Latitude: 72.516580 Longitude: -175.319605

Water Depth (m): 71.7 Length (m): 8.28 Recovery (%): 92

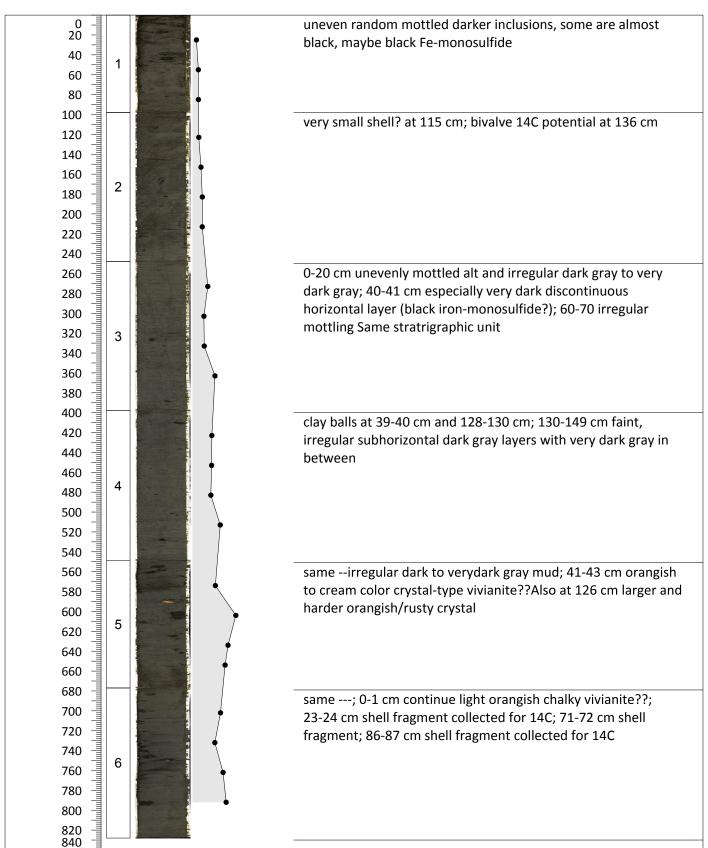
## SWERUS-L2-2-PC1



Undrained Shear Strength (kPa)

0 5 10 20

Depth (cm) 



Latitude: 72.838669 Longitude: -175.727122 Water Depth (m): 119.7 Length (m): 6.24

Recovery (%): 69

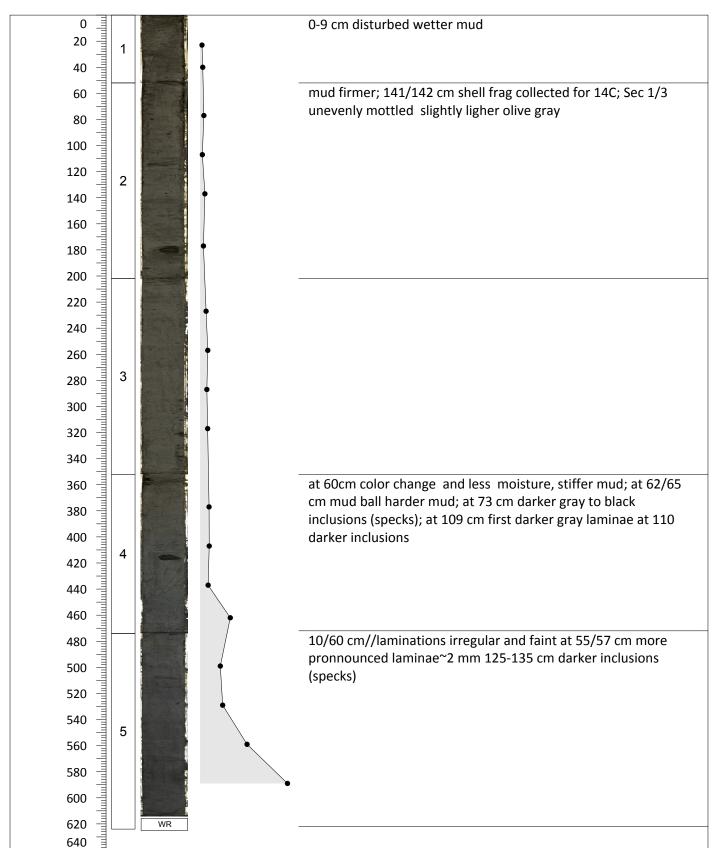
## **SWERUS-L2-4-PC1**



Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)



Latitude: 72.838669 Longitude: -175.727122 Water Depth (m): 119.7 Length (m): 0.46

Recovery (%): 38

# SWERUS-L2-4-TWC1



Undrained Shear Strength (kPa)

0 5 10 15 20 20 30

Depth (cm) Observer: L. Gemery



Latitude: 72.869910 Longitude: -176.207350

Water Depth (m): 115.5 Length (m): 1.42 Recovery (%): 47

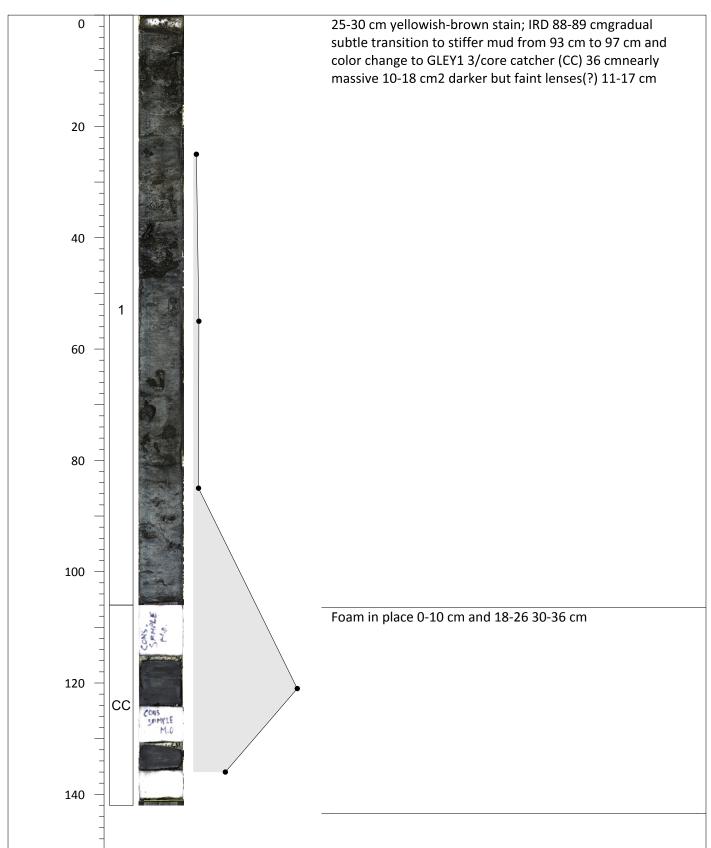
# SWERUS-L2-5-GC1



Undrained Shear Strength (kPa)

0 5 110 115 20 20 25 30

Depth (cm)



Latitude: 74.993181 Longitude: 179.819559 Water Depth (m): 391.5 Length (m): 3.085 Recovery (%): 103

## SWERUS-L2-7-GC1

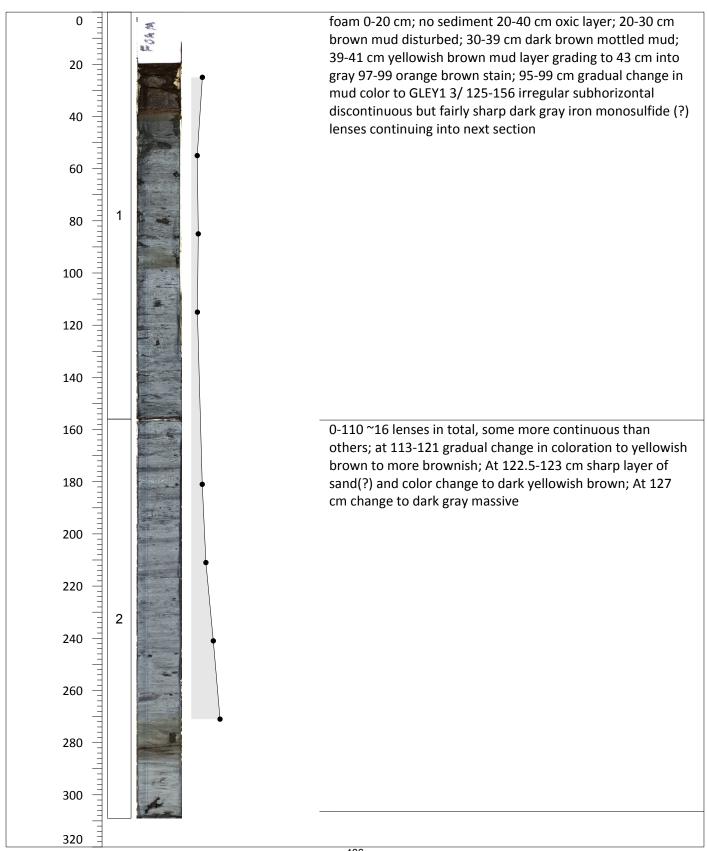


Undrained Shear Strength (kPa)

0 5 10 15 20 25 30

Depth (cm)

landandandandand



Latitude: 75.135093 Longitude: 179.851639

Water Depth (m): 515 Length (m): 6.415 Recovery (%): 72

## SWERUS-L2-8-PC1



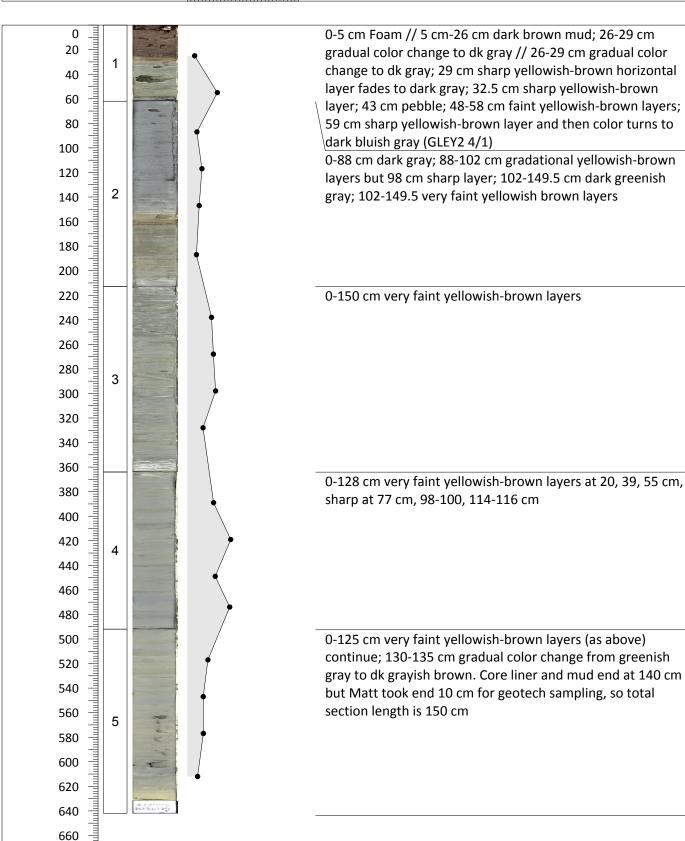
Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

680

Innlandan landan land



Latitude: 75.076126 Longitude: -179.926110

Water Depth (m): 475 Length (m): 2.66 Recovery (%): 89

## SWERUS-L2-9-GC1

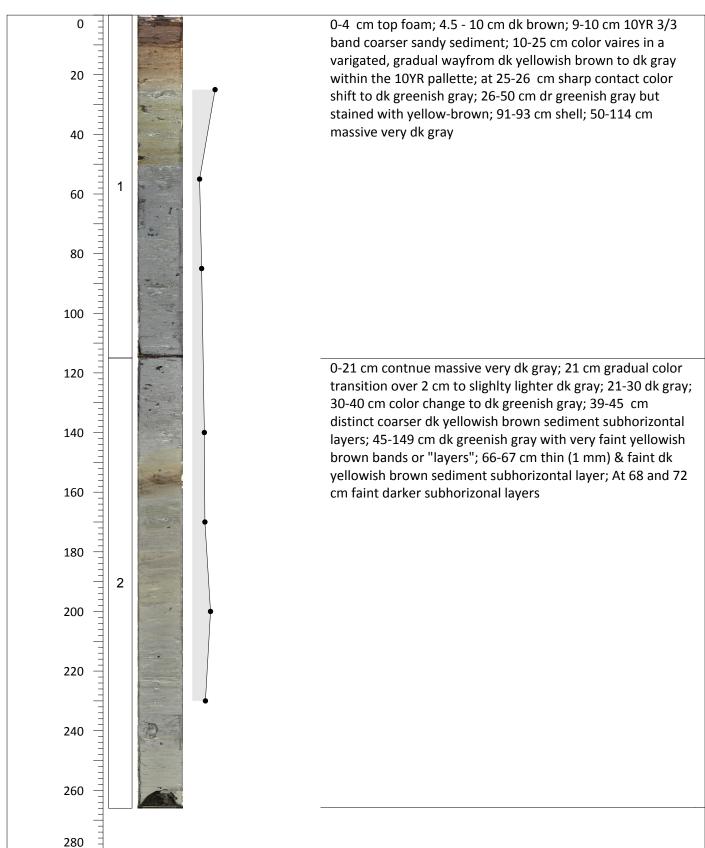


Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

limbooling limbooling



Latitude: 75.503513 Longitude: -179.099796

Water Depth (m): 1000 Length (m): 3.99 Recovery (%): 66.5

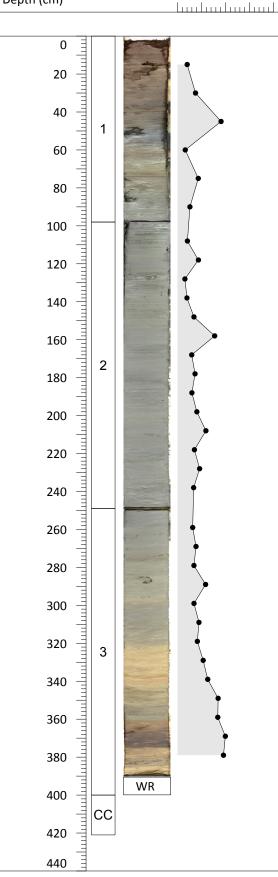
## SWERUS-L2-10-GC1



Undrained Shear Strength (kPa)

Depth (cm)

Observer: L. Gemery



0-3 cm top foam; 13-15 stippled color transition; 15-43 cm slightly lighter dk brown stippled with darker streaks 10YR 3/2. MANY SUBTLE LAYERS/changes in sediment coloration 34-76 cm; 43-44 cm fairly sharp but streaked contact darker brown layer; 44-46 cm color GLEY 4/1dk greenish gray; 46-50 cm color transition to dark greenish gray to dark gray; 50-58 cm GLEY1 4/ dk gray layer; At 65-70 cm dk greenish gray layer; 73-74 cm darker layer; 74-97.5 cm GLEY1 4/1 dk greenish gray

0-149 cm continue massive GLEY1 4/1 dk greenish gray with VERY subtle/faint yellowish-brown layers

0-20 cm continue GLEY1 4/1 dk greenish gray; 20-48 cm GLEY1 4/1 but with periodic yellowish "stains?"; 48-50 cm GLEY1 4/1 lightens slightly before color tranistion back; At 71-72 cm palette change to 2.5Y, specificallycolor change to 2.5Y 5/2 grayish brown; From 85 to 92 cm color transition to 2.5Y 5/4 light olive brown to 92 cm; From 92-103 cm color back to 2.5Y 5/2 with dker brown stippling; From 106-110 cm darker stippling; At 111 cm sharp change to 2.5Y 4/3 olive brown; At 116-125 cm sharp but uneven, mottled change to 10YR 2/2 dk br; At 125-126 cm to 2.5Y 4/3 olive brown stippled with darker streaks; Core liner and mud end at 139 cm but Matt took end 10 cm for geotech sampling, so actual total section length is 149 cm

0-8 cm foam; 9 cm-10 cm change 2.5Y 4/3 olive brown with yellowis-brownh layer to new palette 5Y--very olive mud 5Y 3/2 dark olive gray

Latitude: 75.498605 Longitude: -178.880571

Water Depth (m): 1018 Length (m): 3.82 Recovery (%): 64

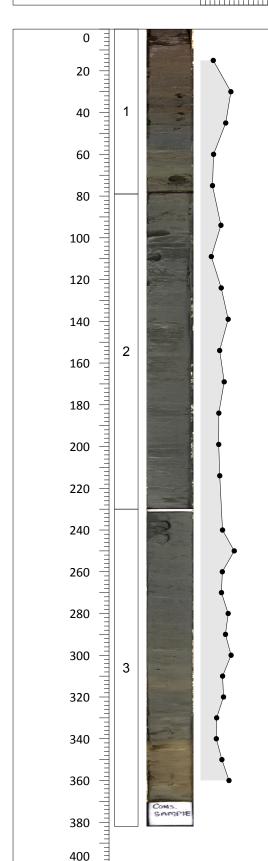
## SWERUS-L2-11-GC1



Undrained Shear Strength (kPa)

Depth (cm)

Observer: L. Gemery



0-15 cm dk brown mud 10YR 3/3; 15-46 cm color transition to slightly lighter dk brown stippled with at 36-37 cm darker layer 10YR 3/2MANY SUBTLE LAYERS/changes in sediment coloration 15-51 cmat 40 cm and 46 cm coarser-grained sediment layer; At 46 cm fairly sharp contact & color change to GLEY1 4/1 dark greenish gray; At 51 cm fairly sharp contact & color change to GLEY1 4/ dk gray; At 57 cm color transition back to GLEY1 4/1 dark greenish gray; 50-58 cm GLEY1 4/ dk gray layer; 71-72 cm subhorizontal coarser-grained sediment layer; 58-78 cm various tones of GLEY1 4/1 dark greenish gray

0-150 cm continue massive GLEY1 4/1 dk greenish gray with VERY subtle/faint yellowish-brown layers

0-40 cm continue GLEY1 4/1 dk greenish gray; At 84-86 cm color lightens to GLEY1 5/1 greenish gray; At 85 cm darker irregular stippled layer; At 111-112 cm palette change to 2.5Y, specifically color change to 2.5Y 5/2 grayish brown; At 129-133 cm color brightens to 2.5Y 5/3 light olive brown; From 133-140.5 cm color shift to 2.5YR 5/2 grayish brown; Core liner and mud end at 140.5 cm but Matt took end 10 cm for geotech sampling, so actual total section length is 150.5 cm

Latitude: 75.015920 Longitude: 179.752775

Water Depth (m): 384 Length (m): 8.46 Recovery (%): 94

## SWERUS-L2-12-PC1

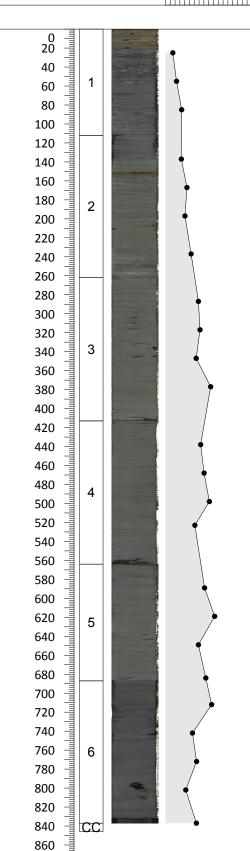


Undrained Shear Strength (kPa)

15 10 20

Depth (cm)

Observer: L. Gemery



0-2 cm dark brown mud wet & disturbed oxic zone; 2-12 cm dk brown stippled with grayish brown (2.5Y 5/2); from 9-11 cm and streaks of yellowish-brown (10YR 5/4); 12-21 cm yellowish brown layers21 cm change in mud color to dk gray (GLEY1 4/);21-111 cm dk gray with irregular/irratic dark gray iron monosulfide (?)

0-25 cm continue GLEY1 4/ dark gray; At 25 cm color change to GLEY1 4/1 dk greenish gray; From 32-43 cm yellowish brown layers (10YR 5/4) stiffer, some coarser grained layers; From 43 cm fairly homogenous dk greenish gray mud with very faint yellowish brown layers (10YR 5/4)

0-147.5 cm continues fairly homogenous dk greenish gray mud with very faint yellowish brown layers (10YR 5/4); At 147.5 to 150 cm foam

0-150 cm continues fairly homogenous dk greenish gray mud with very faint yellowish brown layers (10YR 5/4)

0-122 cm continues fairly homogenous dk greenish gray mud with very faint yellowish brown layers (10YR 5/4); From 43-50 cm, yellowish tinge to dk greenish gray

0-36 cm homogenous dk greenish gray mudwith very faint yellowish brown layers (10YR 5/4) But from 13-14 cm especially sharper yellowish brown layer with coarser grains; From 36-113 color change to dk gray massive; At 65 cm sample taken for gas analysis (Dennis); From 113-end retun to dk greenish gray

10 cm core catcher; continue homogenous dk greenish gray mud

Latitude: 76.180605 Longitude: -179.289132

Water Depth (m): 1119 Length (m): 7.68 Recovery (%): 85

Depth (cm)

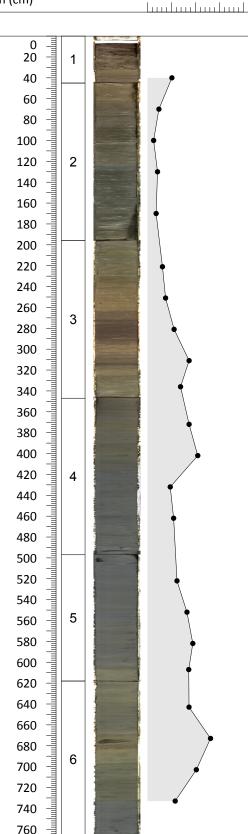
#### SWERUS-L2-13-PC1



Undrained Shear Strength (kPa)

- 10 - 15 - 20

Observer: *L. Gemery* 



780 800 0-8 cm foam, 8-19 cm dk brown; 19-44 cm color change to 2.5Y 4/2 dk grayish brown with stippling of darker hues (chroma); At 38-39 cm darker layer 2.5Y 3/2 and 40-42 cm another stippled darker layer; 0-26 cm continue 2.5Y 4/2; 26-42 cm color slightly lightens 2.5Y5/2 grayish brown with darker mottling 2.5Y 3/2; At 31.5-32.5 distinct darker layer 2.5Y 3/2; 32.5-42 cm 5Y 4/2 olive gray with some darker mottling; 42-78 cm uniform 5Y 4/2 olive gray; at 78 cm sharp contact color change to GLEY1 4/1 dk greenish gray; 78-143 GLEY1 4/1 with very faint yellowish brown layers; 143-150 cm color gradually brightens to 5Y 4/2

0-26 cm continue 2.5Y 4/2; 26-42 cm color slightly lightens 2.5Y5/2 grayish brown with darker mottling 2.5Y 3/2; At 31.5-32.5 distinct darker layer 2.5Y 3/2; 32.5-42 cm 5Y 4/2 olive gray with some darker mottling; 42-78 cm uniform 5Y 4/2 olive gray; at 78 cm sharp contact color change to GLEY1 4/1 dk greenish gray; 78-143 GLEY1 4/1 with very faint yellowish brown layers; 143-150 cm color gradually brightens to 5Y 4/2

0-40 cm continue 5Y 4/2 mixed with mottling of 2.5Y 5/2 grayish brown; 40-55 cm mottles grade into 2.5Y 5/2 mixed with 2.5Y 4/2; 55-67 cm 2.5Y 4/2 mottling mixed with 2.5Y 5/3; 67-80.5 mottled combination of 2.5Y4/2, 2.5Y 3/3/ and 10YR 3/3; 80.5-99 cm 10YR 3/3 gradually lightens to 10YR 4/2; 99-129 cm mottles of 2.5Y 4/2 and 2.5Y 3/3 within a lighter matrix of 2.5Y 4/3. Within this interval, 106-107 cm is a darker 2.5Y 3/3 discontinuous horizontal lens; 107-112 darker lines and spots of 2.5Y 3/1very dk gray and 2.5Y 2.5/1 black; 112-117 darker horizontal laminae, especially dark and distinct layer at 114 cm; 117-120 2.5Y 2.5/1 black/spotted lenses, but distinct layer at 118 cm; 123-129 2.5Y 4/2 mottled with 2.5Y 4/1; 129-150 various tones of grays 2.5Y 4/1, 4/2 with yellowish brown mottles of 2.5Y 5/3 0-13 cm 2.5Y 4/1 with distinct yellowish brown layers of 10YR 4/4 at 8 and 12 cm and coarser-grained sediment; 13-66 cm 2.5Y 4/1 irregularly, sparsely mottled with lighter 2.5Y 5/3 and 2.5Y 4/2. Distinct layers of coarser grained sediment at 44. Yellowish brown lens (10YR 4/4) at 57, 62 and 66 cm; 66-140 sharp contact color change to GLEY1 4/ dk gray with darker lenses at 120 and 139 cm 0-50 continue GLEY1 4/; 50-53 tinges of GLEY1 4/1; 53-67 GLEY1 4/; 67-73 GLEY1 4/1 tinge of yellowish brown at 72 and 86-87 cm; 109-120 color change to 5Y 4/2 olive gray

0-54 cm continue 5Y 4/2; 54-66 cm color tone lightens over several cm to 5Y 4/3; At 57-58 cm \*\*\* coral or undurated infilled burrow/ sedimentary structure???--collected and bagged for 14C; At 62 cm black layer; 66-79 yllow tones of sediment increase to 5Y 5/2; 79-112 some mottling of yellowish/olive 5Y 5/4; at 112 and 115 distinct layer 5Y 5/4; 115-150 GLEY1 4/

Latitude: 76.180605 Longitude: -179.289132

Water Depth (m): 1119 Length (m): 0.36 Recovery (%): 30

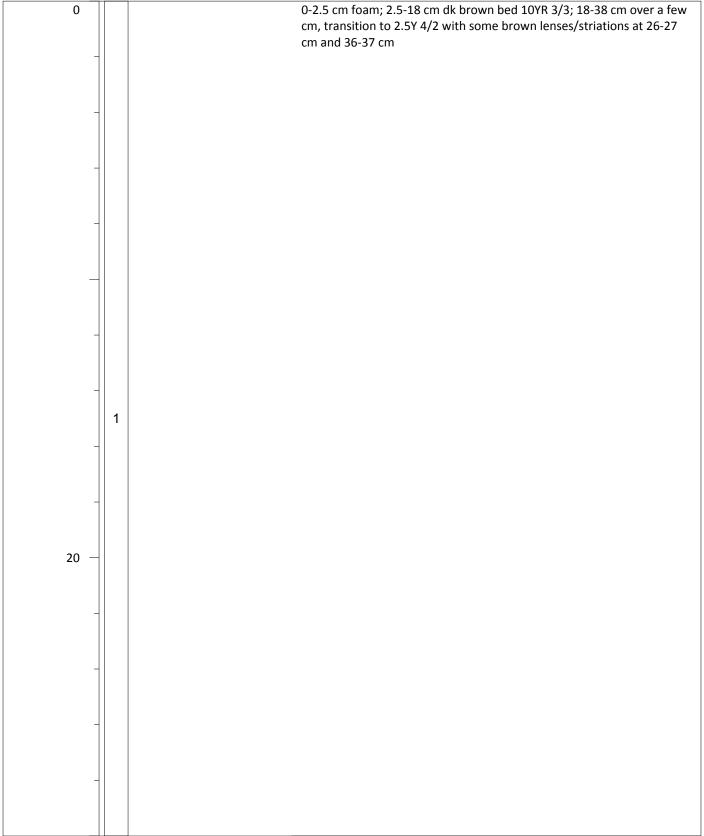
# **SWERUS-L2-13-TWC1**



Undrained Shear Strength (kPa)

0 5 10 20

Depth (cm) Observer: L. Gemery 



Latitude: 76.368032 Longitude: 176.432491

Water Depth (m): 737 Length (m): 3.82 Recovery (%): 64

#### SWERUS-L2-14-GC1

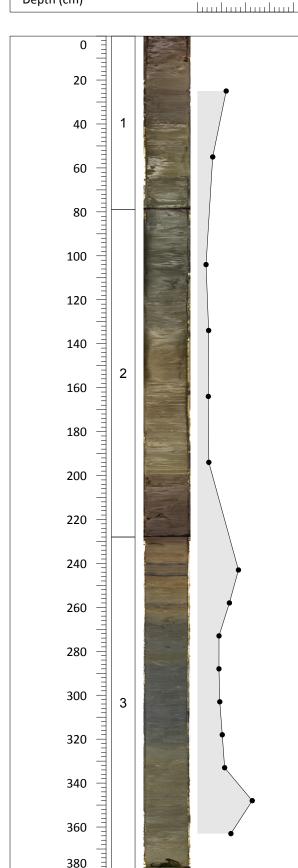


Undrained Shear Strength (kPa)

0 5 10 20 20

Depth (cm)

Observer: L. Gemery



0-12 cm 10YR 3/3 dk brown; 9-25 cm transition to 2.5Y 4/2; 25-27 dk brown layers within 2.5Y 4/2; 27-30 cm 2.5Y 4/2; 30-35 cm stippled darker layers become darker and more prominent (stippling of 10YR 3/2); 35-40 cm 2.5Y 4/1 with darker stippling of 10YR 3/2; 40-65 cm olive color between 5Y 4/2 and 5Y 4/3; 65-66 cm sharp contact dark layer 5Y 3/2; At 67 cm sharp color change to 5Y 4/2 olive gray to 78 cm end

0-40 cm contnue 5Y 4/2; 40-50 cm 5Y 4/2 with some streaking/stippling of 2.5Y 5/3; 50-62 cm transition to 2.5Y 5/3 light olive brown as predominant color; 62-110 2.5Y 5/3 with stippling of 2.5 4/4 and 2.5Y 5/4--complicated stippling; 110-120 cm 2.5Y 5/3 continues but now with streaks of 10YR 3/3 and 10YR 3/4; 120-130 cm fairly sharp color change at 120 cm to 10YR 4/2 dk grayish brown; 130-148 cm 10YR 3/3 dk brown bed

0-2 cm dk brown bed ends at 2 m; 2-10 cm transition to 10YR 4/2; 10-12 cm color brightens to 10YR 5/4; 12-18 cm several sharp-contact horizontal layers of 2.5Y 2.5/1 black spotted lenses in between distinct layers; 18-21 cm color transition to 2.5Y palette of 2.5Y 5/2; 21-22 cm yellowish-brown layer of 10YR 5/6;22-30 cm 2.5Y 5/2 with dark spotted inclusions of 2.5Y 2.5/1; At 30-33 cm 3 "spotted strata" or 3 "lines" of coarser darker sediment; 33-35 cm layers of yellowish brown 10YR 5/4; 35-38 cm 2.5Y 5/2; 38-42 cm another set of spotted semi-horizontal lenses and fairly sharp color transition to 2.5Y 4/1 dk gray; 42-54 cm 2.5Y 4/1 dk gray; 54-57 cm another section where mud brightens with yellowish hues of 10YR 5/4; 57-60 cm color transitions 5Y 4/2; 60-95 cm color quickly transitions in a few centimeters to GLEY1 4/ dk gray; 95-150 cm 5Y 4/2 olive gray with very faint yellowish brown lenses periodically

Latitude: 76.323278 Longitude: 175.898134

Water Depth (m): 504 Length (m): 2.805 Recovery (%): 47

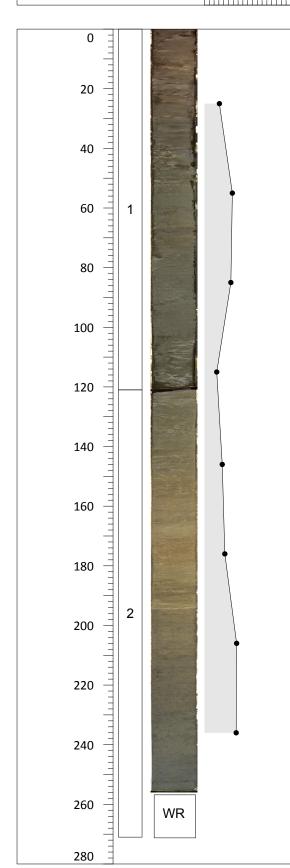
Depth (cm)

## SWERUS-L2-15-GC1



Undrained Shear Strength (kPa)

Observer: *L. Gemery* 



0-5 cm dk brown, 5-18 cm color change to 10YR 4/3; 18-30 cm continue 10YR 4/3 but with darker stipples; 30-41 cm bands of 2.5Y 4/1 dk gray to 2.5Y 4/2 dk grayish brown; At 33 cm darker band ~2 cm; 41-45 cm dk gray 2.5Y 4/1; 45-46 cm 2.5Y 5/3 light olive brown layer; 46-47 cm dk gray band 2.5Y 4/1; 47-68 cm 5Y 4/2 olive gray; 68-70 cm continue olive gray with darker stippled layer of 5Y 3/1 very dk gray; 70-121 cm slight color darkening to 5Y 4/2 olive gray massive

0-18 cm continue 5Y 4/2; 18-48 gradual color transition from 5Y 4/2 to 2.5Y 4/3 olive brown; 48-58 cm gradual transition to 2.5Y 5/3 light olive brown; 58-65 cm light olive brown dims slightly to 2.5Y 5/2 grayish brown; At 65-69 cm texture of sediment stiffens and coarsens, slight chroma change to 2.5Y 4/2; From 69-73 cm return to smoother texture and 2.5Y 5/2; At 73 cm dramatic and sharp sediment texture change, grain size probably increases/sandier, "cottage cheese" appearance with clay balls. Also at 73 cm color changes to 2.5Y 4/2; From ~108 cm to 133.5 sediment becomes increasingly "streaky" with GLEY1 3/1 but still underlying 2.5Y 4/2; liner and mud end at 134 cm but Matt took end 15 cm for geotech sampling, so actual total section length is 149 cm

Latitude: 76.502192 Longitude: 176.648144

Water Depth (m): 991 Length (m): 3.57 Recovery (%): 59.5

#### SWERUS-L2-16-GC1

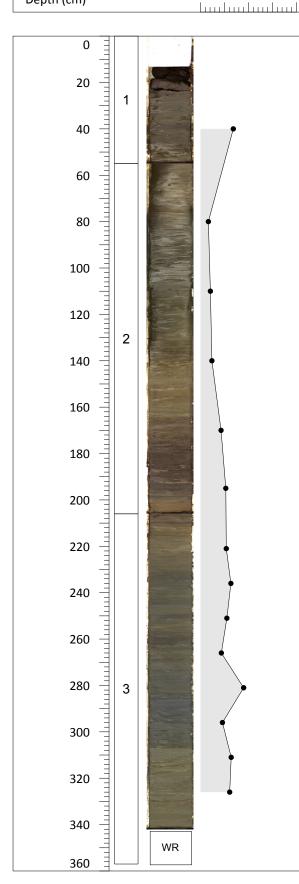


Undrained Shear Strength (kPa)

15 - 15 - 20

Depth (cm)

Observer: L. Gemery



0-14 cm foam; 14-25 cm dk brown bed 10YR 3/3; 25-39 cm 2.5Y 4/2; 39-41.5 dk brown striated layers/lenses within; 41.5-48 cm 2.5Y 4/2 but with faint striations/stippling of darker brown; 48-55 cm color brightens with more yellow tones to 2.5Y 5/3 and 2.5Y 4/4

0-19 continue 2.5Y 4/4 It olive brown with striations of 2.5Y 4/2; 19-21 cm darker layer of 2.5Y 3/2 within; 21-62 cm over a few cms, color transitions to 5Y 4/2; 62-75 cm 5Y 4/2 with some stippling and mottling of 2.5Y 5/3 as color transitions more to 2.5Y 4/2; 75-85 cm color btw 2.5Y 4/2 and 2.5Y 4/3; 85-86 cm color transitions to 2.5Y 5/3; 86-97 cm 2.5Y 5/3 light olive brown; 97-106 color brightens to bw 2.5Y 4/4 and 2.5Y 5/4; 106-109 cm darker layers and lenses stippled with 2.5Y 4/3; 109-119 cm farily sharp contact color transition to 10YR palette, specifically 10YR 4/2; 119-121 cm stippling mix of 10YR 4/2 and striations of 10YR 3/3; 121-137 cm dk brown bed 10YR 3/3; 137-143 cm color darkens to 10YR 3/2 with black "spotted" inclusions; 143-144.5 cm darker lenses of 2.5Y 3/1; 144.5-151 sharp color contact brightening to 10YR 5/4

0-4 cm continue 10YR 5/4 with some 10YR 4/4 and mixed with darker striations and "clumps" of 10YR 3/2; 4-5 cm horizontal darker band of 10YR 3/1; 5-9 cm color shifting to 2.5Y palette, 2.5Y 5/3 and 2.5Y 4/3; 9-24 cm 2.5Y 4/2 and 2.5Y 4/3 mottled; At 23 and 24 cm, 2 horizontal 1 mm strata of coarser grains; At 24 cm, fairly sharp color transition to 5Y palette and 5Y 4/2; 24-71 cm underlying color is 5Y 4/2 but with stippling of lighter olive, gray and tans of 2.5Y 5/3; Note black "spotted" inclusions of 5Y 2.5/1 between 62 and 68 cm; 71-79 cm color transition to GLEY1 palette with GLEY1 4/1 but more yellowish section (tones of 10YR 5/4) btw 75-79 cms; 80-85 cm GLEY1 4/; 85-100 cm slight change in color to GLEY1 4/1; 100-136 cm Over a few cms, color changes to 5Y 4/2 with stippling of 5Y 4/3 and 5Y 4/4; 136-151 cm: Mud and core liner end at 136 cm, but Matt took last 15 cm for geotech analysis

Latitude: 76.464618 Longitude: 176.723823

Water Depth (m): 977 Length (m): 6.41 Recovery (%): 71

Depth (cm)

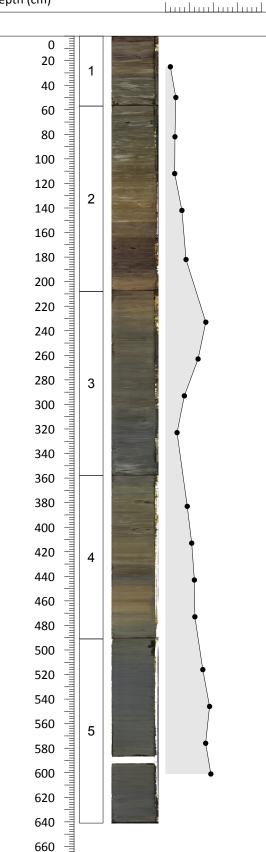
## SWERUS-L2-17-PC1



Undrained Shear Strength (kPa)

- 10 - 20 - 20

Observer: *L. Gemery* 



680

0-6 cm dk brown bed 10YR 3/3; 6-14 cm 2.5Y 4/2; 14-16 cm stippled dk brown layers ~2 cm within 2.5Y 4/2; 16-17 cm 2.5Y 4/2; 17-19 cm stippled dk brown subhorizontal layers within 2.5Y 4/2; 19-21 cm color lightens to 2.5Y 5/3; 23-31 cm 2.5Y 5/3; 31-34 cm darker brown 2.5Y 3/2 stippling as base color begins to shift to 5Y palette, 5Y 4/2; 34-55 cm 5Y 4/2 with yellowish/tan streaky/stippled hues

0-43 cm continue 5Y 4/2Sec2: 43-65 cm color transitions over a few cm to 2.5Y 4/2 with stippling of 2.5Y 5/2; 65-78 cm color brightens to 2.5Y 5/2; 78-94.5 cm color brightens to 2.5Y 5/3; 94.5-106 cm fairly sharp color contact shift with stippling to 10YR palette, 10YR 4/2; 106-134 cm 10YR 3/3 dk brown bed; 134-140 cm very stippled mix of mostly 10YR 3/3 with stipples of 2.5Y 5/3; 143-150 cm mostly 10YR 5/4 with some streaking of brighter colors/yellow and red tones; At 150 cm dark gray inclusions

0-6.5 cm 10YR 4/2 and 10YR 4/3 tones, at 5 cm gray layer ~2 mm; 6.5-7.5 cm darker brown 10YR 3/1 horizontal layer; 7.5-25 cm 2.5Y 5/3 with some striations of gray and gradual mixing to 2.5Y 4/1 and 2.5Y 4/2; 25-105 cm within ~5 cm, start gradual color shift to 2.5Y 4/1. In this interval there are periodic yelow lenses of 2.5Y 5/3; 106-145 cm base color shifts to GLEY1 4/dk gray; 145-150.5 cm GLEY1 4/1 dk greenish gray

0-5 cm GLEY1 4/1;5-16 cm GLEY1 4/1 starts transition to 5Y palette, 5Y 4/2; 16-57 cm 5Y 4/2 olive gray --some small red-pink "spots" ie: 56 cm; 57-62 cm gradual shift to more yellow tones of 2.5Y 4/3 olive brown; 62-71 cm within a few cm, shift to 2.5Y 5/3; 71-80 cm within a few cm, shift to 2.5Y 4/3; 80-87 cm within a few cm, shift to 2.5Y 4/1; At 87 cm, sharp contact to 2.5Y 5/3; 87-111 cm 2.5Y 5/3 but mottling of 2.5Y 4/4 btw 100-104 cm; At 111-111.5 dark brown layer of 2.5Y 3/1; 111.5-120 cm base is 2.5Y 5/3 but with striations of gray tones; 120-131 cm gradual mottling to 5Y 4/1 and GLEY1 4/1 0-20 cm mud not fully GLEY1 4/1; 20-149.5 shift over a few cm to GLEY1 4/; At 63 cm layer of coarser grained sediment and thereafter periodic yellowish brown lenses and layers; At 96 cm core broke to ~102 cm, filled with foam. Note mud "fits" together so this is not a gap.

Latitude: 76.464618 Longitude: 176.723823

Water Depth (m): 977 Length (m): 0.25 Recovery (%): 21

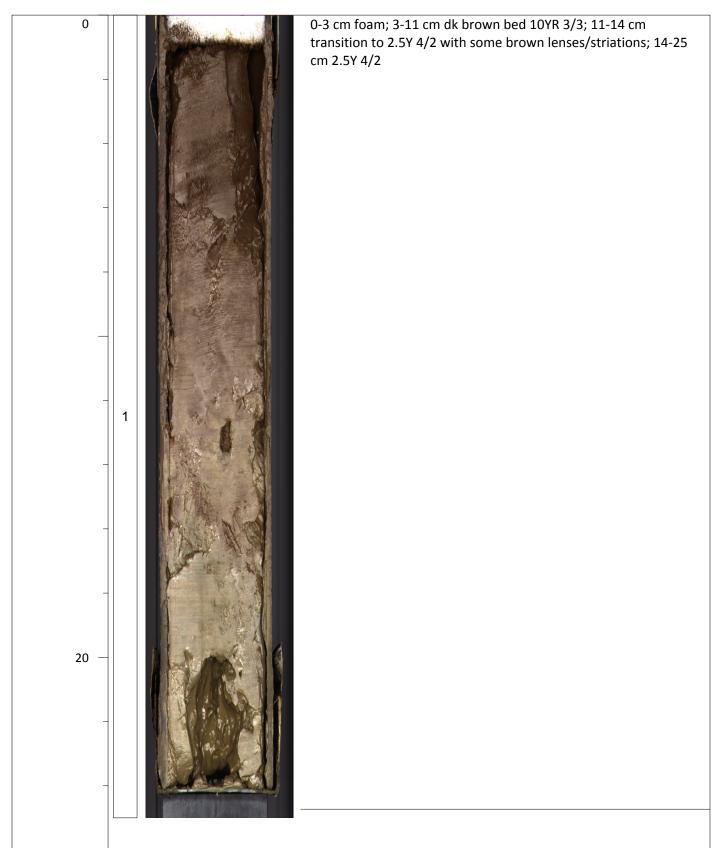
# **SWERUS-L2-17-TWC1**



Undrained Shear Strength (kPa)

0 5 10 20

Depth (cm) Observer: L. Gemery



Latitude: 76.411590 Longitude: 173.788235

Water Depth (m): 351 Length (m): 1.98 Recovery (%): 33

## SWERUS-L2-18-GC1

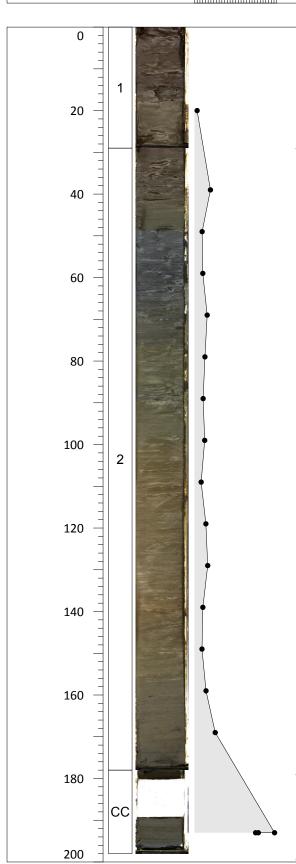


Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

Observer: L. Gemery



0-14.5 cm dk brown bed 10YR 3/3; 14.5-15 cm striated lens of 10YR 2/2 very dk brown; 15-19 cm striations of 10YR 3/3 within 2.5Y 4/2; 19-29 cm mostly 2.5Y 4/2 with less striations of dk brown (10YR 2/2 and 10YR 3/3)

0-13 cm 2.5Y 3/2 very dk grayish brown; 13-20 cm at 13 cm mud becomes stiffer with sharp contact to a combination of GLEY1 3/ and GLEY1 4/ and striations of 2.5Y 4/2. Also at 13 cm, sharp 1 mm layer of coarser grained sed, and again at 18 and perhaps 20 cm; 20-40 cm GLEY1 4/ with some yellowish brown streaks of 2.5Y 5/4- 5/3; 40-50 cm gradual transition from GLEY1 4/ and striations of 2.5Y 4/2; 50-70 cm mostly 2.5Y 4/2 with some gray striations; 70-105 fairly distinct tone change to 2.5Y 5/3; 105-115 cm fairly distinct chroma brightening to 2.5Y 5/4 lt olive brown; 115-128 cm few cm shift to 2.5Y 4/3 olive brown; 128.5-145 cm gradual change over a few centimeters to 2.5Y 4/3- 4/2. At 130 cm, sed looks like if may be coarser and is stiffer/less hydrated

 $0-^7$  cm 2.5Y 3/2; 7-11.5 gap filled with foam, 11/5-17.5 2.5Y 3/2 but with 2.5Y 3/3 and 3/4 striations and a 1 mm layer of coarser grained sediment; 17.5-20 cm distinct and sharp contact color change to GLEY1 4/

Latitude: 77.359052 Longitude: 163.033304

Water Depth (m): 115 Length (m): 0.83 Recovery (%): 14

## SWERUS-L2-20-GC1

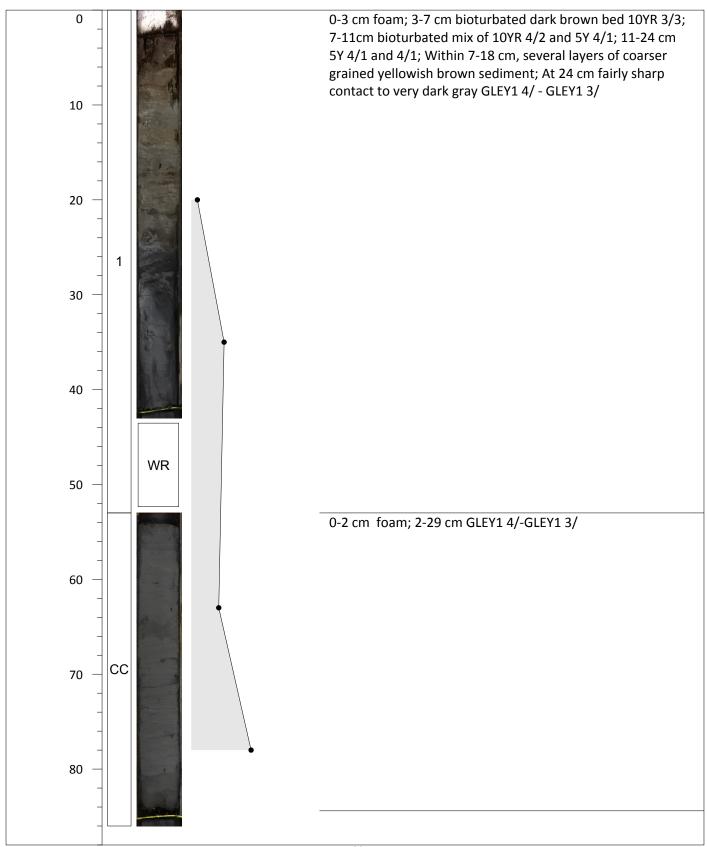


Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

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Latitude: 78.222926 Longitude: 164.461842

Water Depth (m): 364 Length (m): 6.49 Recovery (%): 72

## SWERUS-L2-22-PC1



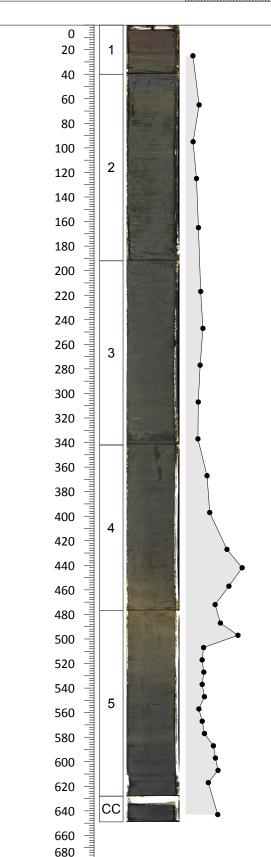
Undrained Shear Strength (kPa)

0 5 10 15 20 20 30

Depth (cm)

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Observer: L. Gemery



0-4 cm foam; 4-17 cm dk brown bed 10YR 3/3; 17-21 cm dk br mutes/transition to 10YR 4/3; 21-24 cm darker stiations of 10YR 3/2; 24-33 cm 2.5Y 4/2; 33-39 cm GLEY1 4/ tones coming into 2.5Y 4/2

0-2 cm GLEY1 4/1 and GLEY1 4/ tones; 2-10 cm GLEY1 4/; 10-151 cm GLEY1 4/1 with yellowish brown faint lenses, sometimes distinct ~1mm layers such as at 32.5, 51.5 (with coarser grains) 97, 97.5, 113, 135, 137 cm

0-150 cm massive GLEY1 4/1 with periodic and very faint yellowish brown lenses

0-84 massive GLEY1 4/1; 84-101 cm color graually transitions to 5Y 4/1; 101-124 cm chroma color gradually transitions to 5Y 4/2; 124-135 cm chroma lightens to a mix of 5Y 4/2 and 5Y 4/3

0-23 cm continue mostly 5Y 4/3; 23-59 cm 5Y 4/2 with GLEY1 4/1 undertones increasing over the interval also faint yellowish lenses/layers, esp. at 59 cm; 59-80 cm muted contact as sediment darkens to more GLEY1 4/ to GLEY1 4/1. Yellowish brown lenses continue as well; At 80 cm sharp contact to GLEY1 4/; 80-107 cm GLEY1 4/ but from 100-107 cm gradual to GLEY1 4/1; 107-108 cm very sharp diagonal contact with color change to GLEY1 3/1 and lithology change with less moisture to "cottage cheese" "mud clumps" appearance; 108-115 GLEY1 3/1; 115-150 cm fairly sharp contact chroma change to GLEY1 3/0-8 cm foam; 8-20 cm GLEY1 3/

Latitude: 78.222926 Longitude: 164.461842

Water Depth (m): 364 Length (m): 0.53 Recovery (%): 44

# **SWERUS-L2-22-TWC1**



Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm) Observer: L. Gemery



0-6 cm foam; 6-34 cm dk brown bed 10YR 3/3; 34-39.5 cm darker striationsof 2.5Y 3/2 as transition to 2.5Y4/2; 34-53 cm 2.5Y 4/2

Latitude: 78.660932 Longitude: 165.015603

Water Depth (m): 508 Length (m): 4.06 Recovery (%): 68

## SWERUS-L2-23-GC1



Observer: L. Gemery

Undrained Shear Strength (kPa)

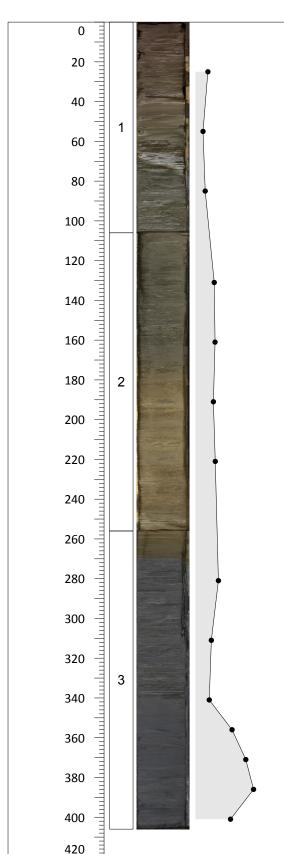
0 5 10 15 20 20 25 30

Depth (cm)

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0-17 cm dk brown bed 10YR 3/3; 17-25 cm gradual transition to 10YR 4/3; 25-56 cm gradual transition to 2.5Y

cm transition to 5Y 5/2



this section characterized by very gradual gradition of contact from tone to tone; 0-60 cm massive 2.5Y 4/2 dk grayish brown; 60-70 cm transition to 2.5Y 5/3 - 2.5Y 4/3; 70-150 cm in some areas color brightens to 2.5Y 5/4 - 2.5Y 4/3 and some "mottles" of 5Y 4/2 interspersed within; 104-105 cm layers of sand(?)/coarser sediment

4/2; 56-63 gradual transition to 2.5Y 4/3; 63-105 over ~ 5

0-2 cm continue 2.5Y 5/4 - 2.5Y 4/3; 2-13.75 cm very interesting many layers of 10YR 4/4 dk yellowish brown and coarser grained layers; At 13.75 cm extremely sharp horizontal contact (last dk yellowish br layer is ~3 mm) to GLEY1 2.5/ - GLEY1 3/; 13.75-150 cm GLEY1 2.5/ - GLEY1 3/; Note 64-67 mud "clumps"/ cottage cheese layer; Note at 107 cm-150 cm lithology with less moisture/more compacted?/finer ?; 119-150 cm some mottling of GLEY1 4/ - GLEY1 3/

Latitude: 78.796922 Longitude: 165.366530

Water Depth (m): 964 Length (m): 4.05 Recovery (%): 68

## SWERUS-L2-24-GC1

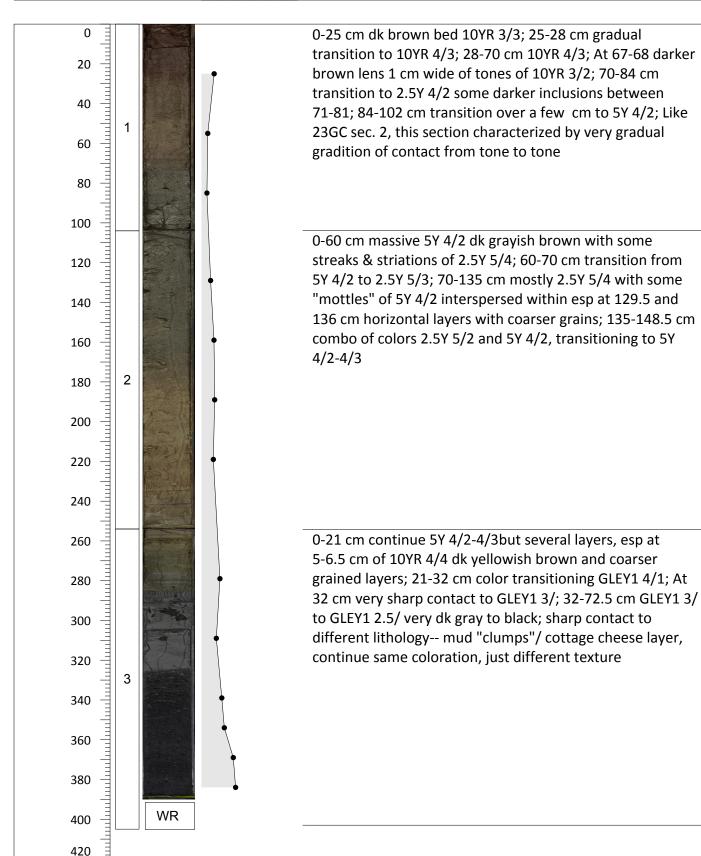


Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

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Latitude: 79.749284 Longitude: 154.400991

Water Depth (m): 395 Length (m): 3.12 Recovery (%): 35

## SWERUS-L2-26-PC1



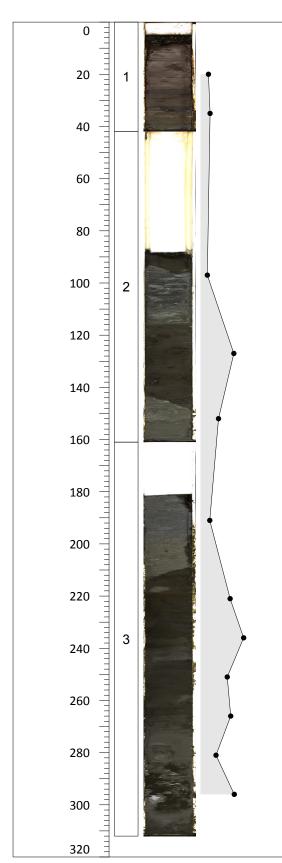
Undrained Shear Strength (kPa)

0 5 10 15 20 20 30

Depth (cm)

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Observer: L. Gemery



0-5 cm foam gap; 5-26 cm 10YR 3/3 with some streaks of lighter beige at 25-26; 26-29 cm uneven contact with very dk brown layer; 29-33 cm 10YR 4/2; 33-35 cm uneven contact lenses of 10YR 3/2; 35-36 cm uneven contact of coarser grained sediment of rust color 10YR 3/6; 36-41.5 cm 2.5Y 4/2 with streaks of 10YR 3/6

0-47 cm gap; 47- $^{\sim}$ 53 cm sand-uneven contact;  $^{\sim}$ 53-74 cm massive mud GLEY1 4/; 74- $^{\sim}$ 102 cm sharp horizontal contact to sand through 102 cm;  $^{\sim}$ 102-118 cm diagonal contact to mud GLEY1 4/1 with faint yellowish-brown lenses

0-20 cm gap; 20-37 cm GLEY1 4/; 37-41 cm gradual mix-color transition from GLEY1 4/ to GLEY1 4/1; 41-50 cm GLEY1 4/1;  $^{\circ}$ 50-149 cm diagonal but sharp contact from mud to sand. Note faint "rust-colored" lenses within sand section

Latitude: 79.749284 Longitude: 154.400991

Water Depth (m): 395 Length (m): 0.44 Recovery (%): 37

## SWERUS-L2-26-TWC1



Undrained Shear Strength (kPa)

0 5 10 15 20 20 30

Depth (cm) Observer: *L. Gemery* 



0-1 cm gap;1-28 cm 10YR 3/3 mud;28-30.5 cm fairly sharp contact darker brown layer 10YR 3/1; 30.5-35 cm 10YR 3/3;35-38 cm darker brown lenses 10YR 3/1;38-39 cm sharp contact layer of coarser sediment 10YR 3/6 "rust" colored;39-44 cm sharp contact 2.5Y 4/2 with streaks of 10YR 3/6

Latitude: 79.924453 Longitude: 154.395755 Water Depth (m): 1143 Length (m): 5.44

Recovery (%): 91

## SWERUS-L2-28-GC1

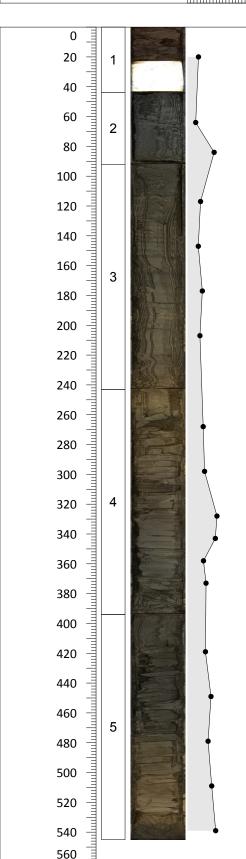


Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

Observer: L. Gemery



0-23 cm 10YR 3/3; At 13 cm diffuse contact to 10YR 3/2 layer; 13-20 cm 10YR 3/2 streaky darker brown layers; 20-23 cm 10YR 3/3-3/2; 23-44 cm foam gap

0-39 cm GLEY1 3/1 massive; 39-47 cm diffuse contact with brightening over 1 cm to 5Y 4/1

0-15 cm continue 5Y 4/1; 15-24 cm mottling of GLEY1 4/ and brightening with yellowish tones to 5Y 4/2; 24-125 cm 5Y 4/2 but mildly streaked with gray tones; At 92-93 cm whitish coarser grained layer; Also at 99-103.5 cm another layer/section of lighter (dolomite-like??) coarser grained; 120-130 cm gradual lightening to 2.5Y 4/3; 130-145 cm 2.5Y 4/3; 145-150 cm 2.5Y 4/4

0-83 cm mostly 2.5Y 4/4 but with streaks of many other colors i.e. grays and browns; 60-70 cm black speckled inclusions; 83-90 cm gradual transition of color to 5Y 4/2; 90-150 cm 5Y 4/2-4/1 but also "streaky" especially note yellowish brown layer 113-114 cm

0-80 cm continue 5Y 4/2-4/1 massive; 80-87 cm gradual transition of color to 2.5Y 4/3; 87-141 cm somewhat stiffer (less moisutre) 2.5Y 4/3 some "streaks" of gray btw 90-105 cm; At 141 cm very sharp contact: lithology ~0.5 cm coarser and color change to darker 2.5Y 4/1; 141-150 cm 2.5Y 4/1

Latitude: 81.299356 Longitude: 141.782550

Water Depth (m): 824 Length (m): 4.67 Recovery (%): 78

## SWERUS-L2-29-GC1

0-11 cm top corner missing, foam but disturbed mud 10YR 3/3

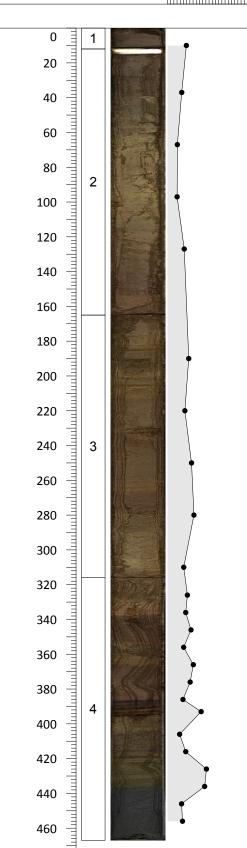


Undrained Shear Strength (kPa)

0 5 10 15 20 20 25 30

Depth (cm)

Observer: L. Gemery



480

0-1.5 cm foam; 1.5-30 cm 10YR 3/3; 30-35 cm gradual transition over a few cm to 2.5Y 4/2; 35-45 cm brightens 2.5Y 4/3; 45-90 cm 2.5Y 4/4; 90-100 cm gradual trans back to slightly deeper chroma 2.5Y 4/3;100-120 cm color moving toward 10YR palette but between 2.5Y 4/2 and reddish tones of 10YR 4/3;120-150 cm 10YR 3/3

0-5 cm continue 10YR 3/3; 5-49 cm a mottled mix of 10YR 3/3 with brighter tones of 10YR 4/3-4/4 some appearance of "layer-like" possibly "sandy" segments at 18, 21-22 and 26-27 cm; At 41 cm thin "sandy?" layer; 49-101 cm fairly massive with gradual transitio to 10YR 4/3; 101-103 cm slight brightening; 103-114 cm 10YR 4/3; 114-146 cm gradual color trans to 2.5Y palette with fewer red tones, nowa mottled mix of tones from 2.5Y 5/3 to 2.5Y 4/3; 146-150 cm few cm trans back to 10YR 4/3

0-13 cm 10YR 4/3; 13-22 cm grad trans to 10YR 5/4 with some black spotted incursions; At 22 cm, sharp contact to 10YR 4/3; 22-40 cm 10YR 4/3 but some mottling of 10YR 5/3 and some black spotted inclusions; 40-50 cm color brightens mostly 10YR 5/3 and 10YR 4/3 with black spotted inclusions prominent between 40-46; also "sandy" wedge btw 44-46 cm; 50-71 cm At 50 cm fairly sharp but uneven color change back to 10YR 4/3; 71-72 cm sharp contact, very dark brown 10YR 3/ layer; 72-73 cm 10YR 4/3; 73-74 more "diffused very dk brown layer; 74-75 cm 10YR 4/3 with diffuse/faint 10 YR 3/; \*At 75 cm extremely sharp contact of color and lithology 1- cm-thick layer of more consolidated but "crumbly" layer of "clay?/mudstone?"IRD" or "diagenetic material"? Color is strong 7.5YR 3/3 rust; 75-80 cm After this 1 cm thick layer, 2 more thinner layers of this rust-colored crumbly layer some very dark brown inclusions at 79-80 cm; At 80 cm, extremely sharp contact to softer texture and lighter-colored mud 2.5Y 5/2-3; 80-90 cm mostly 2.5Y 5/2-3; 90-102 cm 2.5Y 5/2 but with many dark brown/blk-spotted inclusions; 103-116 cm many thin, sharp layers of yellowish-brown 10YR 5/6; 116-122.5 cm transition from 2.5Y 5/2-3 to GLEY1 palette. Many sharp lines/layersof coarser sediment; 122.5 -150 cm very sarp contact to GLEY1 3/ massive.No sedimentary structures, unlike earlier/above

Latitude: 79.914841 Longitude: 143.233458

Water Depth (m): 1120 Length (m): 8.1 Recovery (%): 90

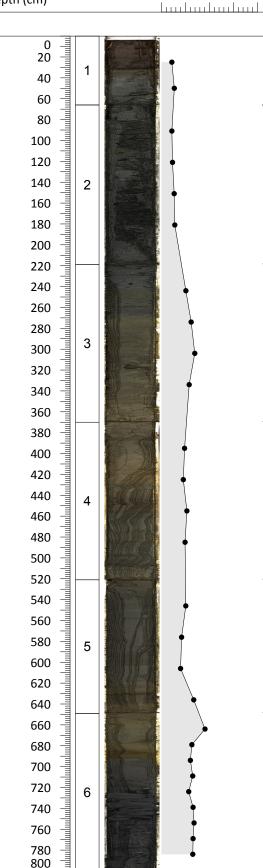
## SWERUS-L2-31-PC1



Undrained Shear Strength (kPa)

Depth (cm)

Observer: *L. Gemery* 



0-4.5 cm foam; 4.5-21 cm 10YR 3/3; 21-22 cm very dk brown layer 10YR 3/3; 22-30 cm streaky mix of 10YR 3/3 and lenses of darker 10YR 3/2 Sec1: 30-31 cm very dk brown layer 10YR 3/1; 31-32.5 10YR 3/3 sandy/coarser grained layer; 32.5-45 cm mixed streaks of yellowish brown 10YR 4/3 and GLEY1; 45-65 cm GLEY1 4/1

0-98 cm GLEY1 4/1; 98-150 cm very gradual tone darkening GLEY3/1, periodic black inclusions from 67-150 (organic material derived from land)

0-47 cm continue GLEY1 3/1 with black inclusions and faint yellow-brown lenses; At 39 cm, 1-mm thick rust colored layer; 47-50 cm uneven and mottled transition to 5Y 4/2; 50-120 cm 5Y 4/2 with lenses of yellowsih brown at 69-71 cm and a lense of darker brown at 77 cm; 120-149.5 cm very gradual color transition to 2.5Y 4/2

0-23 cm continue 2.5Y 4/2 with diffuse streaking of dk brown at 9-11, 15-17 and some lenses thereafter; 23-58 cm color brightens over a few cm to 2.5Y 4/3; 58-85 cm streaks and diffuse "layers/lenses" of many colors within 2.5Y palette with base color of 2.5Y 4/2; 85-87 cm, within 2 cm color changes to 5Y 4/1; 87-114 cm 5Y 4/1 with some yellowish brown streaks, one distinct layer at 114 cm; At 114 cm color darkens with some GLEY1 tones; 114-121 cm GLEY1 tones; 121-150 cm returns to 5Y 4/1

0-98 cm massive 5Y 4/1 except for faint yellowish brown "layers" at 8, 11 & 37 cm; 98-99 cm over 1 cm, color change in adiffuse way to brown/tan of 2.5Y palette, 2.5Y 4/2; 99-108 cm 2.5Y 4/2;108-110 cm dk brown lens 2.5Y 3/2; 110-119 cm few cm transition to 5Y 4/1; 119-127 cm diffuse change over 1 cm to 2.5Y 4/2-3

0-15 cm 2.5Y 4/2-3; 15-25 cm darkens slightly with grayer tones; 25-36 cm 2.5Y 4/2-3; 36-43 cm 1 cm transition to several 10YR 4/6 "rust-colored" layers within 2.5Y 4/2-3; At 43 cm, sharp contact to GLEY1 4/; 43-~77 cm GLEY1 4/ with periodic black inclusions; ~77-150 cm GLEY1 4/ dominated by black-speckled inclusions

Latitude: 79.914841 Longitude: 143.233458 Water Depth (m): 1120

Length (m): 0.48 Recovery (%): 40

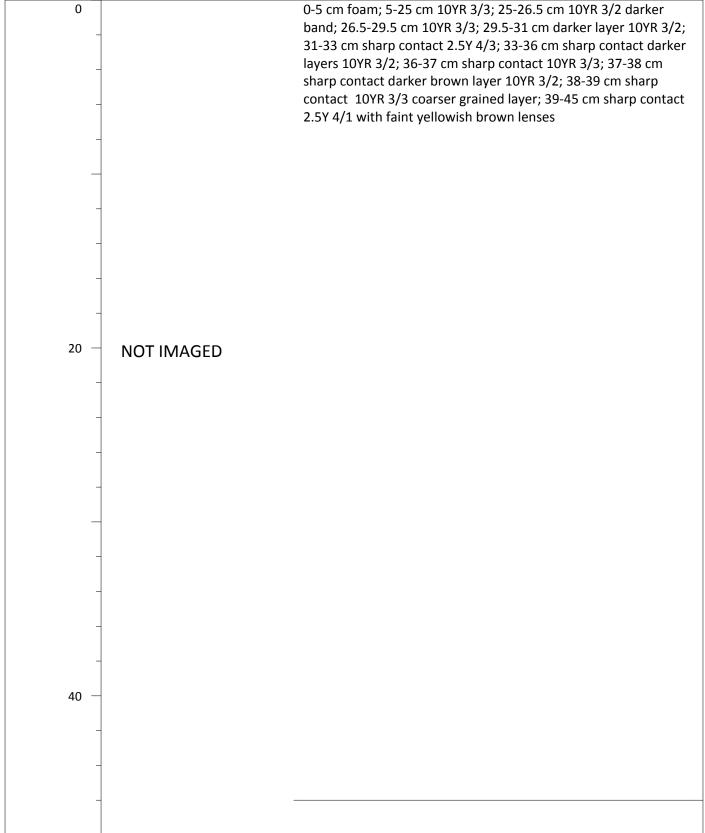
## SWERUS-L2-31-TWC1



Undrained Shear Strength (kPa)

15 - 15 - 20

Depth (cm) Observer: L. Gemery



Latitude: 85.152613 Longitude: 151.664309

Water Depth (m): 828 Length (m): 2.57 Recovery (%): 43

#### SWERUS-L2-32-GC2



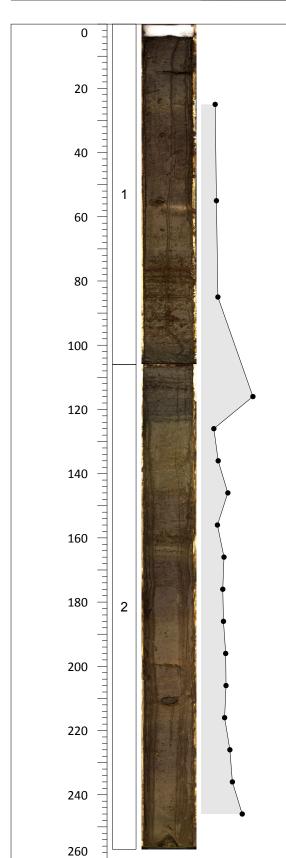
Undrained Shear Strength (kPa)

0 10 15 20 25

Depth (cm)

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Observer: L. Gemery



0-5 cm gap; 5-23 cm 10YR 3/3; 20-27 cm some mottling of 10YR 3/2; 23-27 cm color brightens 2.5Y 4/4; 27-29 cm gradual transition to 10YR 4/3; 29-56 cm 10YR 4/3; 56-57 cm; 10YR 6/3 uneven contact layer of very light fine? sediment; 57-75.5 cm uneven contact to 2.5Y 4/4; 75.5-76.5 cm sharp layer of coarser-grained sediment "rust-colored" 10YR 4/6 and texture looks "sandy" from this point to 98.5; 76.5-98.5 Within 2.5Y 4/4 are many 1-2 mm layers of coarser-grained "rust" colored sediment, at 78,79,83,84,85,91,94-95, 97, 98.5. This section looks "wetter"; 98.5-104 cm fairly sharp contact to 2.5Y 4/3 with faint darker inclusions

0-1.5 cm gap; 1.5-17 cm lightly mottled with 2.5Y 4/3 and 2.5Y 4/1, sediment becomes more 2.5Y 4/1 from 12-17cm. Also several thin dker brown coarser-grained layers. At 17-18 cm very sharp contact with 2 sandy ~1mm layers; 17-38 cm 2.5Y 5/4 sediment looks "wetter"; 38-57 cm very mottled section with 10YR 4/2-4/3; 57-60 cm 3 thin horizontal layers of darker 2.5Y 4/2 within 2.5Y 5/4; 60-63 cm gradual color transition to 10YR 4/3; 63-78.5 cm 10YR 4/3 with "worm-like" pattern of mottling of lighter 10YR 5/3. At 78.5 cm fairly sharp horizontal contact to 2.5Y 4/4; 78.5-92 cm 2.5Y 4/4; 92-94 cm uneven contact brightening to reddish hue 10YR 5/4; 93-94 cm diagnonal sandy lens; 94-113 cm base color of 2.5Y 4/4 with mottling of lighter hues; 104-106 cm drop stone imprint (stone in archive section); 113-127 cm very gradual chroma darkening of sediment to 10YR 4/3 with mottling of lighter hues; 127-150 cm gradual color change back to 2.5Y 4/4 with very faint grayish lenses from 135-141 cm

Latitude: 84.282038 Longitude: 148.646753

Water Depth (m): 888 Length (m): 6.25 Recovery (%): 69

## SWERUS-L2-33-PC1



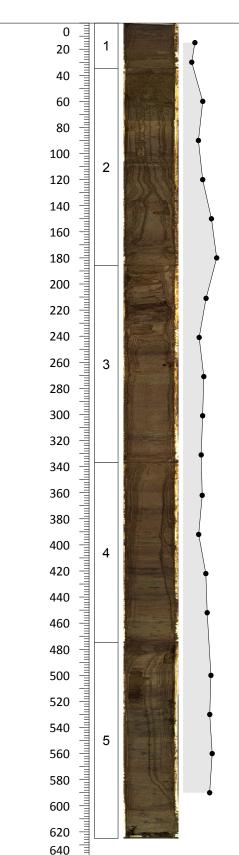
Undrained Shear Strength (kPa)

0 5 10 15 20 25

Depth (cm)

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Observer: L. Gemery



0-1 cm gap; this section's mud color is streaky thorughout with many colors of the 10YR and 2.5Y palettes;1-8 cm dark brown section btw 10YR 3/2-3/3;8-9 cm "blotch" of light/ whitish 10YR 6/3, again at 10-11 cm; 8-20 cm gradual transition to 10YR 3/3; 20-29 cm 2.5Y 4/4 "looks sandier" than earlier section; 29-31 cm slightly brighter lens; 31-35 cm 2.5Y 4/4

0-40 cm cont' 2.5Y 4/4 with grayish streaks; At 4-5 cm darker brown 10YR 3/3 streaky layer; 26-27 cm drop stone imprint (stone in archive half); At 40 cm, very sharp horizontal contact to orangish color; 40-51 cm 10YR 5/4 yellowish brown wth some grayspecks and streaks; 51-52 cm transition to 10YR 4/4; 52-150 cm this section is mostly 2.5Y 4/4 and 10YR 4/4with streaks of darker brown and reddish tones, No sharp contacts only gradiations, darker, uneven sections at 65-88, 75-78, 101.5-102 126-135 cm. Note 140-141 cm coarser grained layer 0-25 cm mostly 2.5Y 4/4 and 10YR 4/6, appears more sandy 0-6 cm; 25-30 cm speckling and streaking of 10YR 3/4 increases; 30-40 cm mostly 10YR 3/6 dksih yellowish brown; 40-42 cm uneven lenses of 10YR 3/2 bfore transition to 2.5Y 4/4 with brown speckles of 10YR 4/6; 42-65 cm 2.5Y 4/4 with brown "pepper-sized" speckles; 65-69 cm darker reddish-brown lenses 10YR 3/6 within; 69-150 cm base color is 2.5Y 4/4 and 10YR 4/6 with 10YR 4/4 brown speckles throughout and streaks and blotches of gray and brown. Note lenses of gray at 128-131 and dk brown lens at 130-133

0-34 cm con't same description except pepper-sized specs increase in size and are not as prominent; slight darker lenses 21-22.5; 34-40 cm brown lens 10YR 3/4 with sprinkling of very dkbrown or black inclusions;40-75 cm same descript as 0-34 cm but include moredk br/blk inclusions and lenses; At 75-90 cm subtle color transition to tan with very dk br/blk lenses and larger splotches more prominent at 80-89 cm; 90-103 cm subtle co,or transition to 2.5Y 4/3 with dk br/blk inclusions; 103-118 cm reddish hues reemerge 10YR 4/6; 118-133 gradual color shift to 2.5Y 4/3 and dk br/blk inclusions remain; 133-137 cm diffuse contact and color shift to 10YR 4/4

0-8 cm continue 10YR 4/4 with some dk br/blk inclusions 5-7 cm; 8-92 cm base color is mostly 2.5Y 4/4 and some 10YR hues and mottling of dk br/blk and inclusions more dominant, ranging from "spec"s to "smears"; At 92-100 cm faint lens from 10YR palette (10YR 4/6); 100-129 cm continue base of 2.5Y 4/4 with dk br/blk inclusions less inclusions less prominent, except strong lens at 125-129; 129-130 cm layer of coarser-grained sediment, and lens at 131 cm 130-149 cm fairly sharp contact to 2.5Y 4/3 and dk br/blk "smears" and streaks

Latitude: 84.282038 Longitude: 148.646753

Water Depth (m): 888 Length (m): 0.37 Recovery (%): 31

# **SWERUS-L2-33-TWC1**



Undrained Shear Strength (kPa)

0 5 10 15 20 25

Depth (cm) Observer: *L. Gemery* 



0-3 cm gap; 3-15 cm 10YR 3/4; 15-18 cm tan-colored "blotches"/ inclusions 10YR 5/4, color transitions to 10YR 3/318-29 cm 10YR 4/329-30 cm faint contact to 2.5Y 4/3 30-33.5 cm 2.5Y 4/3 with one blk spotted inclusions