/1) massive organic-poor mud, with disseminated pale yellowish-brown (10YR 6/2) silty clasts and a sandy lens at 13 cm

- gradational contact -

19-27 cm: CLAY, medium dark-gray (N4) organic-poor mud and clay, with small pale yellowish-brown (10YR 2/2) silty to sandy lenses and a clean, light olive-gray (5Y 6/1) clay lens from 20-25 cm

27-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled clay, with small pale yellowish-brown (10YR 2/2) silty to sandy lenses

SBI-35P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB1-36p

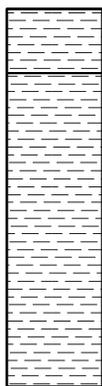
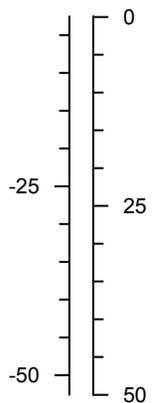
LOCATION: Sabine National Wildlife Refuge Study Area 2
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 24.7" N LONGITUDE: 93° 30' 12.0" W

DATE CORED: 6/7/2008 DATE DESCRIBED: 7/24/2008

WATER DEPTH: 42 cm ELEVATION: -3 cm

CORE LENGTH: 50 cm COMPACTION: n/a



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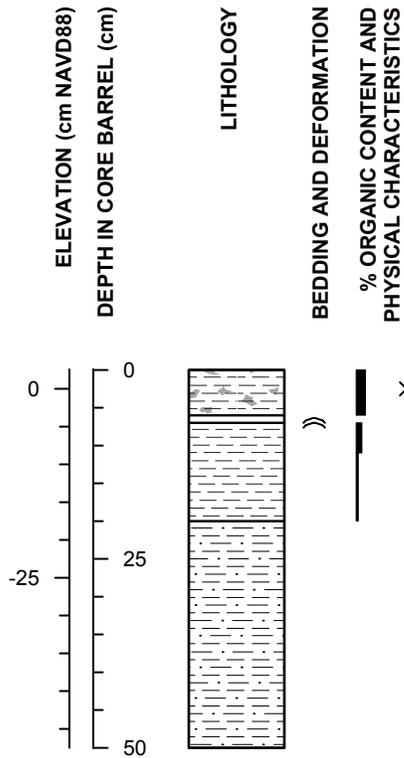
0-8.5 cm: CLAY, olive-black (5Y 2/1) massive organic-poor mud and clay

- gradational contact -

8.5-50 cm: CLAY, medium dark-gray (N4) and dusky yellow (5Y 6/4) mottled clay, with a few disseminated silty lenses

SBI-36P





CORE ID: 08-SB1-37p

LOCATION: Sabine National Wildlife Refuge Study Area 2
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 56' 24.6" N **LONGITUDE:** 93° 30' 9.0" W

DATE CORED: 6/7/2008 **DATE DESCRIBED:** 7/24/2008

WATER DEPTH: 37 cm **ELEVATION:** 2 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

0-6 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) organic-rich mud, with a few degraded root fragments

- sharp deformed contact -

6-7 cm: SILT, pale yellowish-brown (10YR 6/2) silt and very fine-grained sand

- sharp deformed contact -

7-20 cm: CLAY, olive-black (5Y 2/1) massive organic-poor mud and clay, with pale yellowish-brown (10YR 6/2) silty lenses most common from 7-11 cm and a few degraded root fragments

- gradational contact -

20-50 cm: CLAY, medium dark-gray (N4) mottled silty clay, with disseminated olive-black (5Y 2/1) organic clasts and small pale yellowish-brown (10YR 6/2) silty lenses

SBI-37P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-01p

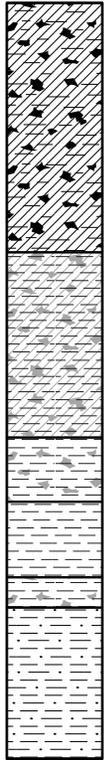
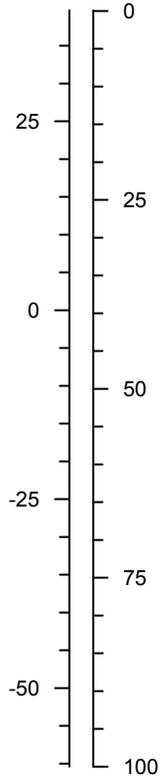
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 57' 30.2" N LONGITUDE: 93° 39' 40.4" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 7/28/2008

WATER DEPTH: 10 cm ELEVATION: 40 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-33 cm: PEAT, brownish-black (5YR 2/1) fibric to hemic peat, with root pieces up to 2 mm x 6 cm long

33-57.5 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat and muddy peat, with disseminated root fragments, small light olive-gray (5Y 6/1) clay lenses, and sandy lenses from 52-53 and 55-57 cm

- gradational contact -

57.5-66 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with small light olive-gray (5Y 6/1) clay lenses, a few degraded root fragments, and a sandy lens at 64 cm

- sharp deformed contact -

66-76 cm: CLAY, light olive-gray (5Y 6/1) clean, massive clay, with a few small olive-black (5Y 2/1) organic-rich muddy clasts

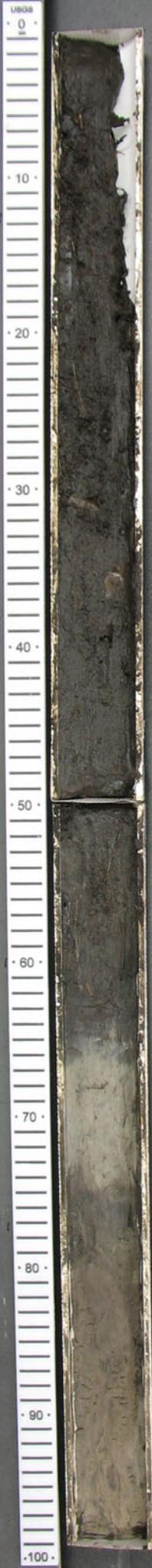
- sharp deformed contact -

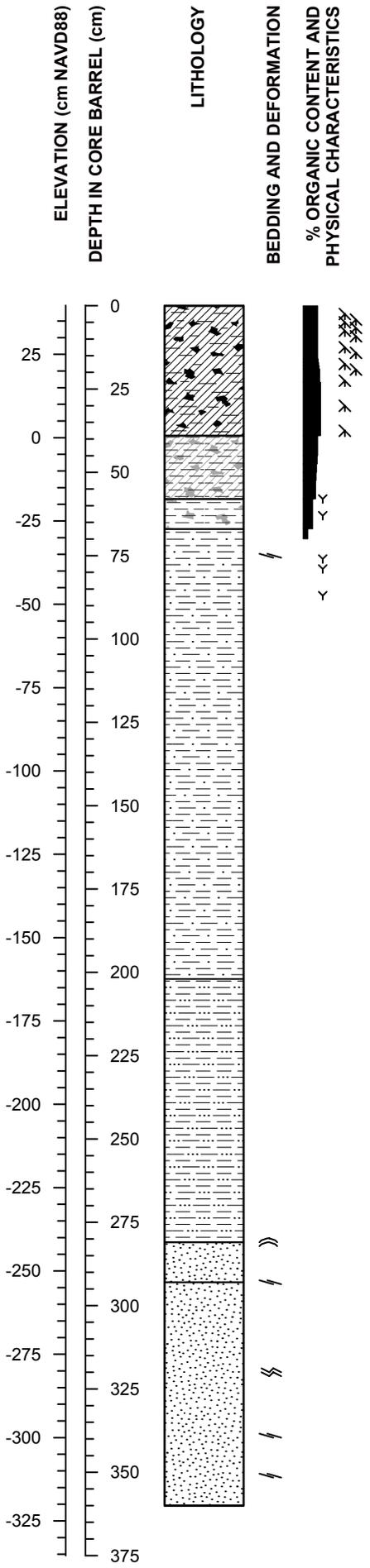
76-80 cm: ORGANIC-RICH MUD, olive black (5Y 2/1) to dark yellowish-brown (10YR 4/2) organic-rich mud, with a thin (1 mm) sandy horizon at 79 cm

- gradational contact -

80-100 cm: CLAY, dark yellowish-brown (10YR 4/2) organic-poor mud and silty clay

SB5-01P





CORE ID: 08-SB5-01v

LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 57' 30.2" N LONGITUDE: 93° 39' 40.4" W
DATE CORED: 6/8/2008 DATE DESCRIBED: 7/8/2008
WATER DEPTH: 10 cm ELEVATION: 40 cm
CORE LENGTH: 360 cm COMPACTION: 0 cm

0-39 cm: PEAT, brownish-black (5YR 2/1) fibric peat and muddy peat is saturated from 0-16 cm, with root pieces up to 2 mm x 5 cm long

39-58 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat and muddy peat, with visible root fragments becoming less common down-core, a few small light olive-gray (5Y 6/1) clay lenses, and a silty lens at 56 cm

- gradational contact -

58-67 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with disseminated small light olive-gray (5Y 6/1) clay clasts

- sharp contact -

67-202 cm: CLAY, dark yellowish-brown (10YR 4/2), dark yellowish-orange (10YR 6/6) and moderate reddish-brown (10YR 4/6) mottled organic-poor mud, clay, and silty clay, with a few disseminated organic clasts, olive-black (5Y 2/1) organic-rich muddy lenses from 75-80 and 93-96 cm, and vertical root casts most common from 100-120 cm

- gradational contact -

202-281 cm: CLAY, pale brown (5YR 5/2), dark yellowish-orange (10YR 6/6), light olive-gray (5Y 6/1), and dusky yellow (5Y 6/4) mottled very fine- to fine-grained sandy clay, with disseminated dark yellowish-brown (10YR 4/2) organic clasts

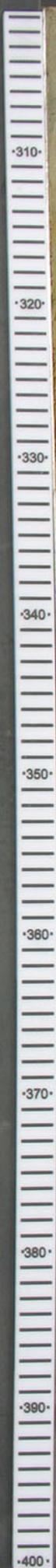
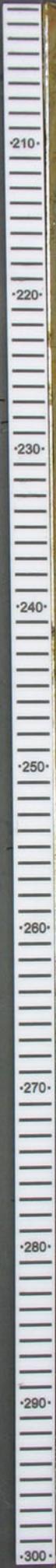
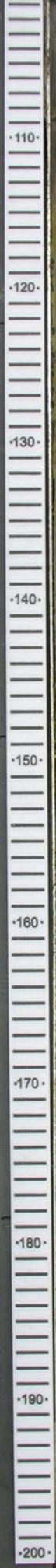
- sharp deformed contact -

281-293 cm: SAND, yellowish-gray (5Y 8/1) massive, well-sorted very fine-grained sand

- sharp contact -

293-360 cm: SAND, yellowish-gray (5Y 8/1), pale brown (5YR 5/2), dark yellowish-orange (10YR 6/6), and dusky yellow (5Y 6/4) well-sorted fine-grained sand, with inclined to convoluted laminations

07-SBS-01V



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-02p

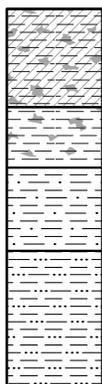
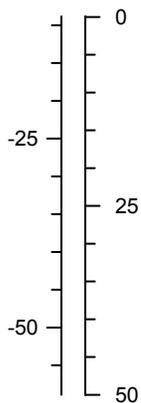
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 57' 30.3" N LONGITUDE: 93° 39' 40.4" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/8/2008

WATER DEPTH: 58.5 cm ELEVATION: -9 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-13 cm: PEAT and ORGANIC-RICH MUD, brownish-black (5YR 2/1) muddy peat and organic-rich mud, with disseminated root fragments and sandy lenses from 5-6 and 10.5-12 cm

- gradational contact -

13-21 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) massive organic-rich mud, with degraded root fragments and small, pale brown (5Y 5/2) silty to sandy clasts

- sharp deformed contact -

21-32 cm: CLAY, light olive-gray (5Y 6/1) massive silty clay, with disseminated olive-black (5Y 2/1) organic flecks and a few degraded root fragments

- gradational contact -

32-50 cm: SILT and CLAY, olive-gray (5Y 4/1) and brownish-gray (5YR 4/1), mottled silt and silty clay, with silty to sandy clasts and lenses, silt content increases down-core

SB5-0ZP



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-03p

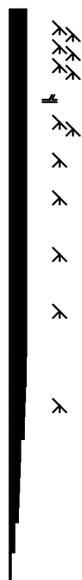
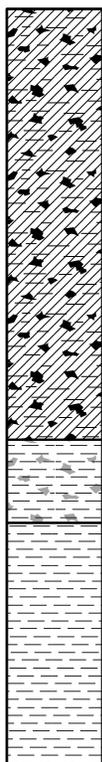
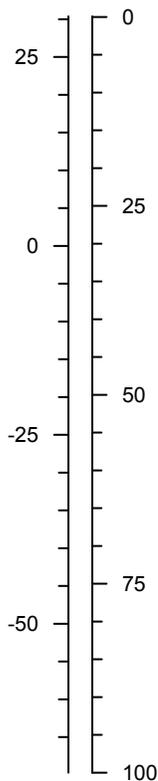
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 57' 31.9" N LONGITUDE: 93° 39' 15.7" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/8/2008

WATER DEPTH: 19 cm ELEVATION: 30 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-57 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat, with visible root pieces up to 2 mm x 6 cm long becoming less common down-core and a silty lens at 57 cm

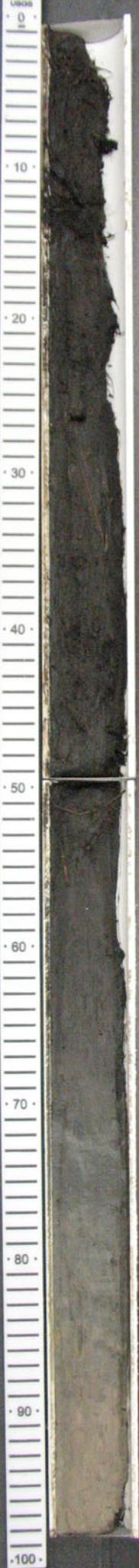
- gradational contact -

57-68 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with a few degraded root fragments

- gradational contact -

68-100 cm: CLAY, olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) organic-poor mud and mottled clay, with occasional small dusky yellow (10YR 6/4) clay lenses

SB5-03P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

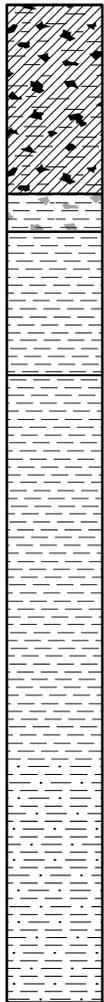
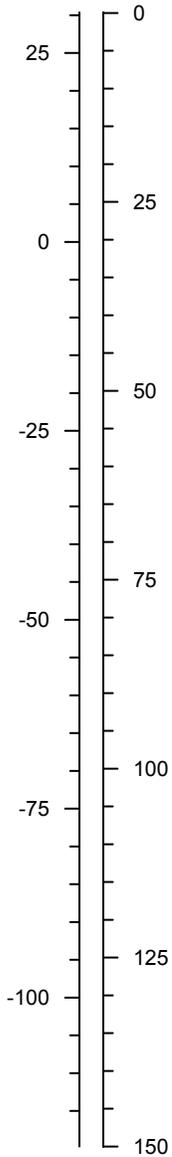
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-03v

LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 57' 31.9" N LONGITUDE: 93° 39' 15.7" W
DATE CORED: 6/8/2008 DATE DESCRIBED: 2/4/2009
WATER DEPTH: 19 cm ELEVATION: 30 cm
CORE LENGTH: 132 cm COMPACTION: 22.5 cm



0-25 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 2 mm x 5 cm long most common from 0-10 cm

- sharp contact -

25-30 cm: ORGANIC-RICH MUD: olive-black (5Y 2/1) massive organic-rich mud, with disseminated brownish-black (5YR 2/1) peaty clasts

- gradational contact -

30-49 cm: MUD, medium dark-gray (N4) and medium light-gray (N6) mottled organic-rich to organic-poor mud, with a few disseminated organic clasts

- gradational contact -

49-132 cm: CLAY, light olive-gray (5Y 6/1), medium-gray (N5), and dark yellowish orange (10YR 6/6) indurated mottled clay becomes silty to sandy from 100-132 cm, with organic clasts and flecks most common from 82-87 and 93-106 cm and disseminated moderate brown (5YR 4/4) clay clasts

08-SBS-03
132 cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-04p

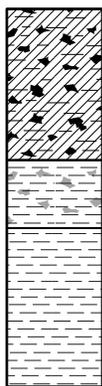
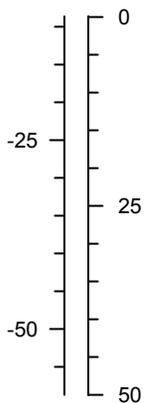
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 57' 31.8" N LONGITUDE: 93° 39' 15.9" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/8/2008

WATER DEPTH: 58 cm ELEVATION: -9 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-20 cm: PEAT, brownish-black (5YR2/1) fibric to sapric peat and muddy peat, with root pieces up to 5 mm x 6 cm long and shell fragments from 15-17 cm

- gradational contact -

20-29 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) to medium dark-gray (N4) massive organic-rich to organic-poor mud, with a few degraded root fragments

- gradational contact -

29-50 cm: CLAY, medium-gray (N5) and light olive-gray (5Y 6/1) mottled clay, with occasional olive-black (5Y 2/1) organic flecks

SB5-04P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-05p

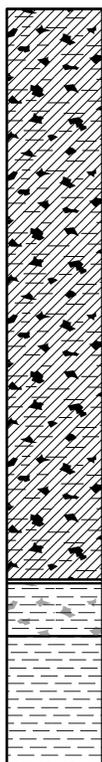
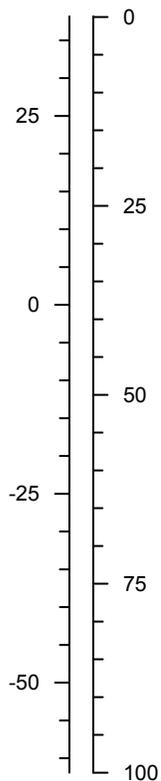
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 57' 31.7" N LONGITUDE: 93° 39' 08.7" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/8/2008

WATER DEPTH: 11 cm ELEVATION: 38 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-75.5 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 3 mm x 10 cm long

- sharp contact -

75.5-76 cm: SILT, pale yellowish-brown (10YR 6/2) silt to very fine-grained sand

- sharp contact -

76-83 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) massive organic-rich mud, with a few degraded root fragments

- gradational contact -

83-100 cm: CLAY, medium dark-gray (N4) mottled organic-poor mud and clay, with organic-rich clasts becoming less common down-core

SB5-05P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-05v

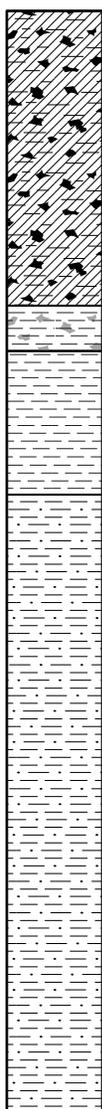
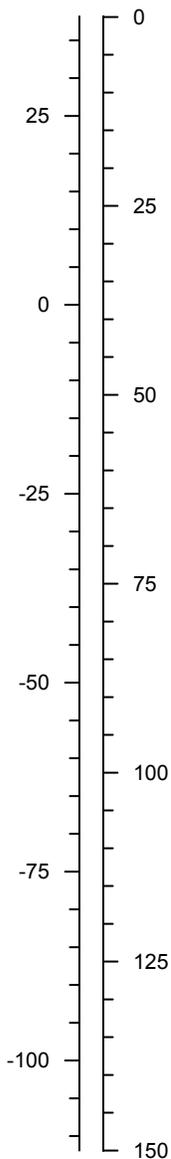
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 57' 31.7" N LONGITUDE: 93° 39' 8.7" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 2/4/2009

WATER DEPTH: 11 cm ELEVATION: 38 cm

CORE LENGTH: 145.5 cm COMPACTION: 45 cm



0-39 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 2 mm x 7 cm long from 0-18 cm

- sharp contact -

39-45 cm: ORGANIC-RICH MUD, dusky yellowish-brown (10YR 2/2) organic-rich mud, with disseminated peaty clasts and degraded root fragments

- gradational contact -

45-64 cm: CLAY, dark-gray (N3) to medium-gray (N5) massive, bioturbated organic-poor mud and clay, with a few disseminated olive-black (5Y 2/1) organic clasts and flecks

- sharp contact -

64-145.5 cm: CLAY, pale yellowish-brown (10YR 6/2) and dark yellowish-orange (10YR 6/6) mottled sandy clay, with vertical moderate brown (5YR 3/4) and dusky brown (5YR 2/2) root casts from 80-100 cm and disseminated organic clasts and flecks

08-SB5-05v
145.5cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-06p

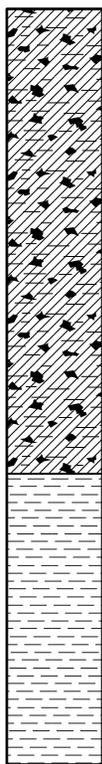
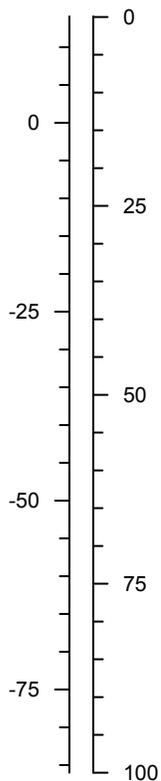
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 57' 31.8" N LONGITUDE: 93° 39' 08.9" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/9/2008

WATER DEPTH: 35 cm ELEVATION: 14 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-61.5 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat and muddy peat, with visible root pieces up to 2 mm x 3 cm long becoming less common down-core

- sharp inclined contact -

61.5-100 cm: CLAY, medium dark-gray (N4) massive organic-poor mud and clay, with pale yellowish-brown (10YR 6/2) silty lenses from 72-100 cm becoming more common down-core, a light olive-gray (5Y 6/1) clay lens from 78-81 cm, and disseminated olive-black (5Y 2/1) organic clasts

SB5-06P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-07p

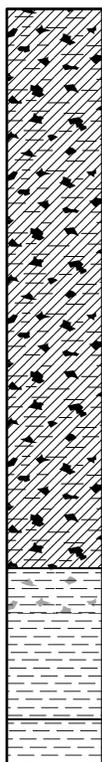
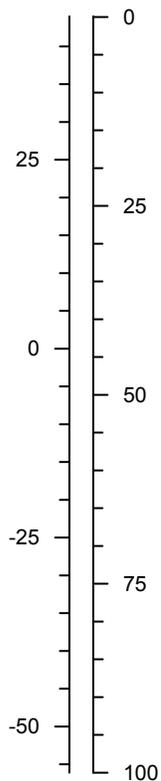
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh-interior push core)

LATITUDE: 29° 57' 31.5" N LONGITUDE: 93° 39' 8.6" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/9/2008

WATER DEPTH: 5 cm ELEVATION: 44 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-74 cm: PEAT, brownish-black (5YR2/1) fibric to sapric peat and muddy peat, with long (>10 cm) root pieces most common from 0-50 cm

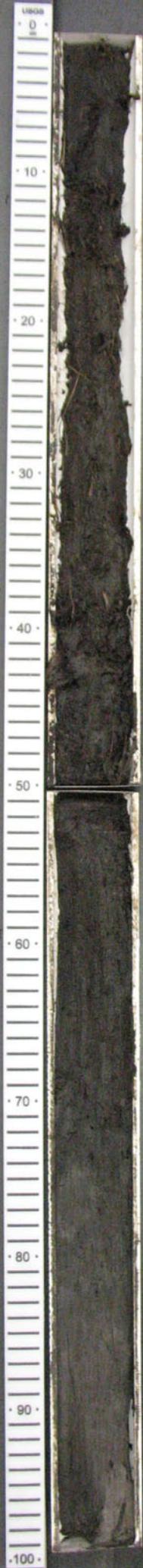
- gradational contact -

74-94 cm: MUD, olive-black (5Y 2/1) massive organic-rich to organic-poor mud and clay, with degraded root fragments from 74-80 cm

- gradational contact -

94-100 cm: CLAY, medium-gray (N5) massive clay and grayish-black (5Y 2/1) sapric peat

SB5-07P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-08p

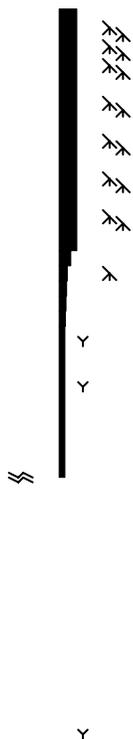
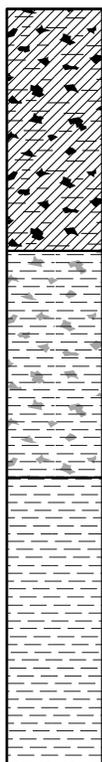
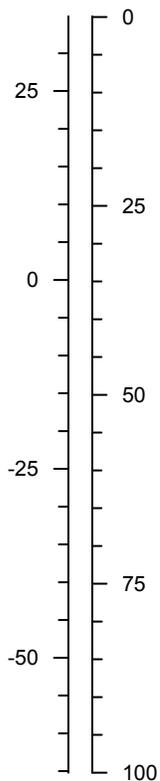
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 57' 12.0" N LONGITUDE: 93° 39' 26.0" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/15/2008

WATER DEPTH: 14 cm ELEVATION: 35 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-32 cm: PEAT, brownish-black (5YR 2/1) fibric to hemic peat, with root pieces up to 3 mm x 7 cm long from 0-28 cm

- gradational contact -

32-62 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with a few disseminated root fragments and peaty clasts becoming less common down-core

- sharp contact -

62-100 cm: CLAY, medium-gray (N5), medium dark-gray (N4), and dark yellowish-orange (10YR 6/6) mottled clay, with a few disseminated organic flecks

SB5-08P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

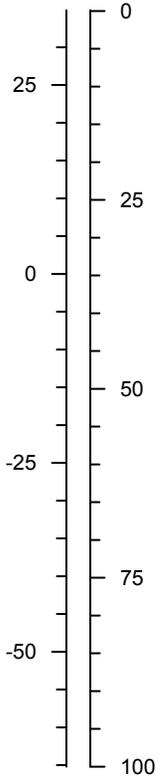
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-08v

LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 57' 12.0" N LONGITUDE: 93° 39' 26.0" W
DATE CORED: 6/8/2008 DATE DESCRIBED: 2/5/2009
WATER DEPTH: 14 cm ELEVATION: 35 cm
CORE LENGTH: 76 cm COMPACTION: 17 cm



0-18 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric to hemic peat and muddy peat, with visible root pieces up to 2 mm x 5 cm long becoming less common down-core

- sharp contact -

18-34 cm: ORGANIC-RICH MUD, brownish-black (5YR 2/1) muddy peat and organic-rich mud, with degraded root fragments and peaty clasts from 18-23 cm

- gradational contact -

34-40 cm: ORGANIC-POOR MUD, medium dark-gray (N4) massive organic-poor mud, with small, light-gray (N7) clean clay lenses

- sharp deformed contact -

40-76 cm: CLAY, medium light-gray (N6) and dark yellowish-orange (10YR 6/6) mottled silty to sandy clay, with occasional small olive-black (5Y 2/1) organic-rich clasts and degraded root casts

08-SB5-08

76 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION
% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-09p

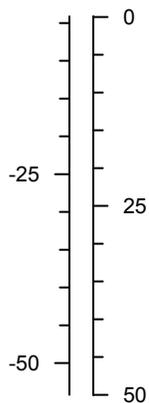
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 57' 12.0" N LONGITUDE: 93° 39' 25.9" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/15/2008

WATER DEPTH: 53 cm ELEVATION: -4 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-7 cm: UNRECOVERED, no recovery of uppermost fluid sediments

7-28.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with a light-gray (N7) clay lens from 13.5-16 cm and a few degraded root fragments

- sharp contact -

28.5-50 cm: CLAY, medium-gray (N5) and dark yellowish-orange (10YR 6/6) mottled organic-poor mud and clay, with occasional olive-black (5Y 2/1) organic flecks

SB5-09P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-10p

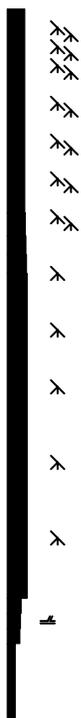
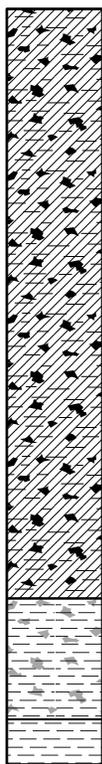
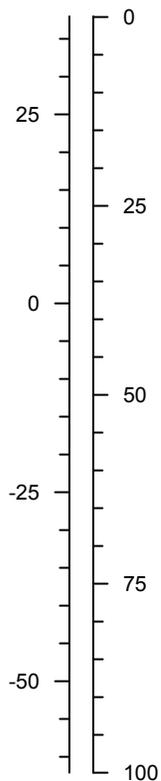
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 57' 39.2" N LONGITUDE: 93° 39' 35.1" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/15/2008

WATER DEPTH: 11 cm ELEVATION: 38 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-78 cm: PEAT, brownish-black (5YR2/1) fibric to sapric peat and muddy peat, with root pieces up to 3 mm x 3 cm long from 0-27 cm, visible root pieces become less common down-core, poor recovery of fluid sediments from 0-27 cm

- gradational contact -

78-94 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty clasts most common from 78-84 cm and disseminated pale yellowish-brown (10YR 6/2) silty lenses

- gradational contact -

94-100 cm: CLAY, medium light-gray (N6) and medium dark-gray (N4) mottled organic-poor mud and clay, with a few disseminated olive-black (5Y 2/1) organic flecks

SB5-10P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-10v

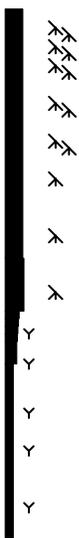
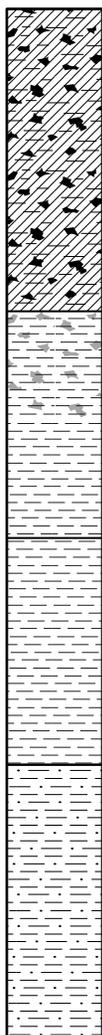
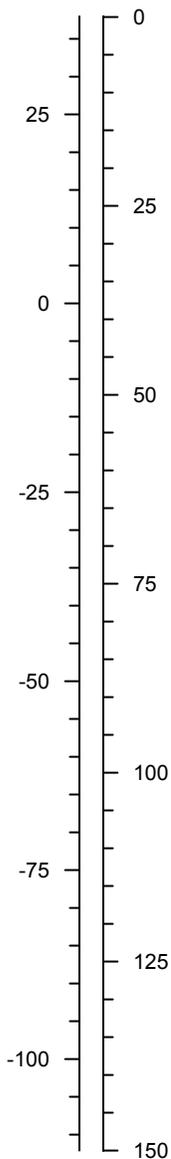
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 57' 39.2" N LONGITUDE: 93° 39' 35.1" W

DATE CORED: 6/5/2008 DATE DESCRIBED: 2/5/2009

WATER DEPTH: 11 cm ELEVATION: 38 cm

CORE LENGTH: 136 cm COMPACTION: 24 cm



0-40 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 3 mm x 9 cm long from 0-21 cm

- sharp contact -

40-70 cm: MUD, olive-black (5Y 2/1) organic-rich to organic-poor mud, with brownish-black (5YR 2/1) peaty clasts most common from 40-47 cm and clean, light olive-gray (5Y 6/1) clay lenses from 54-64 cm

- sharp contact -

70-100 cm: CLAY, interbedded light-gray (N7) clay and medium dark-gray (N4) to dark-gray (N3) organic-poor mud and clay, with slightly deformed bedding and disseminated brownish-black (5YR 2/1) organic clasts and flecks

- gradational contact -

100-136 cm: CLAY, dark yellowish-brown (10YR 4/2) to pale yellowish-brown (10YR 6/2) and light olive-brown (5Y 5/6) mottled silty clay, with a few disseminated organic flecks and disseminated indurated clay clasts

08-SB5-10v
136 cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



SB5-11P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-12p

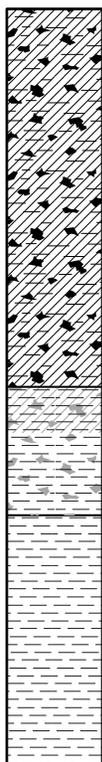
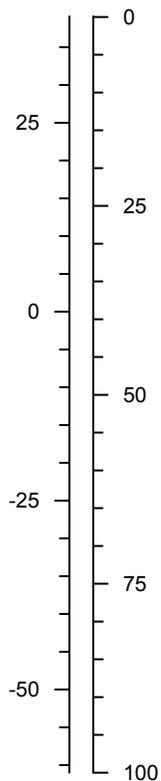
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 57' 53.4" N LONGITUDE: 93° 39' 36.8" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/17/2008

WATER DEPTH: 10 cm ELEVATION: 39 cm

CORE LENGTH: 100 cm COMPACTION: n/a



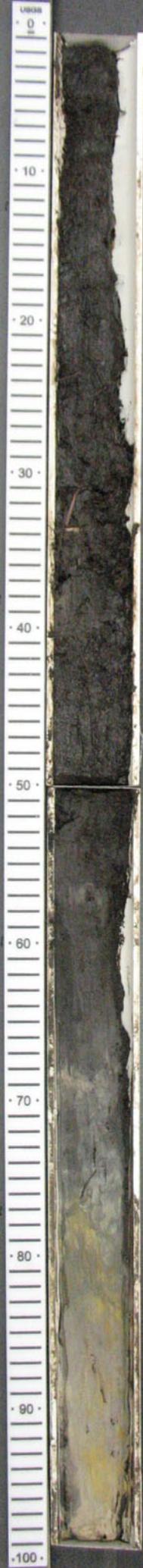
0-50 cm: PEAT, brownish-black (5YR 2/1) saturated fibric to sapric peat, with root pieces up to 2 mm x 3 cm long from 0-38 cm, visible root fragments become less common down-core

50-67 cm: PEAT and ORGANIC-RICH MUD, olive-black (5Y 2/1) muddy sapric peat from 50-56 cm grades into massive organic-rich mud, with a few degraded root fragments and a medium light-gray (N6) clay lens with embedded woody fragment from 56-58 cm

- sharp deformed contact -

67-100 cm: CLAY, light olive-gray (5Y 6/1), medium-gray (N4), and dark yellowish-orange (10YR 6/6) mottled clay, with occasional olive-black (5Y 2/1) organic flecks, and degraded root fragments up to 3 cm long from 72-77 and 85-94 cm

SB5-12P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

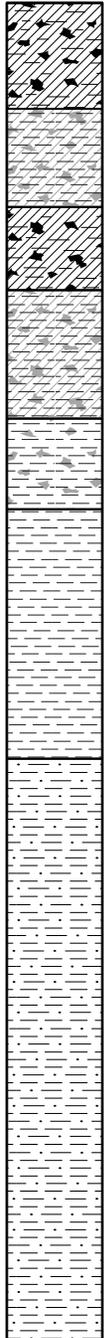
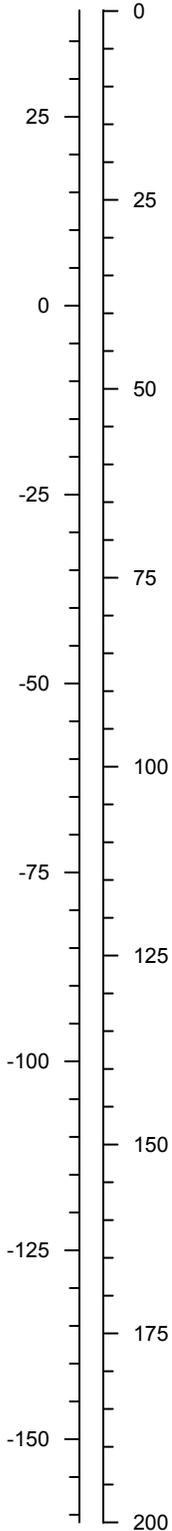
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-12v

LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 57' 53.4" N LONGITUDE: 93° 39' 36.8" W
DATE CORED: 6/5/2008 DATE DESCRIBED: 2/6/2009
WATER DEPTH: 10 cm ELEVATION: 39 cm
CORE LENGTH: 177 cm COMPACTION: 4 cm



0-14 cm: PEAT, dusky yellowish-brown (10YR 2/2) saturated fibric peat, with root pieces up to 3 mm x 7 cm long

14-27 cm: PEAT, dusky yellowish-brown (10YR 2/2) muddy fibric to hemic peat

27-38 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric peat, with root pieces up to 2 mm x 3 cm long

38-55 cm: PEAT, dusky yellowish-brown (10YR 2/2) hemic to sapric peat and muddy peat, with a thin, vertical organic-rich muddy lens along core wall from 31-55 cm

- gradational contact -

55-67 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with a few degraded root fragments and disseminated small, medium light-gray (N6) clay lenses and brownish-black (5YR 2/1) organic flecks

- sharp deformed contact -

67-100 cm: CLAY, light olive-gray (5Y 6/1), medium-gray (N5), and dark yellowish-orange (10YR 6/6), saturated mottled organic-poor mud and clay, with disseminated black organic flecks

- gradational contact -

100-177 cm: CLAY, pale yellowish-brown (10YR 6/2) and dark yellowish-orange (10YR 6/6) mottled silty clay, with disseminated vertical root casts and occasional moderately indurated clay clasts within dark yellowish-orange clay lenses

08-585-12 v
177cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-13p

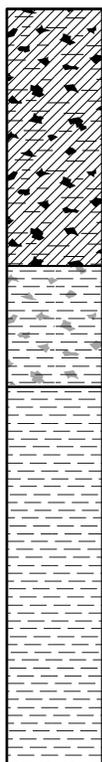
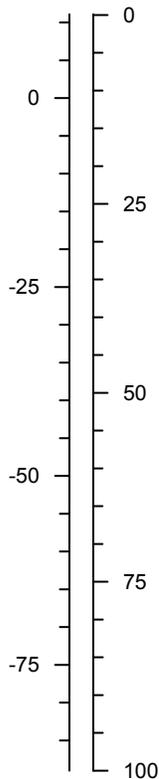
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 57' 53.3" N LONGITUDE: 93° 39' 36.8" W

DATE CORED: 6/8/2008 DATE DESCRIBED: 9/17/2008

WATER DEPTH: 38 cm ELEVATION: 11 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-34 cm: PEAT, brownish-black (5Y 2/1) hemic to sapric peat, with root pieces up to 2 mm x 2 cm long from 0-15 cm, visible root fragments become less common down-core

- gradational contact -

34-50 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud

- sharp contact -

50-100 cm: CLAY, light olive-gray (5Y 6/1) and olive-black (5Y 2/1) mottled clay, with clean, dark yellowish-orange (10YR 6/6) clay lenses from 55-61 cm, unit is vertically split from 61-97 cm

SB5-13P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-14p

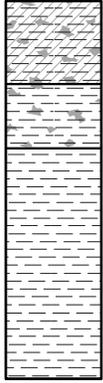
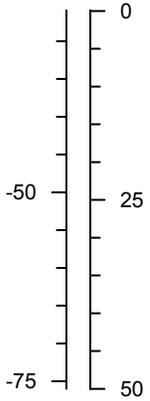
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 31.2" N LONGITUDE: 93° 39' 37.4" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/17/2008

WATER DEPTH: 74 cm ELEVATION: -26 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-11 cm: PEAT and ORGANIC-RICH MUD, olive-black (5Y 2/1) muddy peat and organic-rich mud, with degraded root fragments most common from 0-5 cm

- gradational contact -

11-19.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with disseminated light olive-gray (5Y 6/2) clay lenses

- gradational contact -

19.5-50 cm: CLAY, light olive-gray (5Y 6/1) and medium dark-gray (N4) organic-poor mud and mottled clay, with disseminated olive-black (5Y 2/1) organic flecks

SB5-14P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-15p

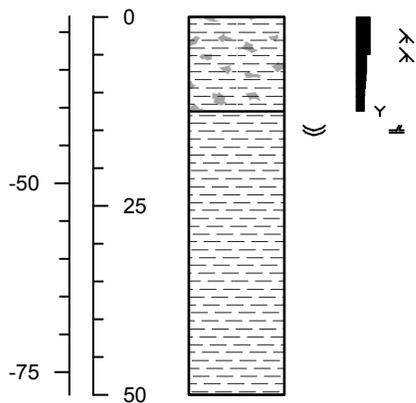
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 30.7" N LONGITUDE: 93° 39' 30.0" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/17/2008

WATER DEPTH: 76 cm ELEVATION: -28 cm

CORE LENGTH: 50 cm COMPACTION: n/a

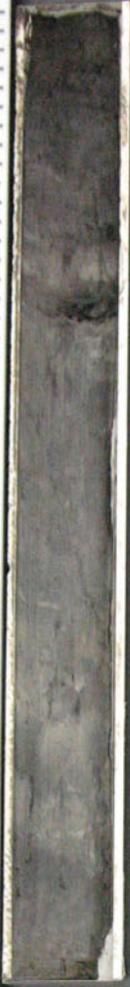


0-12.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty clasts and a few degraded root fragments from 0-5 cm

- gradational contact -

12.5-50 cm: CLAY, medium dark-gray (N4) and light olive-gray (5Y 6/1) mottled clay, with disseminated olive-black (5Y 2/1) organic flecks and a fibrous root mass from 15-17 cm

SBS-15P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-16p

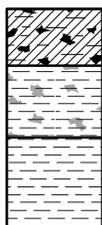
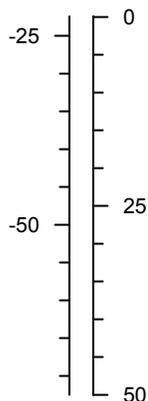
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 31.6" N LONGITUDE: 93° 39' 24.3" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/19/2008

WATER DEPTH: 70.5 cm ELEVATION: -23 cm

CORE LENGTH: 29 cm COMPACTION: n/a



0-7.5 cm: PEAT, olive-black (5Y 2/1) hemic peat and muddy peat, with root pieces up to 1 mm x 3 cm long, poor recovery of fluid sediments

- sharp contact -

7.5-17 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with sandy lens from 7.5-8 cm and disseminated small pale yellowish-brown (10YR 6/2) silty to sandy clasts and lenses

- gradational contact -

17-29 cm: CLAY, medium dark-gray (N4) and light olive-gray (5Y 6/1) mottled clay, with silty to sandy lenses from 20-26 cm and disseminated pale yellowish-brown (10YR 6/2) silty clasts

S85-16P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-17p

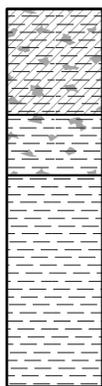
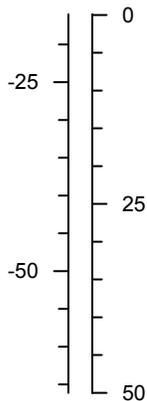
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 32.0 N LONGITUDE: 93° 39' 19.8" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/19/2008

WATER DEPTH: 64 cm ELEVATION: -16 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-14 cm: PEAT and ORGANIC-RICH MUD, olive-black (5Y 2/1) muddy sapric peat and organic-rich mud, with a few disseminated small pale yellowish-brown (10YR 6/2) silty clasts from 5-14 cm

- gradational contact -

14-22 cm: MUD, medium dark-gray (N4) massive organic-rich to organic-poor mud, with light olive-gray (5Y 6/1) clay lenses

- sharp deformed contact -

22-50 cm: CLAY, medium dark-gray (N4), light olive-gray (5Y 6/1), and olive-gray (5Y 4/1) organic-poor mud and mottled clay, with disseminated olive-black (5Y 2/1) organic flecks

S85-17P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-18p

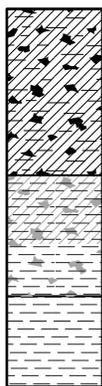
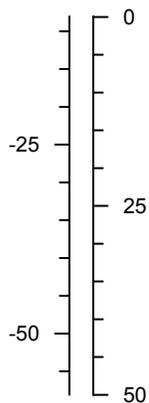
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 33.0" N LONGITUDE: 93° 39' 10.9" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/1/2008

WATER DEPTH: 56 cm ELEVATION: -8 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-22 cm: PEAT, olive-black (5Y 2/1) fibric to hemic peat and saturated muddy peat, with thin (1 mm) silty to sandy lenses from 19-22 cm, poor recovery of fluid sediments from 0-12 cm

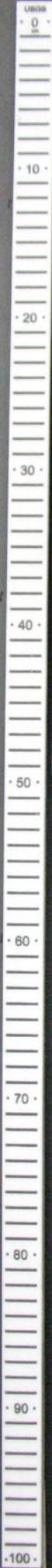
- gradational contact -

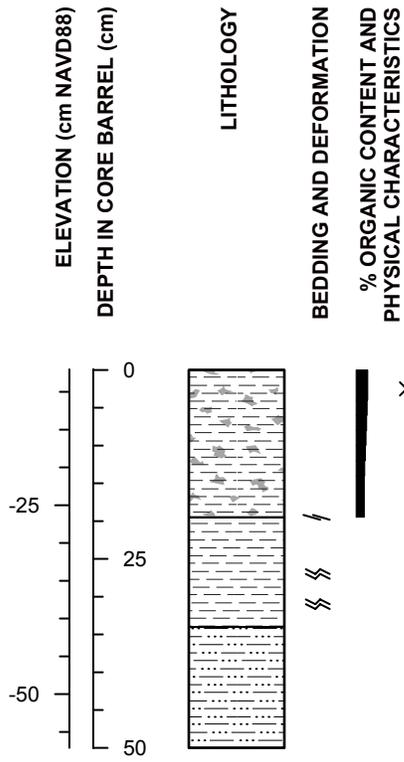
22-38 cm: PEAT and ORGANIC-RICH MUD, olive-black (5Y 2/1) massive muddy peat and organic-rich mud, with peaty clasts and degraded root fragments from 22-31 cm, occasional small pale yellowish-brown (10YR 6/2) silty clasts, and clean, light olive-gray (5Y 6/1) clay lenses becoming more common down-core

- gradational contact -

38-50 cm: CLAY, olive-black (5Y 2/1) to medium dark-gray (N4) massive organic-poor mud and clay, with light olive-gray (5Y 6/1) clay lenses, disseminated black organic flecks, and a clean, medium-gray (N5) clay lens from 46.5-49.5 cm

SB5-18P





CORE ID: 08-SB5-19p

LOCATION: Sabine National Wildlife Refuge Study Area 3
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 47.8" N **LONGITUDE:** 93° 39' 36.2" W

DATE CORED: 6/9/2008 **DATE DESCRIBED:** 9/19/2008

WATER DEPTH: 55 cm **ELEVATION:** -7 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

0-19.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with a few degraded root fragments from 0-4 cm and disseminated small pale yellowish-brown (10YR 6/2) silty clasts and lenses

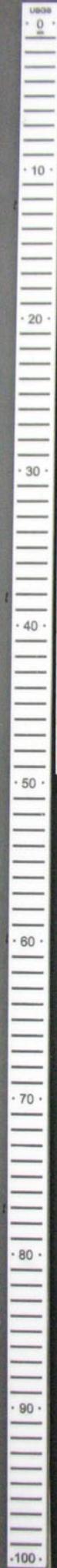
- sharp deformed contact -

19.5-34 cm: CLAY, interbedded light olive-gray (5Y 6/1), medium light-gray (N6), and medium-gray (N4) organic-poor mud and clay, with deformed bedding, a dark yellowish-orange (10YR 6/6) clay lens from 31-34 cm, and a few disseminated olive-black (5Y 2/1) organic flecks

- sharp deformed contact -

34-50 cm: SILT, pale yellowish-brown (10YR 6/2) mottled silt, with disseminated small dark yellowish-orange (10YR 6/6) clay lenses

SB5-19P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-20p

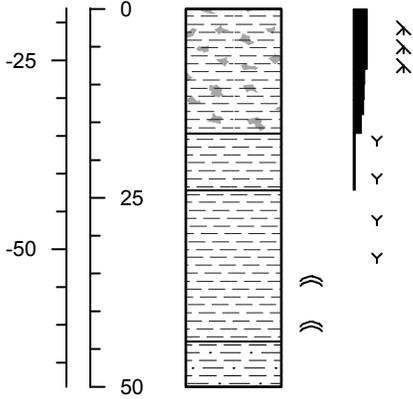
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 35.5" N LONGITUDE: 93° 39' 32.5" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/19/2008

WATER DEPTH: 66 cm ELEVATION: -18 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-16.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty clasts and degraded root fragments most common from 0-8 cm and disseminated pale yellowish-brown (10YR 6/2) silty clasts

- gradational contact -

16.5-24 cm: CLAY, olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) mottled organic-poor mud and clay, with a few disseminated olive-black (N1) organic clasts

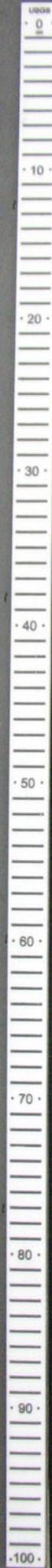
- gradational contact -

24-44 cm: CLAY, light olive-gray (5Y 6/1), dark yellowish-orange (10YR 6/6), and olive-gray (5Y 4/1) mottled clay, with occasional olive-black (5Y 2/1) organic flecks

- gradational contact -

44-50 cm: CLAY, dark yellowish-brown (10YR 4/2) massive silty clay, with pale yellowish-brown (10YR 6/2) silty clasts

S85-20P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-21p

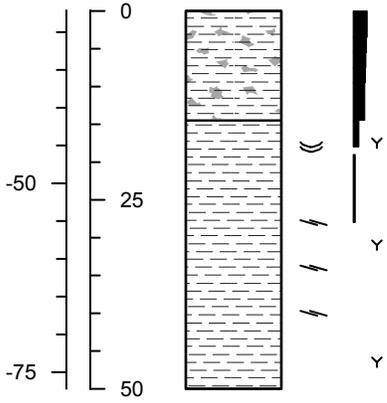
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 27.0" N LONGITUDE: 93° 39' 29.0" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/22/2008

WATER DEPTH: 75 cm ELEVATION: -27 cm

CORE LENGTH: 50 cm COMPACTION: n/a



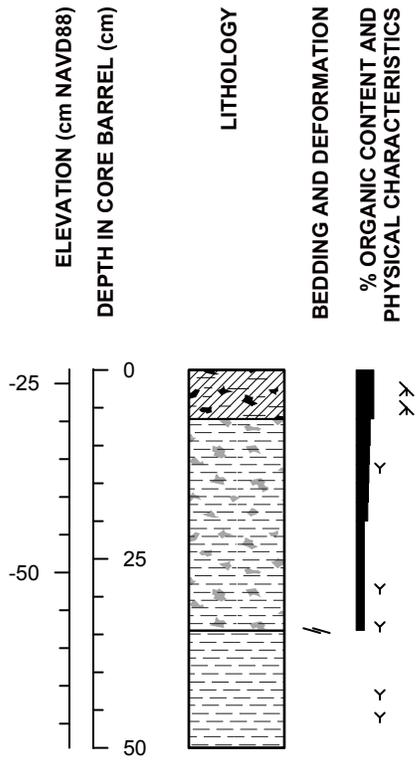
0-14.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty texture from 0-3.5 cm and a few disseminated root fragments and peaty clasts

- sharp contact -

14.5-50 cm: CLAY, interbedded medium dark-gray (N4) and light olive-gray (5Y 6/1) organic-poor mud and clay, with a vertical olive-gray (5Y 4/1) clay lens from 32-37 cm

SB5-21P





CORE ID: 08-SB5-22p

LOCATION: Sabine National Wildlife Refuge Study Area 3
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 22.2" N **LONGITUDE:** 93° 39' 27.1" W

DATE CORED: 6/9/2008 **DATE DESCRIBED:** 9/22/2008

WATER DEPTH: 71 cm **ELEVATION:** -23 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

0-6.5 cm: PEAT, olive-black (5Y 2/1) sapric peat, with disseminated root fragments

- gradational contact -

6.5-34.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with disseminated black organic clasts and a few degraded root fragments becoming less common down-core

- sharp contact -

34.5-50 cm: CLAY, pale yellowish-brown (10YR 6/2) and olive-black (5Y 2/1) clay, with a few disseminated black (N1) organic clasts and flecks

S85-22P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-23p

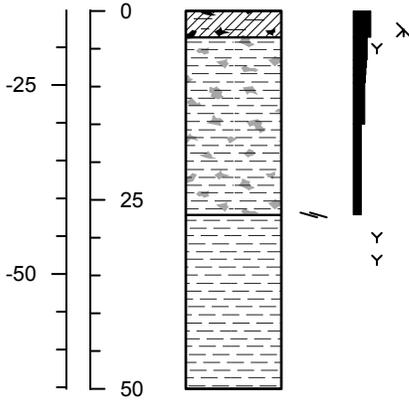
LOCATION: Sabine National Wildlife Refuge Study Area 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 57' 15.4" N LONGITUDE: 93° 39' 24.7" W

DATE CORED: 6/9/2008 DATE DESCRIBED: 9/22/2008

WATER DEPTH: 63 cm ELEVATION: -15 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-3.5 cm: PEAT, olive-black (5Y 2/1) sapric peat, with a few degraded root fibers

- gradational contact -

3.5-27 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with peaty clasts most common from 3.5-6.5 cm and pale yellowish-brown (10YR 6/2) clean clay lenses from 15-27 cm

- sharp inclined contact -

27-50 cm: CLAY, pale yellowish-brown (10YR 6/2) and medium dark-gray (N4) mottled clay, with dark yellowish-orange (10YR 6/6) clay lenses from 42.5-48.5 cm

SB5-23P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-24p

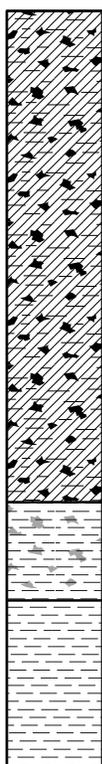
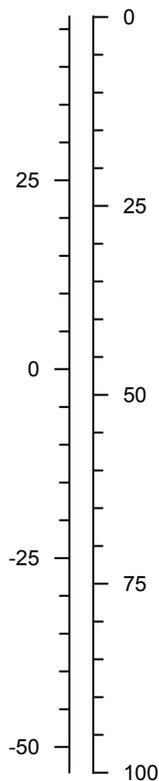
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 50.9" N LONGITUDE: 93° 41' 44.8" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 9/22/2008

WATER DEPTH: 0.5 cm ELEVATION: 47 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-65 cm: PEAT, brownish-black (5YR2/1) fibric to sapric peat and muddy peat, with thin roots up to 40 cm long from 0-52 cm

- gradational contact -

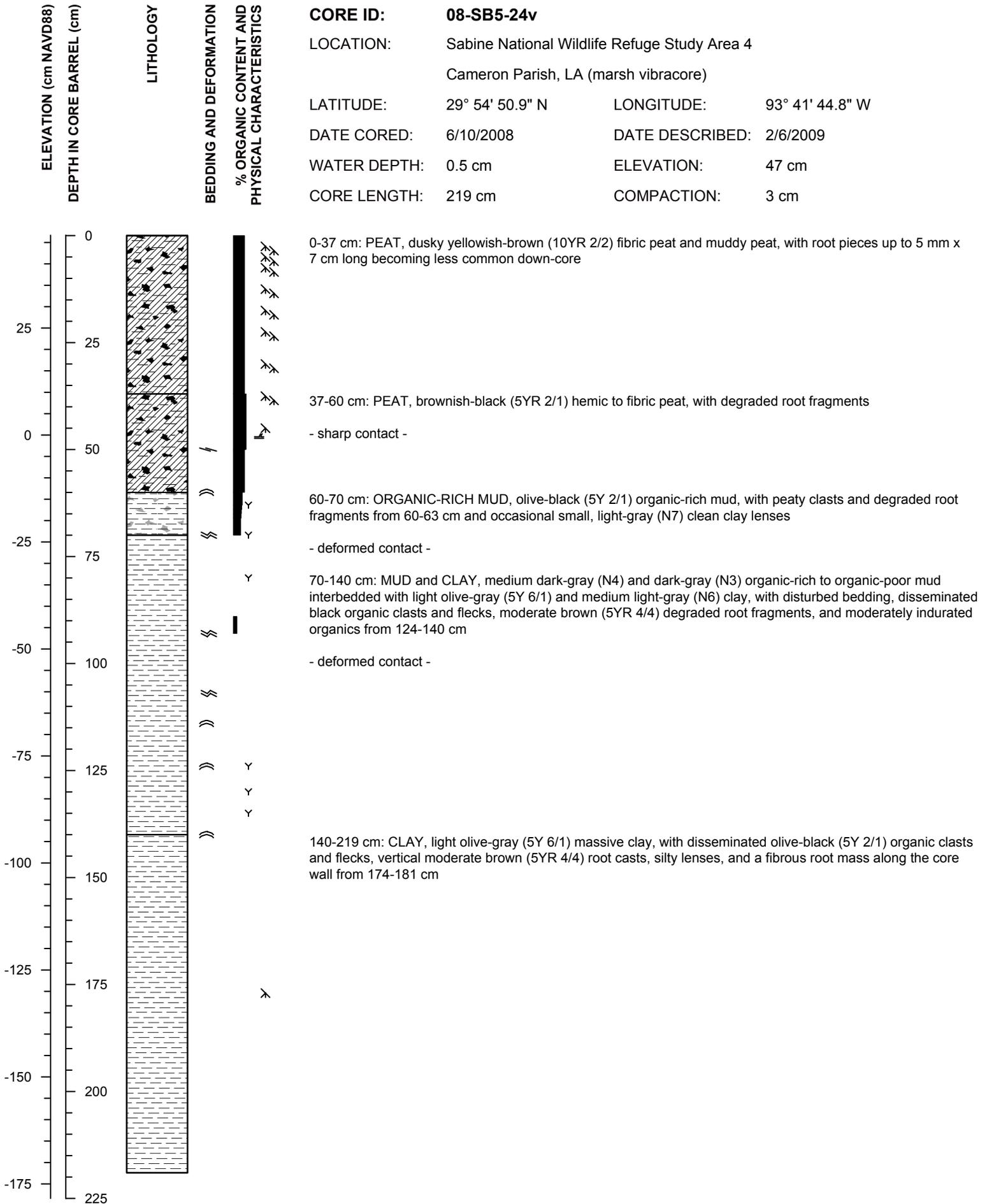
65-78 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty texture and a few degraded root fragments from 65-70 cm

- sharp contact -

78-100 cm: CLAY, interbedded medium dark-gray (N4) and pale yellowish-brown (10YR 6/2) organic-poor mud and clay, with slightly deformed bedding and disseminated olive-black (5Y 2/1) organic flecks

SB5-24P



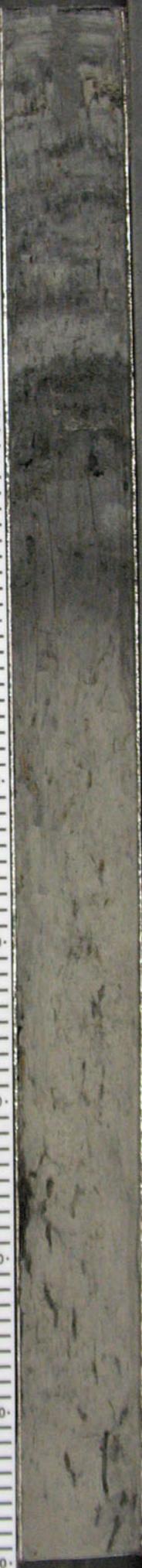


08-SB5-24v
219 cm

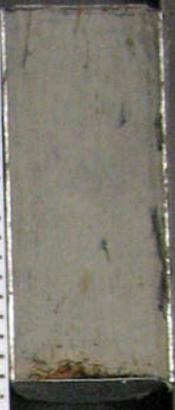
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ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-25p

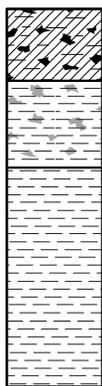
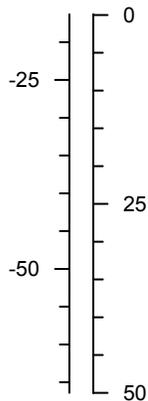
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 50.7" N LONGITUDE: 93° 41' 41.7" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 9/22/2008

WATER DEPTH: 63.5 cm ELEVATION: -16 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-9.5 cm: PEAT, brownish-black (5YR 2/1) sapric peat

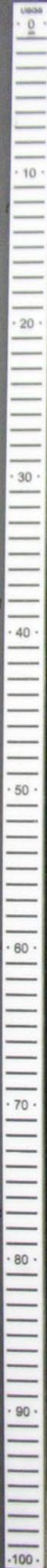
- gradational contact -

9.5-21 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with disseminated small, light olive-gray (5Y 6/1) clean clay lenses and black organic clasts

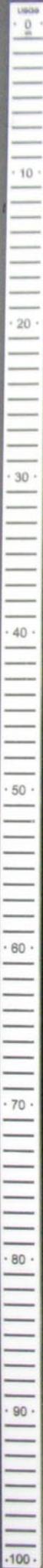
- gradational contact -

21-50 cm: CLAY, interbedded light olive-gray (5Y 6/1), medium dark-gray (N4), and dark-gray (N3) organic-poor mud and clay, with slightly deformed bedding, degraded pale yellowish-brown (10YR 6/2) root fragments and root casts from 40-48 cm, and disseminated olive-black (5Y 2/1) and pale yellowish-brown (10YR 6/2) organic flecks

SBS-25P



SB5-Z6P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

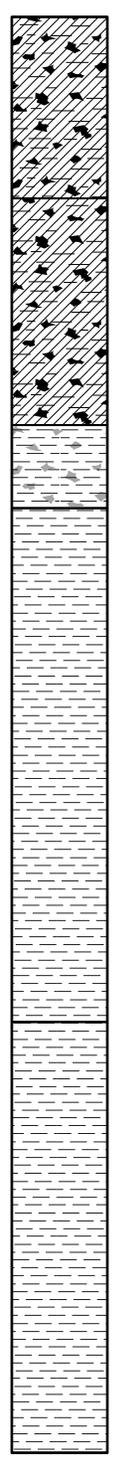
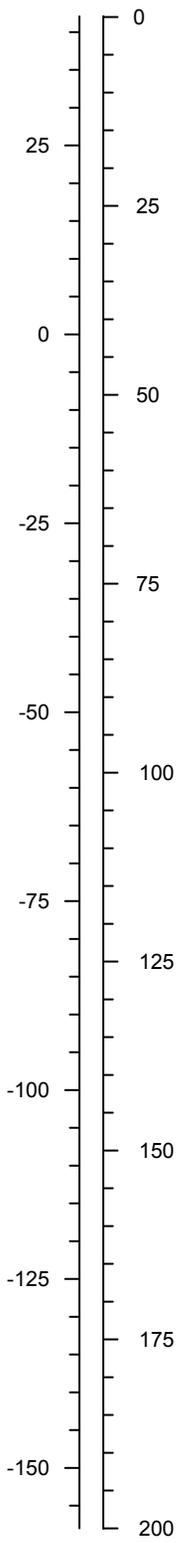
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-26v

LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 54' 47.6" N LONGITUDE: 93° 41' 24.0" W
DATE CORED: 6/10/2008 DATE DESCRIBED: 2/9/2009
WATER DEPTH: 5 cm ELEVATION: 42 cm
CORE LENGTH: 190 cm COMPACTION: 0.5 cm



0-24 cm: PEAT: dusky yellowish-brown (10YR 2/2) fibric peat and muddy peat, with root pieces up to 5 mm x 5 cm long

24-54 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) hemic to sapric peat, visible root fragments become less common down-core

- gradational contact -

54-65 cm: ORGANIC-RICH MUD, olive-black (5YR 2/1) organic-rich mud, with disseminated black peaty clasts

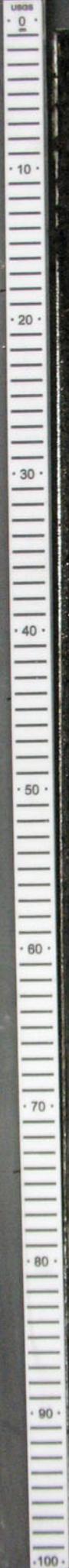
- sharp contact -

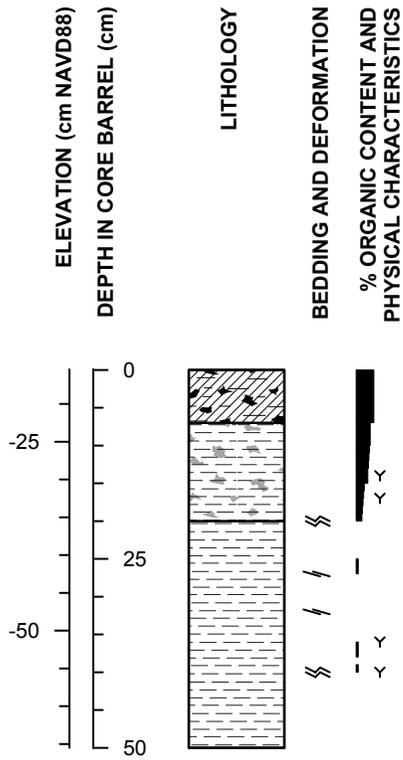
65-133 cm: MUD and CLAY, olive-black (5Y 2/1) and dark-gray (N3) organic-rich to organic-poor mud interbedded with light olive-gray (5Y 6/1) and medium light-gray (N6) clay, with slightly deformed bedding

- sharp contact -

133-190 cm: CLAY, light olive-gray (5Y 6/1) and dark yellowish-orange (10YR 6/6) massive mottled clay, with a few vertical root casts and disseminated moderate brown (5YR 4/4) organic lenses

08-SB5-26V
190 cm





CORE ID: 08-SB5-27p

LOCATION: Sabine National Wildlife Refuge Study Area 4
 Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 47.5" N **LONGITUDE:** 93° 41' 24.2" W

DATE CORED: 6/10/2008 **DATE DESCRIBED:** 9/23/2008

WATER DEPTH: 62.5 cm **ELEVATION:** -16 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

0-7 cm: PEAT, brownish-black (5Y 2/1) sapric peat, with olive-black (5Y 2/1) muddy lenses from 3-6 cm

- gradational contact -

7-20 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich to organic-poor mud, with peaty texture from 7-15 cm, disseminated black organic clasts, and small, olive-gray (5Y 4/1) clay lenses

- sharp deformed contact -

20-50 cm: MUD and CLAY, interbedded olive-gray (5Y 4/1), light olive-gray (5Y 6/1), and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with deformed bedding and disseminated black organic clasts and flecks

SB5-27P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-28p

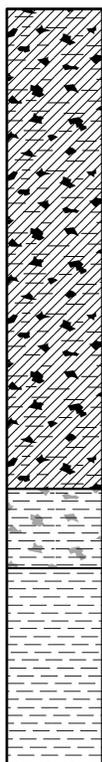
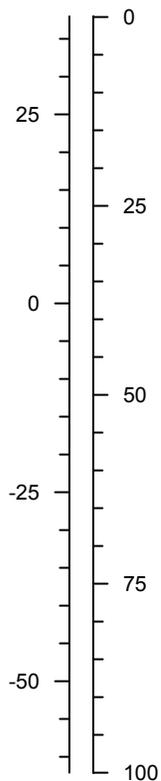
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 32.9" N LONGITUDE: 93° 40' 57.2" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 9/23/2008

WATER DEPTH: 9 cm ELEVATION: 38 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-63.5 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 5 mm x 6 cm long from 0-35 cm, visible root fragments become less common down-core

- gradational contact -

63.5-74 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud

- sharp contact -

74-100 cm: MUD and CLAY, interbedded olive-gray (5Y4/1), light olive-gray (5Y 6/1), and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with disseminated black organic flecks, deformed bedding, and a few degraded root fragments

S65-28P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-28v

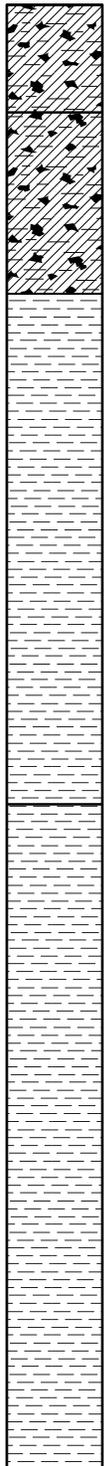
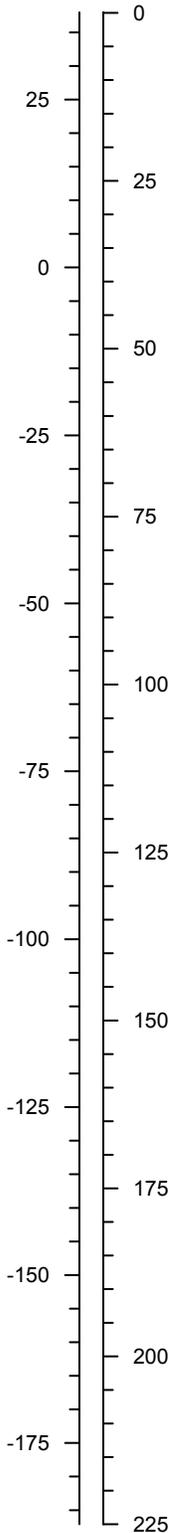
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 54' 32.9" N LONGITUDE: 93° 40' 57.2" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 2/9/2009

WATER DEPTH: 9 cm ELEVATION: 38 cm

CORE LENGTH: 218 cm COMPACTION: 5 cm



0-16 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric peat and muddy peat, with root pieces up to 3 cm long

16-43 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat, with degraded root fragments

- gradational contact -

43-119 cm: MUD and CLAY, olive-black (5Y 2/1) and dark-gray (N3) organic-rich to organic-poor mud interbedded with light olive-gray (5Y 6/1) and medium light-gray (N6) clay, with deformed bedding and a few disseminated black organic clasts and long, degraded root fragments

- sharp contact -

119-218 cm: CLAY, light olive-gray (5Y 6/1) and dark yellowish-orange (10YR 6/6) massive clay, with a few disseminated black organic flecks, vertical moderate brown (5YR 4/4) root casts, and fibrous root clusters along the core wall from 142-147, 153-167, and 207-214 cm

08-585-28V
218 cm

USDA
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CORE ID: 08-SB5-29p

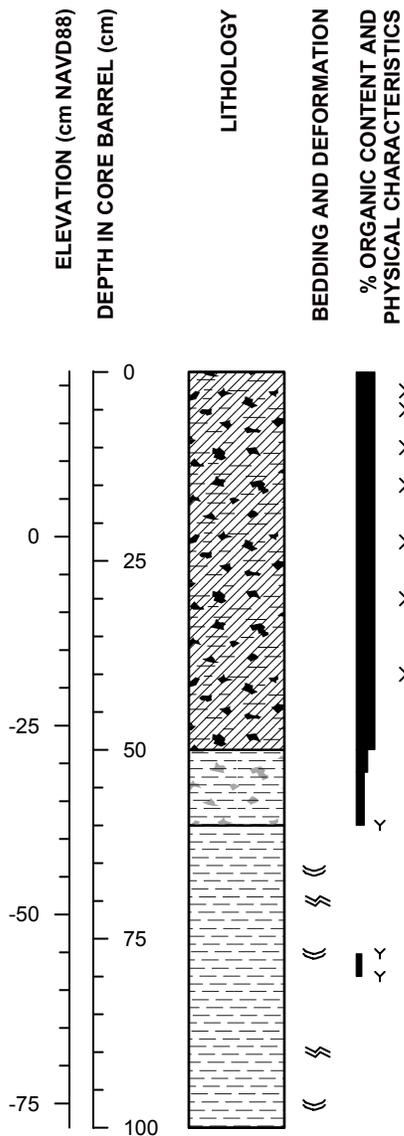
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 33.0 N LONGITUDE: 93° 40' 57.3" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 9/23/2008

WATER DEPTH: 25 cm ELEVATION: 22 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-50 cm: PEAT, brownish-black (5YR 2/1) sapric peat, with degraded root fragments

- gradational contact -

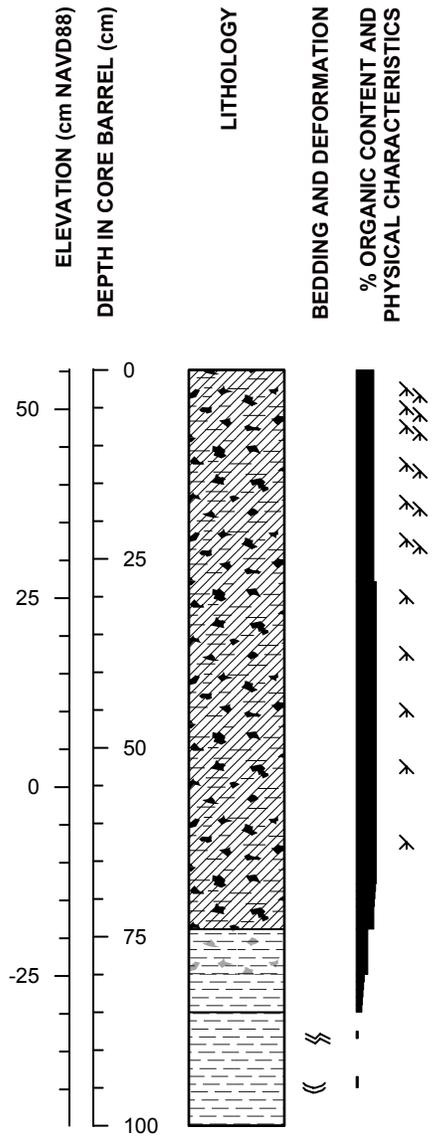
50-60 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud

- gradational contact -

50-100 cm: CLAY, interbedded medium dark-gray (N4) and light olive-gray (5Y 6/1) organic-rich to organic-poor mud and clay, with peaty clasts from 77-80 cm, disseminated small, pale yellowish-brown (10YR 6/2) silty lenses, and deformed bedding

SB5-29P





CORE ID: 08-SB5-30p

LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 50.0" N LONGITUDE: 93° 41' 14.7" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/3/2008

WATER DEPTH: 12 cm ELEVATION: 55 cm

CORE LENGTH: 100 cm COMPACTION: n/a

0-74 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 2 mm x 9 cm long from 0-28 cm, visible root fragments become less common down-core

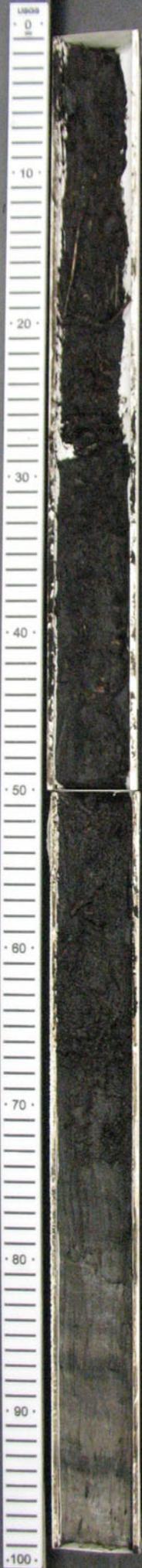
- gradational contact -

74-85 cm: MUD, olive-black (5Y 2/1) organic-rich mud from 74-80 cm grades into olive-gray (5Y 4/1) organic-poor mud with disseminated black organic clasts and flecks

- gradational contact -

85-100 cm: MUD and CLAY, interbedded dark yellowish-brown (10YR 4/2) and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with a few degraded root fragments, disseminated black organic flecks, and slightly deformed bedding

SB5-30P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-30v

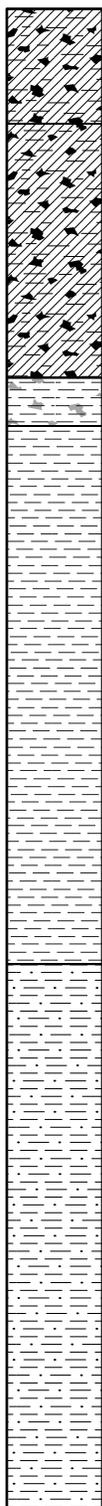
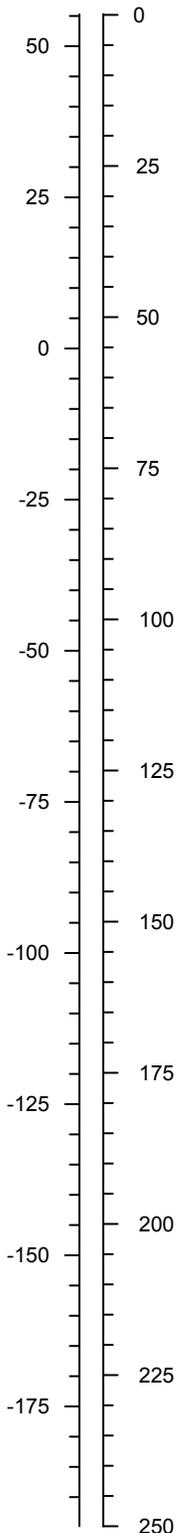
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 54' 50.0" N LONGITUDE: 93° 41' 14.7" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 2/10/2009

WATER DEPTH: 12 cm ELEVATION: 55 cm

CORE LENGTH: 248 cm COMPACTION: 4.5 cm



0-19 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric peat and muddy peat, with root pieces up to 2 mm x 5 cm long

19-61 cm: PEAT, brownish-black (5YR2/1) hemic to sapric peat, with a few long root pieces and disseminated root fragments

- sharp contact -

61-69 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with small black peaty clasts

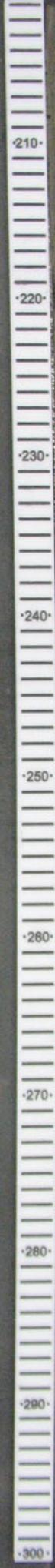
- gradational contact -

69-158 cm: MUD and CLAY, olive-black (5Y 2/1) and dark-gray (N3) organic-rich to organic-poor mud interbedded with light olive-gray (5Y 6/1) and medium light-gray (N6) clay, with disseminated black organic clasts and degraded root fragments, peaty horizons at 91, 123, and 152 cm, a thick, massive clay interbed from 98-114 cm, and deformed bedding

- gradational contact -

158-248 cm: CLAY, light olive-gray (5Y 6/1) and dark yellowish-orange (10YR 6/6) massive silty clay, with a few disseminated small, dark-gray (N3) organic clasts and degraded root fragments, and a large, vertical gray (N4) muddy lens from 182-192 cm

08-SB5-30V
248 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-31p

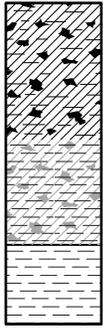
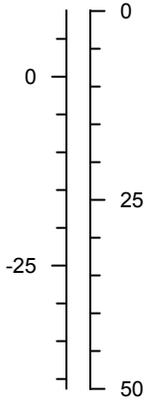
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 50.0" N LONGITUDE: 93° 41' 15.0" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/3/2008

WATER DEPTH: 38 cm ELEVATION: 9 cm

CORE LENGTH: 42.5 cm COMPACTION: n/a



0-32 cm: PEAT, brownish-black (5Y 2/1) hemic to sapric peat and muddy peat, with small root pieces from 0-6 cm, visible root fragments become less common down-core

- gradational contact -

32-42.5 cm: MUD and CLAY, interbedded olive-gray (5Y 4/1) and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with disseminated brownish-black (5YR 2/1) peaty clasts and a thin (5 mm), deformed light olive-gray (5Y 6/1) clay horizon at 41.5 cm

SB5-31P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-32p

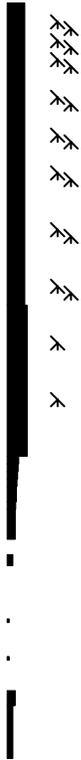
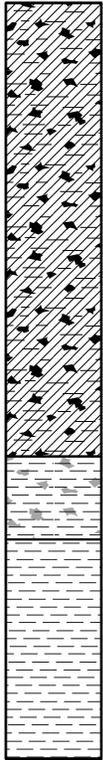
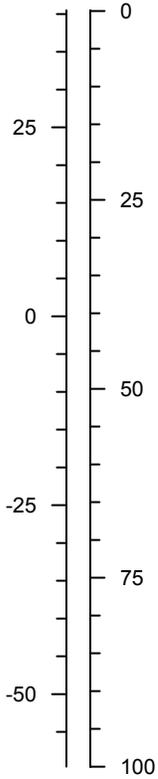
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 39.7" N LONGITUDE: 93° 41' 25.0" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/3/2008

WATER DEPTH: 6 cm ELEVATION: 40 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-60 cm: PEAT, brownish-black (5YR 2/1) saturated fibric to sapric peat and muddy peat, with root pieces up to 5 mm x 8 cm long from 0-40 cm

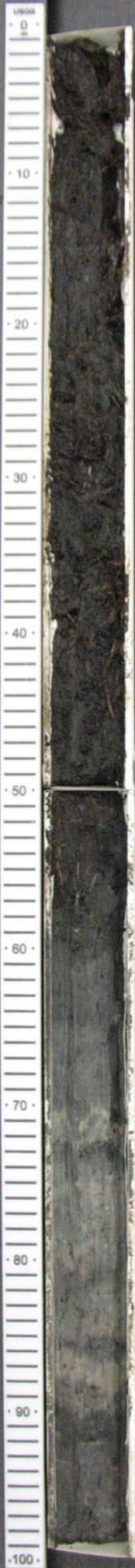
- gradational contact -

60-71 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud

- gradational contact -

71-100 cm: CLAY, interbedded olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) organic-rich to organic-poor mud and clay, with disseminated olive-black (5Y 2/1) organic clasts and flecks and deformed bedding

SB5-3ZP



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-32v

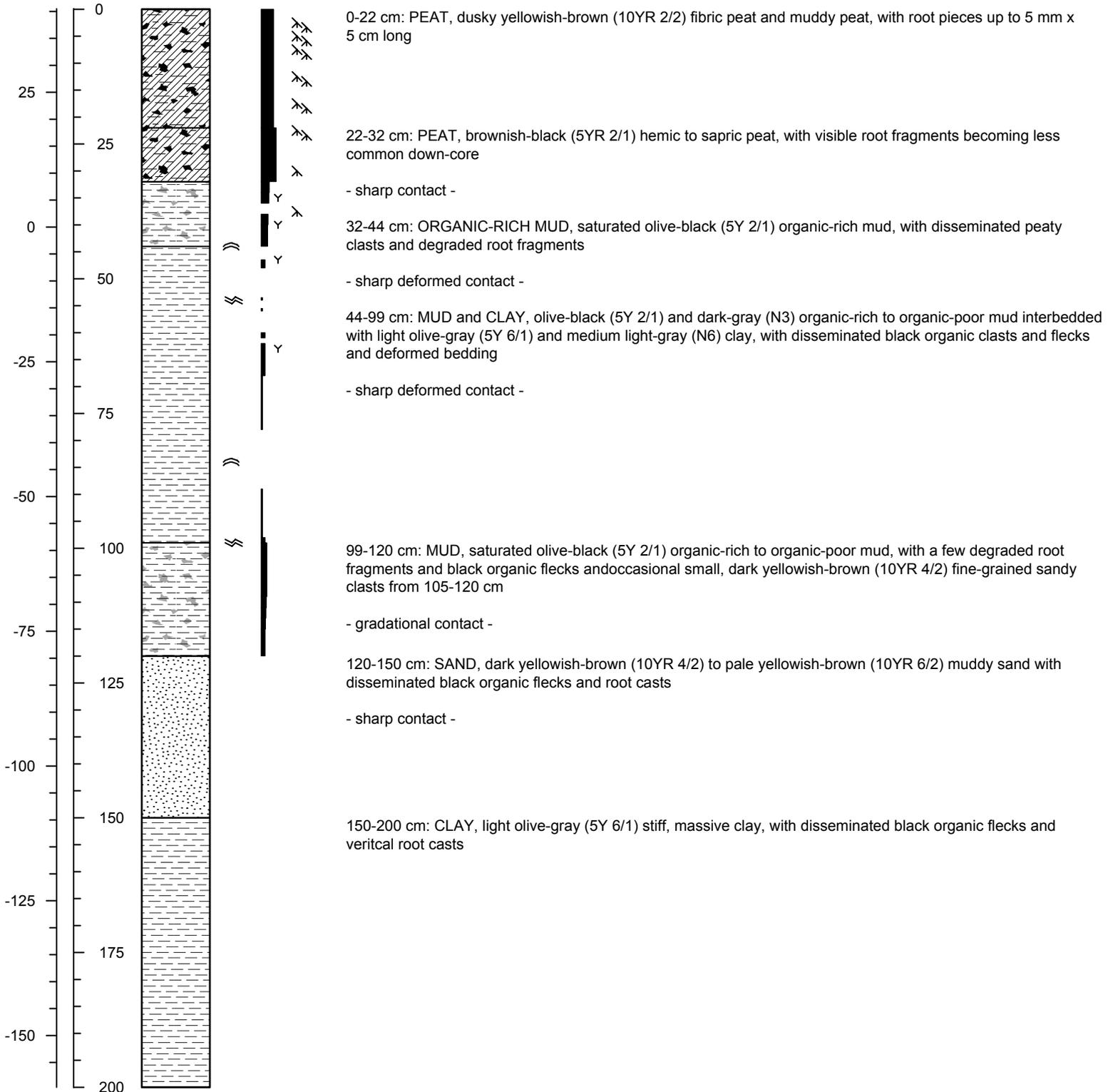
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 54' 39.7" N LONGITUDE: 93° 41' 25.0" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 2/10/2009

WATER DEPTH: 6 cm ELEVATION: 40 cm

CORE LENGTH: 200 cm COMPACTION: 17.5 cm



08-S65-32v
200 cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



CORE ID: 08-SB5-33p

LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 39.8" N LONGITUDE: 93° 41' 24.9" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/7/2008

WATER DEPTH: 33 cm ELEVATION: 13 cm

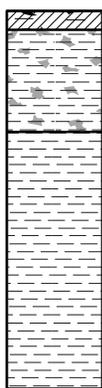
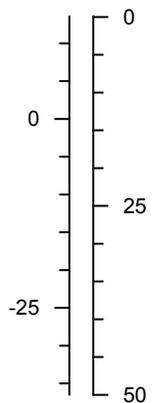
CORE LENGTH: 50 cm COMPACTION: n/a

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS



0-2.5 cm: PEAT, black (N1) peat, with granular texture and a small, articulated bivalve in the center of the unit

- sharp deformed contact -

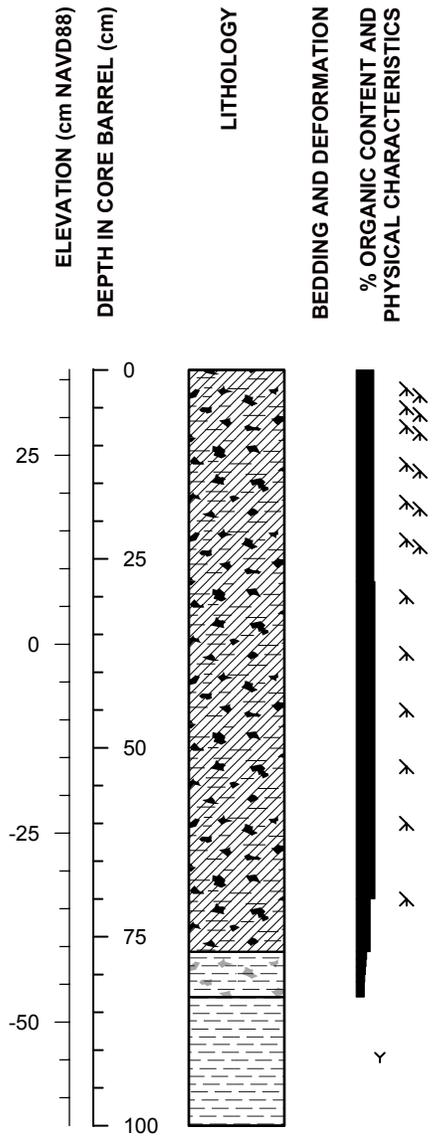
2.5-16 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with light olive-gray (5Y 6/1) clay lenses, disseminated charcoal-like clasts, and a few degraded root fragments

- sharp deformed contact -

16-50 cm: MUD and CLAY, olive-gray (5Y 4/1), light olive-gray (5Y 6/1), and olive-black (5Y 2/1), mottled organic-rich to organic-poor mud and clay, with disseminated black organic flecks

SB5-33P





CORE ID: 08-SB5-34p

LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-interior push core)

LATITUDE: 29° 54' 24.6" N **LONGITUDE:** 93° 40' 35.5" W
DATE CORED: 6/10/2008 **DATE DESCRIBED:** 10/7/2008
WATER DEPTH: 10 cm **ELEVATION:** 36 cm
CORE LENGTH: 100 cm **COMPACTION:** n/a

0-77 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 3 mm x 6 cm long from 0-28 cm, visible root fragments become less common down-core

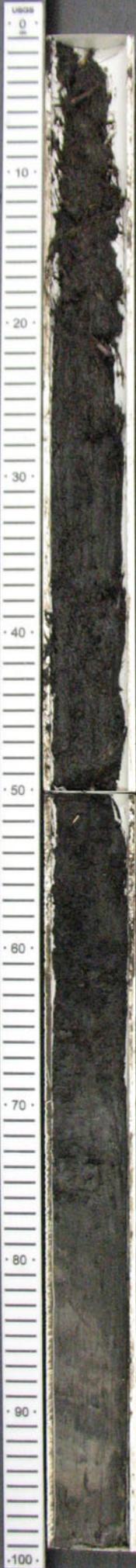
- gradational contact -

77-83 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with disseminated brownish-black (5YR 2/1) peaty clasts and olive-gray (5Y 4/1) clay lenses from 79-83 cm

- gradational contact -

83-100 cm: CLAY, olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) mottled clay, with a few disseminated olive-black (5Y 2/1) organic flecks and degraded root fragments and silty clasts at 96 cm

SBS-34P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-34v

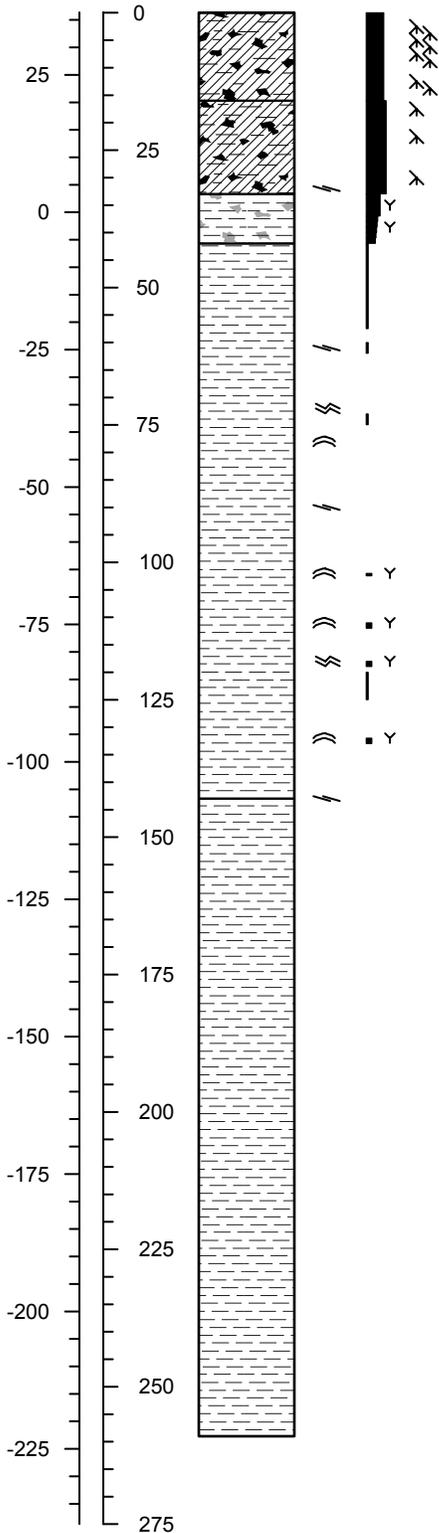
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-interior vibracore)

LATITUDE: 29° 54' 24.6" N LONGITUDE: 93° 40' 35.5" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 2/11/2009

WATER DEPTH: 10 cm ELEVATION: 36 cm

CORE LENGTH: 259 cm COMPACTION: 9 cm



0-16 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric peat and muddy peat, with root pieces up to 5 cm long

16-33 cm: PEAT: brownish-black (5YR 2/1) hemic to sapric peat

- sharp contact -

33-42 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with disseminated black peaty clasts and degraded root fragments

- gradational contact -

42-143 cm: MUD and CLAY, olive black (5Y 2/1) and dark-gray (N3) organic-rich to organic-poor mud interbedded with light olive-gray (5Y 6/1) and medium light-gray (N6) clay, with disseminated small black organic clasts and flecks and moderate brown root fragments, peaty horizons at 102, 111, 118, and 132 cm, and deformed bedding

- sharp contact -

143-259 cm: CLAY, light olive-gray (5Y 6/1) and dark yellowish-orange (10YR 6/6) stiff, massive clay, with a few disseminated black organic flecks and root casts

08-S85-34V
259 cm

USGS
0
10
20
30
40
50
60
70
80
90
100



110
120
130
140
150
160
170
180
190
200



210
220
230
240
250
260
270
280
290
300



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-35p

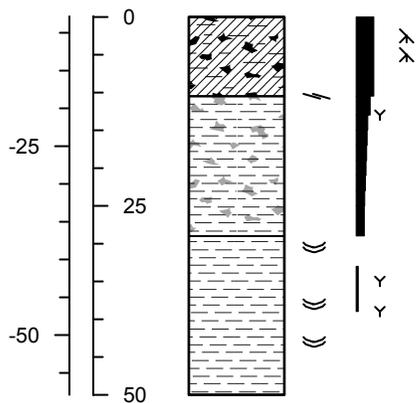
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 25.1" N LONGITUDE: 93° 40' 36.0" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/8/2008

WATER DEPTH: 54 cm ELEVATION: -8 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-10.5 cm: PEAT, brownish-black (5YR 2/1) sapric peat

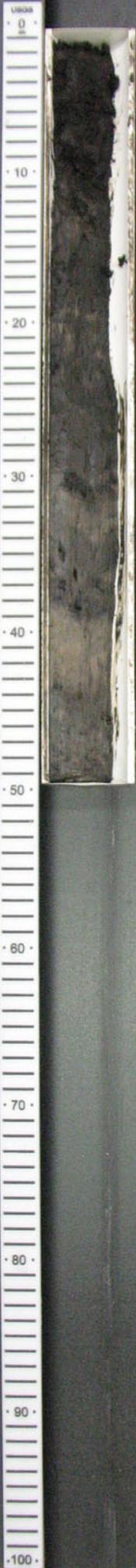
- sharp contact -

10.5-29 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with olive-black (5Y 2/1) peaty clasts most common from 10.5-13 cm and disseminated light olive-gray (5Y 6/1) clay lenses

- sharp deformed contact -

29.0-50.0 cm: CLAY, interbedded olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) organic-rich to organic-poor mud and clay, with disseminated olive-black (5Y 2/1) organic clasts and flecks and deformed bedding

SBS-35P



CORE ID: 08-SB5-36p

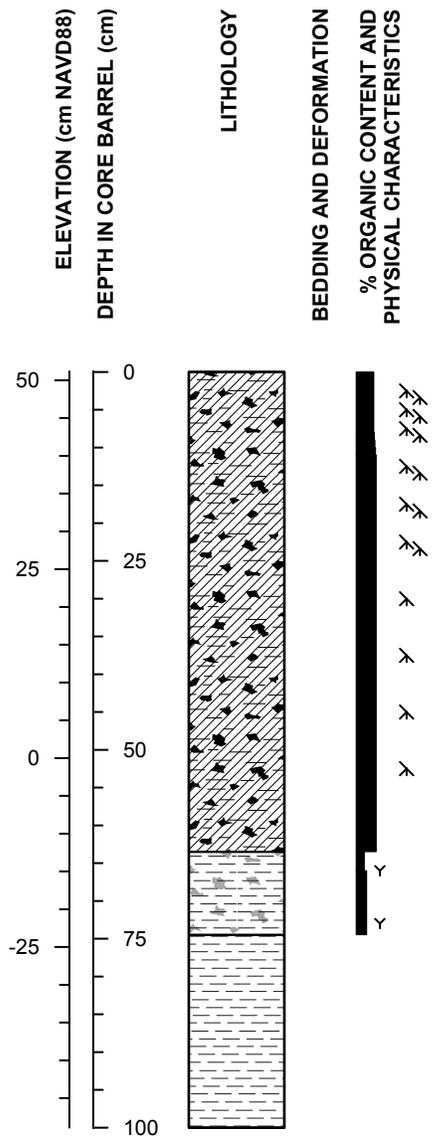
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 33.1" N LONGITUDE: 93° 40' 13.2" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/8/2008

WATER DEPTH: 9 cm ELEVATION: 51 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-63.5 cm: PEAT, brownish-black (5YR 2/1) fibric to sapric peat and muddy peat, with root pieces up to 2 mm x 4 cm long from 0-25 cm, visible root fragments become less common down-core

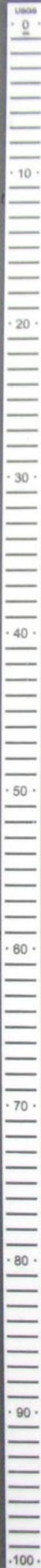
- sharp contact -

63.5-74.5 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with disseminated brownish-black (5YR 2/1) peaty clasts and a clean, olive-gray (5Y 4/1) clay lens from 63.5-66 cm

- gradational contact -

74.5-100 cm: CLAY, olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) mottled organic-poor mud and clay, with disseminated olive-black (5Y 2/1) organic clasts and flecks

SB5-36P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-36v

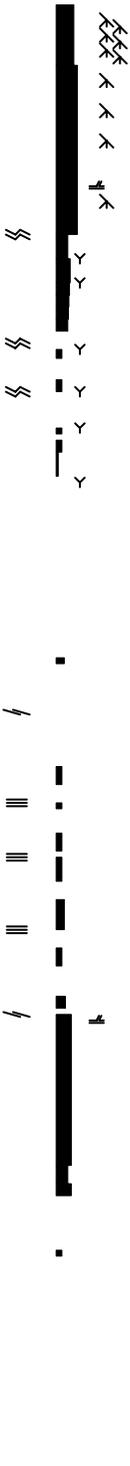
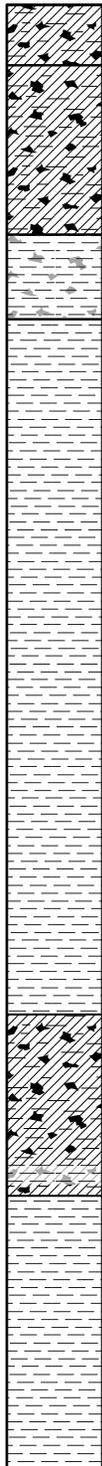
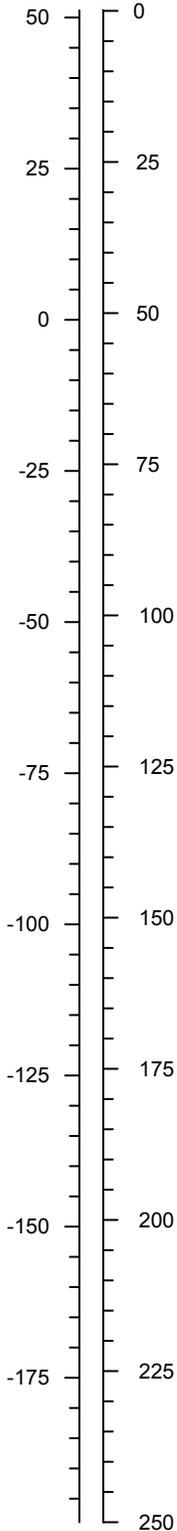
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh vibracore)

LATITUDE: 29° 54' 33.1" N LONGITUDE: 93° 40' 13.2" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 2/11/2009

WATER DEPTH: 9 cm ELEVATION: 51 cm

CORE LENGTH: 242 cm COMPACTION: 26.0 cm



0-10 cm: PEAT, dusky yellowish-brown (10YR 2/2) fibric peat and muddy peat, with root pieces up to 3 mm x 6 cm long

10-38 cm: PEAT, brownish-black (5YR 2/1) hemic to sapric peat, with visible root fragments becoming less common down-core

- sharp contact -

38-52 cm: ORGANIC-RICH MUD, olive-gray (5Y2/1) to dark-gray (N3) organic-rich mud, with brownish-black (5YR 2/1) peaty clasts and root fragments up to 2 cm long from 42-46 cm

- sharp contact -

52-167 cm: MUD and CLAY, olive-gray (5Y2/1) and dark-gray (N3) organic-rich to organic-poor mud interbedded with light olive-gray (5Y 6/1) and medium light-gray (N6) clay, with a thick, massive clay interbed from 78-96 cm and locally deformed bedding

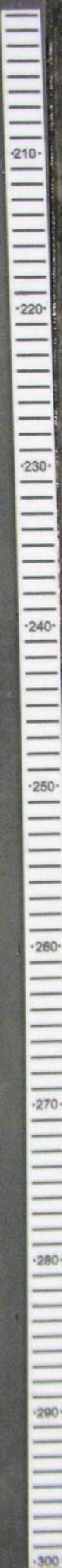
- sharp contact -

167-197 cm: PEAT, brownish-black (5YR 2/1) sapric peat, with a few degraded root fragments and an organic-rich muddy interbed from 192-195 cm

- sharp contact -

197-242 cm: MUD and CLAY, olive-black (5Y 2/1) to light olive-gray organic-poor mud and clay, with a thin organic-rich horizon from 206-207 cm

08-SB5-36v
242 cm



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-37p

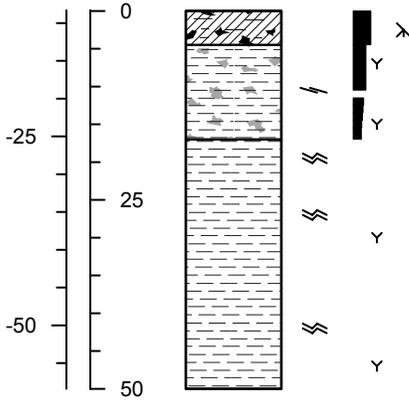
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 33.0" N LONGITUDE: 93° 40' 13.4" W

DATE CORED: 6/10/2008 DATE DESCRIBED: 10/9/2008

WATER DEPTH: 54.5 cm ELEVATION: -8 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-4.5 cm: PEAT, brownish-black (5YR 2/1) sapric peat

- gradational contact -

4.5-17 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with disseminated brownish-black (5YR 2/1) peaty clasts becoming less common down-core and a thin, deformed olive-gray (5Y 4/1) clean clay horizon at 10.5 cm

- gradational contact -

17-50 cm: CLAY, interbedded olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) organic-poor mud and clay, with disseminated black organic clasts and flecks and silty clasts at 48 cm

SB5-37P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-38p

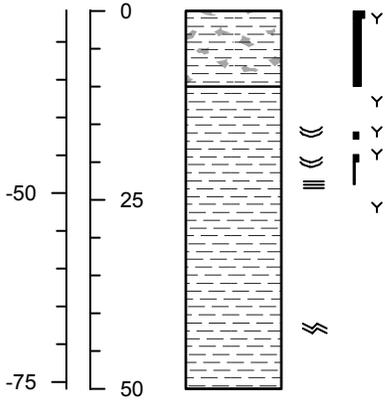
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 33.0" N LONGITUDE: 93° 40' 19.1" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/9/2008

WATER DEPTH: 72 cm ELEVATION: -26 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-10 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) to olive-gray organic-rich mud, with peaty clasts and light olive-gray (5Y 6/1) clay lenses

- gradational contact -

10-50 cm: CLAY, interbedded light olive-gray (5Y 6/1) and olive-gray (5Y 4/1) organic-poor mud and clay, with thin (< 1 cm) organic-rich horizons at 16 and 20 cm, disseminated black organic clasts and flecks, a few degraded root fragments, and disturbed bedding

SB5-38P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-39p

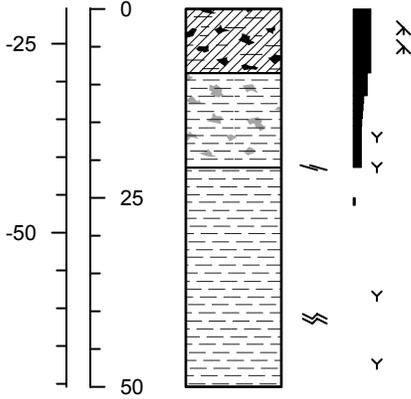
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 32.3" N LONGITUDE: 93° 40' 28.0" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/9/2008

WATER DEPTH: 66.5 cm ELEVATION: -20 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-8.5 cm: PEAT, brownish-black (5YR 2/1) sapric peat, with a hard, charcoal-like clast at 7 cm

- sharp contact -

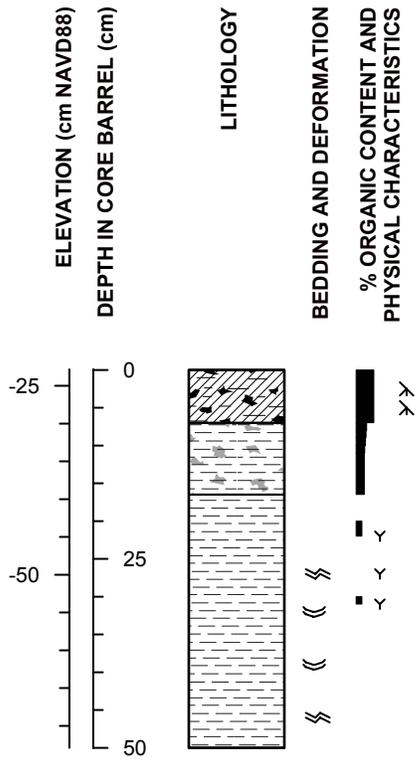
8.5-21 cm: ORGANIC-RICH MUD , olive-gray (5Y 4/1) and olive-black (5Y 2/1) organic-rich mud, with peaty clasts from 8.5-11.5 cm and disseminated clay lenses and black organic clasts

- gradational contact -

21-50 cm: CLAY, interbedded light olive-gray (5Y 6/1) and olive-gray (5Y 4/1) mottled organic-poor mud and clay, with a few disseminated black organic clasts and flecks and silty clasts at 45.5 cm

SB5-39P





CORE ID: 08-SB5-40p

LOCATION: Sabine National Wildlife Refuge Study Area 4
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 32.2" N **LONGITUDE:** 93° 40' 35.9" W

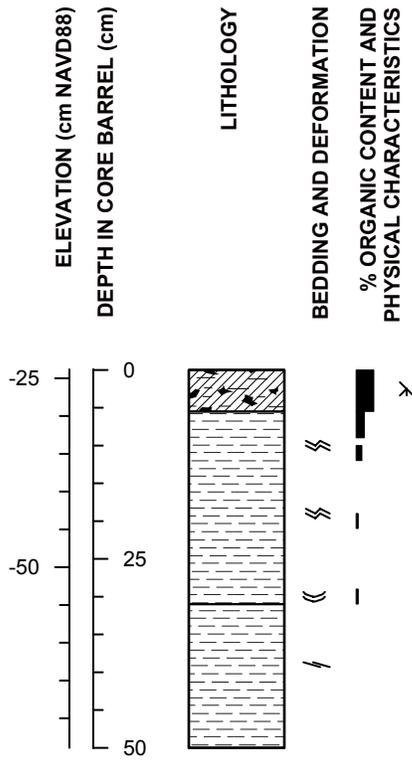
DATE CORED: 6/11/2008 **DATE DESCRIBED:** 10/14/2008

WATER DEPTH: 69 cm **ELEVATION:** -23 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

SB5-40P





CORE ID: 08-SB5-41p

LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 27.9" N **LONGITUDE:** 93° 40' 35.4" W

DATE CORED: 6/11/2008 **DATE DESCRIBED:** 10/14/2008

WATER DEPTH: 70 cm **ELEVATION:** -24 cm

CORE LENGTH: 50 cm **COMPACTION:** n/a

0-5.5 cm: PEAT, brownish-black (5Y 2/1) sapric peat

- gradational contact -

5.5-31 cm: MUD and CLAY, interbedded olive-gray (5Y 4/1), light olive-gray (5Y 6/1) and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with disseminated black organic flecks and deformed bedding

- gradational contact -

31-50 cm: CLAY, interbedded olive-gray (5Y 4/1) and light olive-gray (6/1) clay, with a few disseminated black organic flecks

SB5-41P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-42p

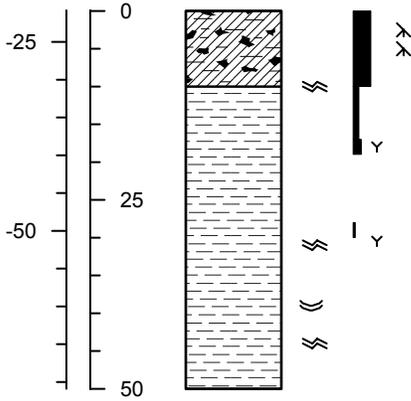
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 32.3" N LONGITUDE: 93° 40' 43.0" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/14/2008

WATER DEPTH: 67 cm ELEVATION: -21 cm

CORE LENGTH: 50 cm COMPACTION: n/a

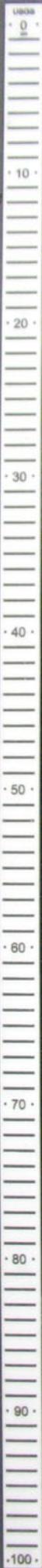


0-10 cm: PEAT, brownish-black (5Y 2/1) sapric peat, with pale brown (10YR 6/2) clay lenses

- sharp contact -

10-50 cm: MUD and CLAY, interbedded olive-gray (5Y 4/1) and light olive-gray (5Y 6/1) organic-poor mud and clay, with an organic-rich interbed from 17-19 cm, disseminated olive-black (5Y 2/1) organic clasts and flecks, and deformed bedding

SB5-4ZP



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-43p

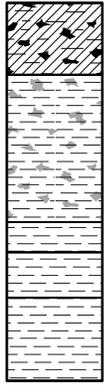
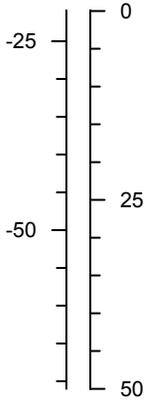
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 31.4" N LONGITUDE: 93° 40' 49.9" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/14/2008

WATER DEPTH: 67 cm ELEVATION: -21 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-9.5 cm: PEAT, brownish-black (5YR 2/1) sapric peat and muddy peat

- gradational contact -

9.5-29 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with pale yellowish-brown (10YR 6/2) clay lenses and disseminated black organic clasts

- sharp contact -

29-33 cm: CLAY, light olive-gray (5Y 6/1) clay, with a few disseminated black organic flecks

- sharp contact -

33-39 cm: MUD, olive-gray (5Y 4/1) organic-poor mud, with small, light olive-gray (5Y 6/1) clay lenses and disseminated black organic clasts and flecks

- sharp contact -

39-50 cm: CLAY, light olive-gray (5Y 6/1) and olive-gray (5Y 4/1) mottled organic-poor mud and clay, with a few disseminated black organic flecks becoming less common down-core

SB5-43P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-44p

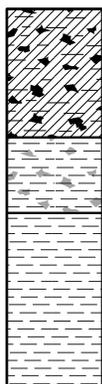
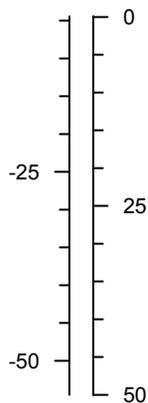
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 34.6" N LONGITUDE: 93° 41' 0.0" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/14/2008

WATER DEPTH: 50.5 cm ELEVATION: -4 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-17 cm: PEAT, brownish-black (5YR 2/1) sapric peat

- gradational contact -

17-27 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with brownish-black (5YR 2/1) peaty clasts from 17-24 cm

- gradational contact -

27-50 cm: CLAY, interbedded light olive-gray (5Y 6/1) and olive-gray (5Y 4/1) organic-rich to organic-poor mud and clay, with disseminated organic flecks, deformed bedding, and pale yellowish-brown (10YR 6/2) silty lenses from 45-50 cm

SB5-44P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-45p

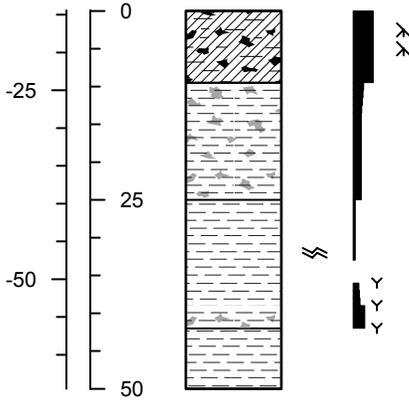
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 40.3" N LONGITUDE: 93° 41' 10.7" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/14/2008

WATER DEPTH: 60.5 cm ELEVATION: -14 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-9.5 cm: PEAT, brownish-black (5YR 2/1) sapric peat

- gradational contact -

9.5-25 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with clean, pale yellowish-brown (10YR 6/2) clay lenses from 17-25 cm

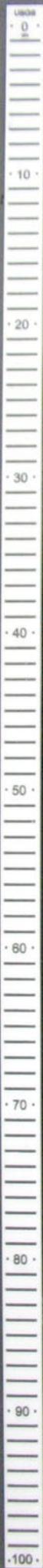
- gradational contact -

25-42 cm: MUD and CLAY, interbedded light olive-gray (5Y 6/1), olive-gray (5Y 4/1) and olive black (5Y 2/1) mottled organic-poor mud and clay, with a brownish-black (5YR 2/1) organic-rich horizon and peaty clasts from 39-42 cm, disseminated organic clasts and flecks, and deformed bedding

- sharp contact -

42-50 cm: CLAY, light olive-gray (5Y 6/1) and olive-gray (5Y 4/1) mottled clay, with occasional olive-black (5Y 2/1) organic clasts and flecks

SB5-45P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

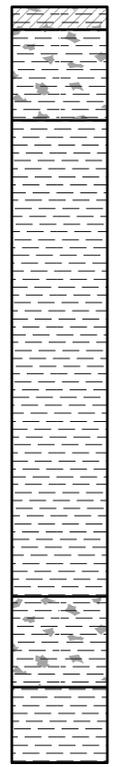
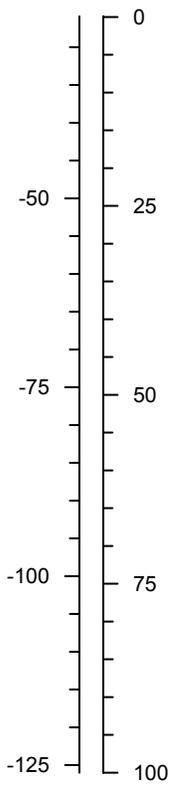
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-46p

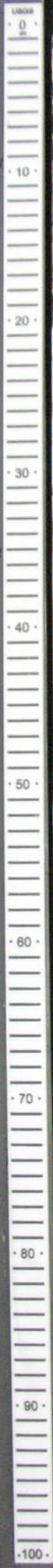
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 44.7" N LONGITUDE: 93° 41' 20.2" W
DATE CORED: 6/11/2008 DATE DESCRIBED: 10/15/2008
WATER DEPTH: 72 cm ELEVATION: -26 cm
CORE LENGTH: 100 cm COMPACTION: n/a



0-3 cm: PEAT, olive-black (5Y 2/1) muddy sapric peat
- gradational contact -
3-15 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with peaty texture from 3-8 cm and small, pale yellowish-brown (10YR 6/2) clay lenses
- sharp contact -
15-78 cm: CLAY, olive-gray (5Y 4/1) and pale yellowish-brown (10YR 6/2) mottled organic-rich to organic-poor mud and clay, with disseminated black organic clasts and flecks and peaty clasts from 47-51 cm
- sharp contact -
78-90 cm: ORGANIC-RICH MUD, olive-gray (5Y 4/1) organic-rich to organic-poor mud, with small black peaty clasts and dark yellowish-brown (10YR 4/2) root fragments
- sharp contact -
90-100 cm: CLAY, dark yellowish-brown (10YR 4/2) clay, with olive-gray (5Y 4/1) muddy lenses

SB5-46P



ELEVATION (cm NAVD88)
 DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
 PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-47p

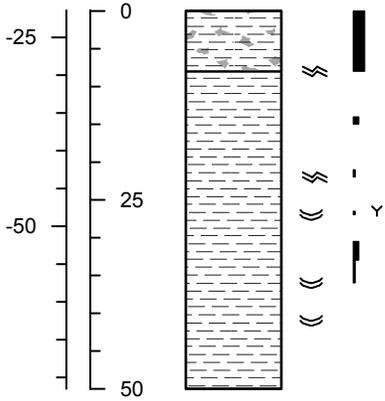
LOCATION: Sabine National Wildlife Refuge Study Area 4
 Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 41.3" N LONGITUDE: 93° 41' 22.9" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/15/2008

WATER DEPTH: 67.5 cm ELEVATION: -22 cm

CORE LENGTH: 50 cm COMPACTION: n/a



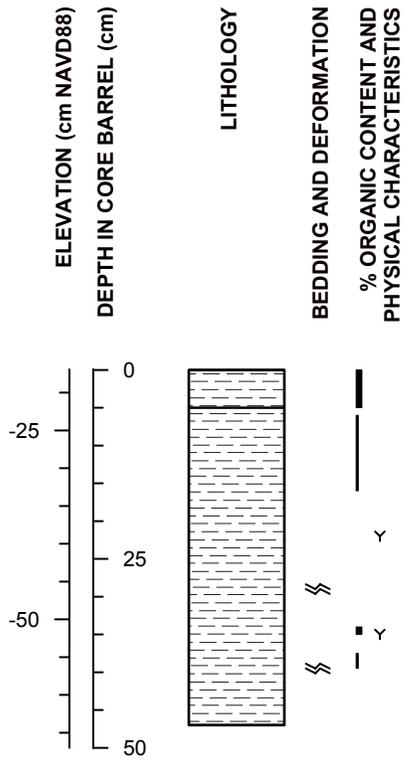
0-8 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with disseminated black peaty clasts

- sharp contact -

8-50 cm: MUD and CLAY, interbedded olive-gray (5Y 4/1), light olive-gray (5Y 6/1), and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with disseminated black organic clasts and flecks and yellowish-gray (5Y 8/1) silty clasts at 38 cm

SBS-47P





CORE ID: 08-SB5-48p

LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 48.2" N **LONGITUDE:** 93° 41' 16.6" W

DATE CORED: 6/11/2008 **DATE DESCRIBED:** 10/15/2008

WATER DEPTH: 63 cm **ELEVATION:** -17 cm

CORE LENGTH: 47 cm **COMPACTION:** n/a

0-5 cm: MUD, olive-black (5Y 2/1) organic-poor mud, with pale yellowish-brown (10YR 6/2) clay lenses

- gradational contact -

5-47 cm: CLAY, interbedded olive-gray (5Y 4/1), brownish-gray (5YR 4/1), and light olive-gray (5Y 6/1) organic-poor mud and clay, with a black, degraded root fragment from 12-17 cm, thin (<0.5 cm) organic-rich horizons at 22 and 35 cm, disseminated organic clasts and flecks, and slightly deformed bedding

SB5-48P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-49p

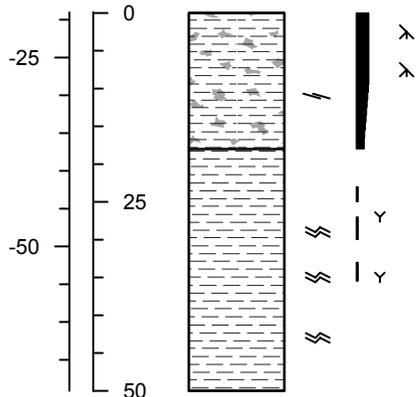
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 48.9" N LONGITUDE: 93° 41' 31.7" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/15/2008

WATER DEPTH: 65 cm ELEVATION: -19 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-18 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) massive organic-rich mud, with peaty texture from 0-9.5 cm and a few degraded root fragments

- gradational contact -

18-50 cm: MUD and CLAY, interbedded olive-gray (5Y 4/1), brownish-gray (5YR 4/1), and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with deformed bedding, disseminated black organic clasts and flecks, and clean, yellowish-gray (5Y 8/1) silty clasts at 21 and 48 cm

SBS-49P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION
% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 08-SB5-50p

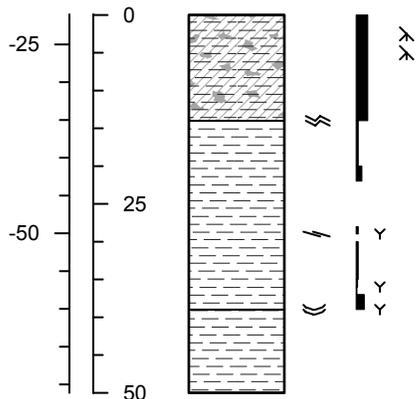
LOCATION: Sabine National Wildlife Refuge Study Area 4
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 50.0" N LONGITUDE: 93° 41' 39.9" W

DATE CORED: 6/11/2008 DATE DESCRIBED: 10/15/2008

WATER DEPTH: 67 cm ELEVATION: -21 cm

CORE LENGTH: 50 cm COMPACTION: n/a



0-14 cm: ORGANIC-RICH MUD, olive-black (5Y 2/1) organic-rich mud, with black peaty clasts and degraded root fragments from 0-6 cm and clean, pale yellowish-brown (10YR 6/2) clay lenses from 0-8 cm

- sharp deformed contact -

14-39 cm: MUD and CLAY, interbedded brownish-gray (5YR 4/1), light olive-gray (5Y 6/1), and olive-black (5Y 2/1) organic-rich to organic-poor mud and clay, with deformed bedding and disseminated small black peaty clasts and organic flecks

- sharp deformed contact -

39-50 cm: CLAY, brownish-gray (5YR 4/1) massive clay, with vertical dark-gray (N3) to olive-gray (5Y 4/1) muddy clasts and a silty lens at 48 cm

SB5-50P



ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 10-SB3-01p

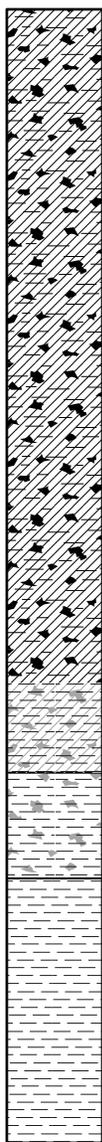
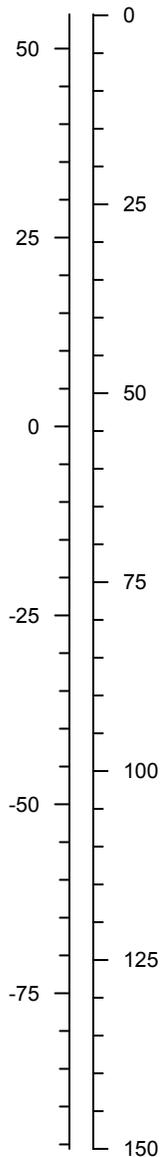
LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 20.6" N LONGITUDE: 93° 33' 46.5" W

DATE CORED: 8/6/2010 DATE DESCRIBED: 11/4/2010

WATER DEPTH: -12 cm ELEVATION: 54 cm

CORE LENGTH: 150 cm COMPACTION: n/a



0-101 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) hemic to sapric peat grades into muddy peat from 89-101 cm, with root pieces up to 5 mm x 5 cm long from 0-18 cm and a light olive-gray clay lens at 89 cm

- gradational contact -

101-115 cm: ORGANIC-RICH MUD, medium dark-gray (N4) to dark-gray (N3) organic-rich mud, with irregular peaty lens from 101-107 cm

- sharp contact -

115-150 cm: CLAY, interbedded dark-gray (N3) to light-gray (N7) organic-poor mud and clay, with a few disseminated organic clasts and flecks

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10-SB3-01P

CORE ID: 10-SB3-02p

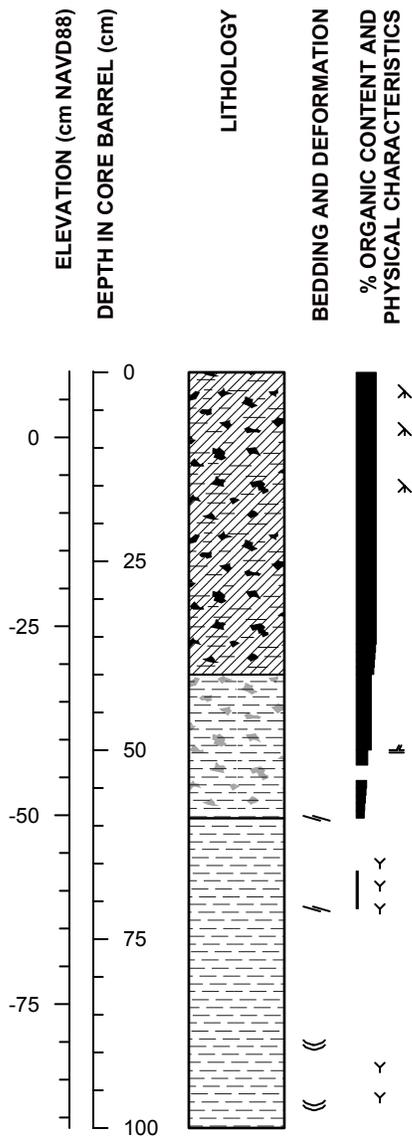
LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 20.3" N LONGITUDE: 93° 33' 46.6" W

DATE CORED: 8/6/2010 DATE DESCRIBED: 11/4/2010

WATER DEPTH: 34 cm ELEVATION: 9 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-40 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) sapric peat, with a few visible root fragments up to 2 cm long

-gradational contact -

40-59 cm: ORGANIC-RICH MUD, dusky yellowish-brown (10YR 2/2) to dark brownish-gray (5YR 3/1) organic-rich mud, with peaty clasts from 40-50 cm and a clean, light olive-gray clay lens from 52-54 cm

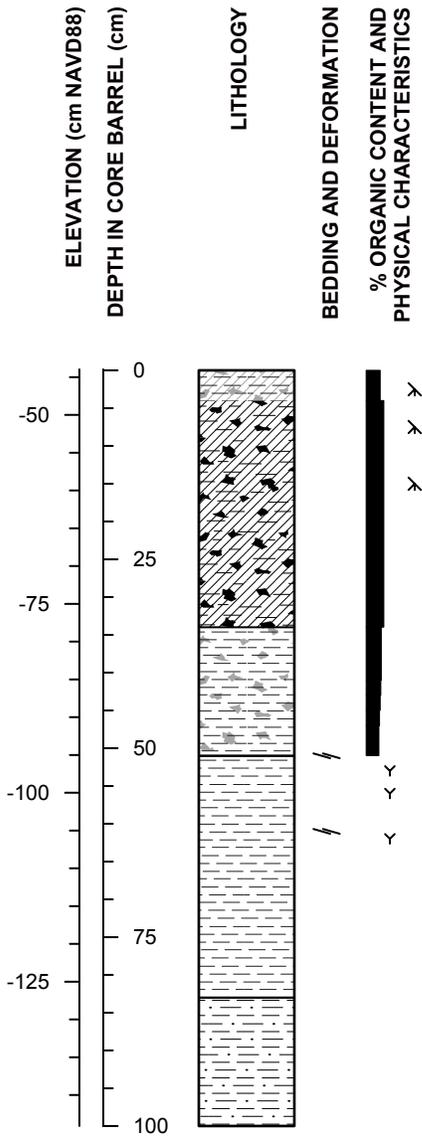
- sharp contact -

59-100 cm: CLAY, interbedded dark yellowish-brown (10YR 4/2) to medium light-gray (N6) organic-poor mud and clay, with a few disseminated organic clasts and flecks

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10-SB3-02P



CORE ID: 10-SB3-03p

LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 54' 37.5" N **LONGITUDE:** 93° 34' 0.7" W

DATE CORED: 8/6/2010 **DATE DESCRIBED:** 11/4/2010

WATER DEPTH: 87 cm **ELEVATION:** -44 cm

CORE LENGTH: 100 cm **COMPACTION:** n/a

0-34 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) sapric peat and muddy peat is saturated from 0-4 cm, with a few visible root fragments up to 2 cm long

- gradational contact -

34-51 cm: ORGANIC-RICH MUD, dusky yellowish-brown (10YR 2/2) to dark brownish-gray (5YR 3/1) muddy peat and organic-rich mud

- sharp contact -

51-83 cm: CLAY, light olive-gray (5Y 6/1) to medium-gray (N5) clay, with disseminated organic clasts and flecks and a moderate yellowish-brown silty horizon from 61-62 cm

83-100 cm: CLAY, medium-gray (N5) and moderate yellowish-brown (10YR 5/4) mottled clay and silty clay, with a few disseminated organic flecks

UNOS
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10-563-03P

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

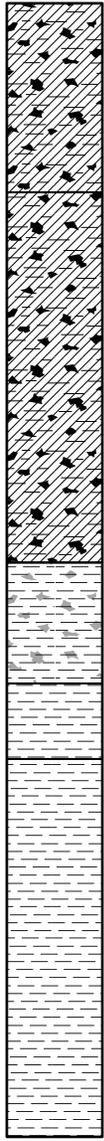
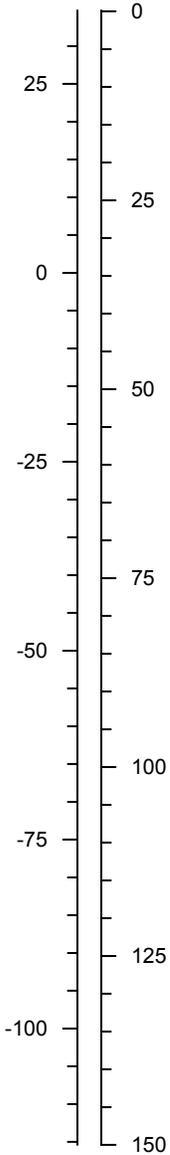
BEDDING AND DEFORMATION

% ORGANIC CONTENT AND PHYSICAL CHARACTERISTICS

CORE ID: 10-SB3-04p

LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 54' 53.6" N LONGITUDE: 93° 34' 15.3" W
DATE CORED: 8/6/2010 DATE DESCRIBED: 11/4/2010
WATER DEPTH: 8 cm ELEVATION: 35 cm
CORE LENGTH: 150 cm COMPACTION: n/a



0-25 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) fibric peat, with root pieces up to 5 mm x 10 cm long

25-74 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) hemic to sapric peat, with visible root fragments up to 3 cm long

- gradational contact -

74-90 cm: ORGANIC-RICH MUD, dark brownish-gray (5YR 3/1) to medium dark-gray (N4) muddy peat and organic-rich mud

- sharp contact -

90-100 cm: CLAY, medium-gray (N5) organic-poor clay, with disseminated organic clasts

100-150 cm: CLAY, interbedded brownish-gray (5YR 4/1) to light-gray (N7) clay, with silty clasts becoming more common down-core and a few disseminated dark-gray organic clasts and flecks

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10-583-04P

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 10-SB3-05p

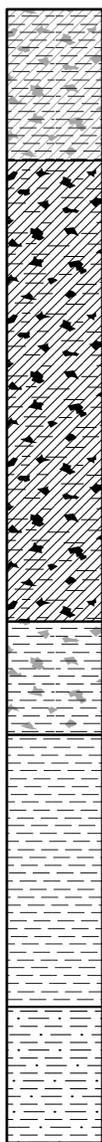
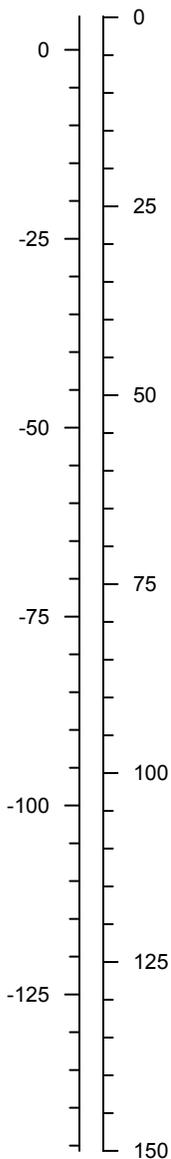
LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 54' 54.1" N LONGITUDE: 93° 34' 15" W

DATE CORED: 8/6/2010 DATE DESCRIBED: 11/8/2010

WATER DEPTH: 38 cm ELEVATION: 4 cm

CORE LENGTH: 150 cm COMPACTION: n/a



0-20 cm: PEAT, dusky yellowish-brown (10YR 2/2) muddy peat

20-81 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) sapric peat, with a few visible root fragments up to 2 cm long

- gradational contact -

81-96 cm: ORGANIC-RICH MUD, dusky yellowish-brown (1YR 2/2) to dark brownish-gray (5YR 3/1) muddy peat and organic-rich mud

- sharp contact -

96-132 cm: CLAY, medium brownish-gray (5YR 5/1) to medium light-gray (N6) massive clay, with a sandy lens from 105-106 cm and disseminated brownish-black organic clasts and flecks

132-150 cm: CLAY, medium brownish-gray (5YR 5/1) silty clay, with disseminated black organic flecks

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10-SB3-05P

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 10-SB3-06p

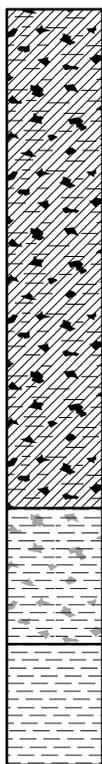
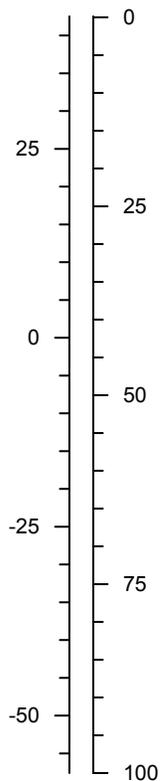
LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (marsh push core)

LATITUDE: 29° 55' 18.8" N LONGITUDE: 93° 34' 38" W

DATE CORED: 8/9/2010 DATE DESCRIBED: 11/8/2010

WATER DEPTH: -2 cm ELEVATION: 42 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-66 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) hemic to sapric peat, with root pieces up to 1 mm x 10 cm long from 0-20 cm

- sharp contact -

66-84 cm: ORGANIC-RICH MUD, dark brownish-gray (5YR 3/1) to medium dark-gray (N4) organic-rich mud, with light olive-gray clay lenses

- sharp contact -

84-100 cm: CLAY, interbedded medium dark-gray (N4) to medium brownish-gray (5YR 5/1) organic-poor mud and clay, with disseminated organic clasts and flecks



10-583-06P

ELEVATION (cm NAVD88)
 DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
 PHYSICAL CHARACTERISTICS

CORE ID: 10-SB3-07p

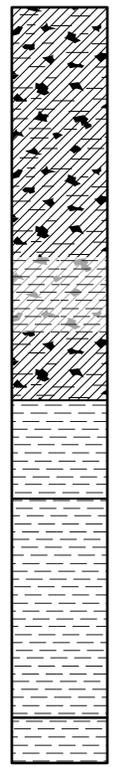
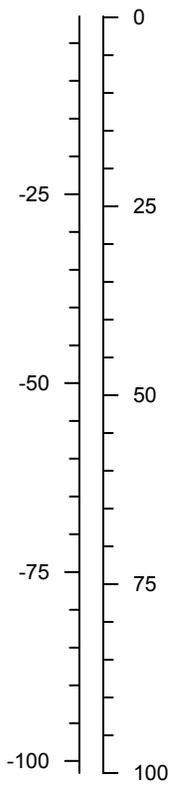
LOCATION: Sabine National Wildlife Refuge Unit 3
 Cameron Parish, LA (marsh-edge push core)

LATITUDE: 29° 55' 18.1" N LONGITUDE: 93° 34' 38.1" W

DATE CORED: 8/9/2010 DATE DESCRIBED: 11/8/2010

WATER DEPTH: 42 cm ELEVATION: -2 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-52 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) sapric peat and muddy peat, with a few visible root fragments up to 1 cm long from 0-33 cm and a light olive-gray clay lens from 38-40 cm

- sharp contact -

52-65 cm: MUD, brownish-gray (5YR 4/1) to medium dark-gray (N4) organic-rich to organic-poor mud, with light olive-gray clay lenses

- sharp contact -

65-94 cm: CLAY, interbedded medium brownish-gray (5YR 5/1) to medium light-gray (N6) organic-poor mud and clay, with disseminated brownish-black organic clasts and flecks

94-100 cm: CLAY, brownish-gray (5YR 4/1) clay, with dark yellowish-brown (10YR 4/2) silty lenses and a few disseminated organic flecks

UNRCS
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10-583-07P

ELEVATION (cm NAVD88)
DEPTH IN CORE BARREL (cm)

LITHOLOGY

BEDDING AND DEFORMATION

% ORGANIC CONTENT AND
PHYSICAL CHARACTERISTICS

CORE ID: 10-SB3-08p

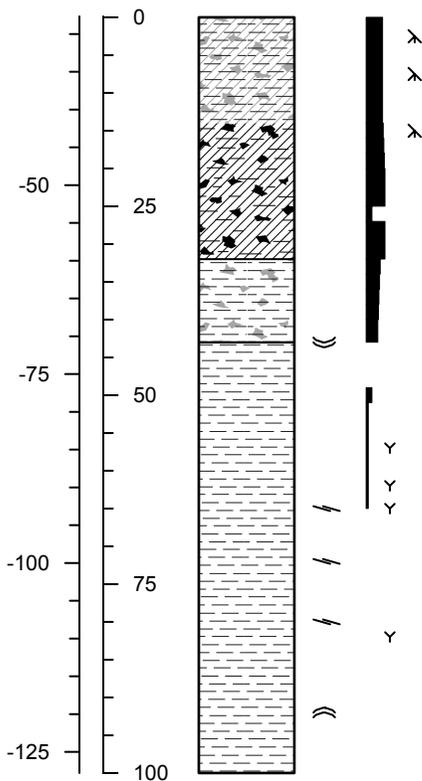
LOCATION: Sabine National Wildlife Refuge Unit 3
Cameron Parish, LA (open-water push core)

LATITUDE: 29° 55' 2.5" N LONGITUDE: 93° 34' 23.1" W

DATE CORED: 8/9/10 DATE DESCRIBED: 11/8/10

WATER DEPTH: 68 cm ELEVATION: -28 cm

CORE LENGTH: 100 cm COMPACTION: n/a



0-32 cm: PEAT, dusky yellowish-brown (10YR 2/2) to brownish-black (5YR 2/1) sapric peat and muddy peat, with a clean, light olive-gray clay lens from 25-27 cm

- gradational contact -

32-43 cm: ORGANIC-RICH MUD, dark-gray (N3) to medium dark-gray (N4) organic-rich mud

- sharp contact -

43-100 cm: CLAY, interbedded medium-gray (N5) to light brownish-gray (5YR 5/1) organic-poor mud and clay, with silty lenses from 67-68, 72-73, and 87-91 cm and disseminated black organic clasts and flecks



10-583-08P