

APPENDIX F

PROFILE DESCRIPTIONS

Causeway Bay:

CW-3A

- Oi 0-9 cm. Brown (7.5YR 3/4) fibric clear boundary. Root mat and leaf litter.
- A 9-17 cm. Black (10YR 2/1) sandy loam. Weak fine granular structure. Clear boundary.
- E 17-80 cm. Very Dark Gray (10YR 3/1) sand. Single grain structure. Gradual boundary.
- Bh 80-100cm. Very dark brown (7.5YR 2.5/2) sandy loam. Single grain structure.

CW-3B

- Oi 0-9 cm. Strong brown (7.5YR 4/6) fibric clear boundary. Root mat and leaf litter.
- A 9-17 cm. Black (N 2.5/0) sandy loam. Weak medium granular structure. Clear boundary.
- E 17-32 cm. Dark Gray (10YR 4/1) sand. Single grain structure. Clear boundary.
- Bh 32-66cm. Black (10YR 2/1) sandy loam. Weak medium sub-angular blocky structure.
- E 66-87 cm. Very dark gray (10YR 3/1) loamy sand. Single grain structure. Gradual boundary.
- Bh 87-100 cm. Very dark brown (10YR 2/2) loamy sand. Single grain structure.

CW-4

- Oi 0-15 cm. Very dark brown (10YR 2/1) hemic muck. Weak medium platy structure. Clear boundary. Root mat.
- Oa 15-26 cm. Black (N 2.5/0) mucky loam. Weak coarse granular structure. Clear boundary.
- OC 26-63 cm. Black (N 2.5/0) mucky sandy loam. Massive structure. Gradual boundary.
- C 63-100 cm. Very dark grayish brown (10 YR 3/2) sand. Single grain structure.

CW-5

- Oi 0-15 cm. Very dark brown (10YR 2/1) hemic muck. Weak medium platy structure. Clear boundary. Root mat.
- Oa1 15-28 cm. Black (N 2.5/0) sapric muck. Massive structure. Clear boundary.
- Oa2 28-38 cm. Black (N 2.5/0) mucky loam. Massive structure. Gradual boundary.
- OC 38-70 cm. Black (N 2.5/0) mucky sandy loam. Massive structure. Gradual boundary.
- 2C 70-124 cm. Very dark brown (10 YR 2/2) sand and 20% very dark grayish brown (10 YR 3/2) sand . Massive structure.

CW-7

- Oi 0-16 cm. Very dark brown (10YR 2/1) hemic muck. Weak medium platy structure. Clear boundary. Root mat.
- Oa1 16-39 cm. Black (N 2.5/0) sapric muck. Massive structure. Clear boundary.
- Oa2 39-57 cm. Black (N 2.5/0) sapric muck. Massive structure. Gradual boundary.
- OC 57-78 cm. Black (10 YR 3/1) mucky sand. Massive structure.

CW-8

- Oi 0-13 cm. Dark reddish brown (5YR 2.5/2) hemic muck. Weak medium platy structure. Clear boundary. Root mat.
- Oe 13-30 cm. Black (N2.5/0) sapric muck. Strong fine granular structure. Gradual boundary. Organic bodies. Many roots.
- Oa1 30-78 cm. Black (N 2.5/0) sapric muck. Massive structure. Clear boundary.
- Oa2 78-110 cm. Black (10YR 2/1) mucky loamy sand. Massive structure. Clear boundary.
- OC 110-122 cm. Black (10YR 2/1) loam. Massive structure. Clear boundary.
- 2C 122-128 cm. Black (10 YR 2/1) loamy sand. Massive structure.

CW-11

- Oi 0-12 cm. Dark brown (7.5YR 3/2) fibric and hemic muck. Clear boundary. Root mat.
 - Oa1 12-40 cm. Black (N 2.5/0) sapric muck. Massive structure. Clear boundary.
 - Oa2 40-107 cm. Black (N 2.5/0) sapric muck. Massive structure. Gradual boundary.
 - OC 107-161 cm. Very dark brown (10 YR 2/2) mucky loam. Massive structure. Abrupt boundary.
 - 2C 161-176 cm. Dark yellowish brown (10YR 4/4) sandy loam. Single grain structure.
- Note: Roots and debris through whole profile.

CW-13

- Oi 0-19 cm. Dark reddish brown (5YR 2.5/2) fibric to hemic muck. Weak medium platy structure. Gradual boundary. Root mat.
 - Oa1 19-50 cm. Black (N2.5/0) sapric muck. Massive structure. Gradual boundary. Organic bodies. Many roots.
 - Oa2 50-107 cm. Black (N 2.5/0) sapric muck. Massive structure. Clear boundary.
 - Oa3 107-140 cm. Very dark brown (10YR 2/2) sapric muck. Massive structure. Gradual boundary.
 - OC 140-170 cm. Very dark brown (10YR 2/2) mucky loam. Massive structure. Gradual boundary.
 - 2C 170-200 cm. Dark yellowish brown (10 YR 4/4) loam. Massive structure.
- Note: Roots and debris through whole profile.

Tatum Millpond Bay:

TM-1

- A 0-18 cm. Dark yellowish brown (10YR 3/4) and gray (2.5Y 6/1) sand. Single grain structure. Clear boundary.
- E 18-42 cm. Gray (2.5Y 6/1) sand. Single grain structure. Gradual boundary.
- E/B 42-68 cm. Light yellowish brown (2.5Y 6/4) sand. Single grain structure. Gradual boundary.
- Bt 68-90 cm. Olive brown (2.5Y 4/4) loamy sand. Single grain structure.

TM-2

- Oa 0-10 cm. Very dark brown (7.5YR 2.5/2) hemic muck. Weak medium platy structure. Clear boundary. Root mat
- O/A 10-20 cm. Black (N 2.5/0) sapric muck. Weak medium sub-angular blocky structure. Clear boundary.
- E 20-48 cm. Dark gray (10YR4/1) loamy sand. Single grain structure. Gradual boundary.
- Bt 48-90 cm. Very dark brown (10YR 2/2) sandy loam. Weak medium sub-angular blocky structure.

TM-3

- Oi 0-20 cm. Dark reddish brown (5YR 2.5/2) hemic muck. Weak coarse platy structure. Clear boundary. Root mat.
- Oa 20-36 cm. Black (10YR 2/1) sapric muck. Massive structure. Gradual boundary.
- OC 36-75 cm. Black (10YR 2/1) mucky sandy loam. Massive structure. Gradual boundary.
- C 75-100 cm. Very dark brown (10 YR 3/1) loamy sand. Single grain structure.

TM-4

- Oi 0-20 cm. Dark reddish brown (5YR 2.5/2) hemic muck. Weak coarse platy structure. Clear boundary. Root mat.
- Oa1 20-38 cm. Very dark brown (10YR 2/2) sapric muck. Massive structure. Clear boundary.
- Oa2 38-56 cm. Very dark brown (10YR 2/2) mucky sandy loam. Massive structure. Clear boundary.
- OC 56-85 cm. Black (10 YR 2/1) sandy loam. Massive. Clear boundary.
- 2C 85-120 cm Grayish brown (10YR 5/2) loamy sand. Single grain structure.

TM-6

- Oi 0-20 cm. Black (10YR 2/1) hemic muck. Weak coarse platy structure. Gradual boundary. Root mat.

- Oe 20-40 cm. Black (10YR 2/1) sapric muck. Massive structure. Gradual boundary. Few organic bodies greater than 0.5 cm.
- Oa 40-65 cm. Black (10YR 2/1) sapric muck. Massive structure. Clear boundary.
- OC 65-112 cm. Black (10YR 2/1) mucky loam. Massive structure. Gradual boundary.
- 2C1 112-146 cm. Black (10YR 2/1) sandy clay loam. Massive structure. Clear boundary.
- 2C2 146-180 cm. Grayish brown (10 YR 5/2) and gray (10YR5/1) sandy clay loam. Massive structure.

TM-8

- Oi 0-30 cm. Very dark brown (7.5YR 2.5/2) hemic muck. Weak coarse platy structure. Gradual boundary. Root mat.
- Oe 30-75 cm. Black (10YR 2/1) sapric muck. Moderate medium granular structure. Gradual boundary. Few organic bodies greater than 0.5 cm.
- Oa 75-100 cm. Black (10YR 2/1) sapric muck. Massive structure. Clear boundary.
- 2C1 100-135 cm. Very dark brown (10YR 2/2) sandy loam. Massive structure. Gradual boundary.
- 2C2 135-150 cm. Black (10YR 2/1) sandy clay loam. Massive structure. Clear boundary.
- 2C3 150-200 cm. Dark gray (10YR 4/1) sandy loam. Massive structure.

TM-13

- Oi 0-20 cm. Black (10YR 2/1) fibric to hemic muck. Massive structure. Gradual boundary. Root mat.
- Oe 20-50 cm. Very dark brown (7.5 YR 2.5/2) hemic muck. Massive structure. Gradual boundary. Organic bodies 0.5-1 cm. Many roots.
- Oa1 50-82 cm. Very dark brown (10YR 2/2) sapric muck. Massive structure. Clear boundary.
- Oa2 82-107 cm. Black (10YR 2/1) sapric muck. Massive structure. Gradual boundary.
- Oa3 107-145 cm. Black (10YR 2/1) sapric muck. Massive structure. Gradual boundary.
- OC 145-170 cm. Black (10YR 2/1) sapric muck with <2% sand grains. Massive structure. Abrupt boundary.
- 2C 170-190 cm. Very dark brown (10 YR 2/2) sand. Single grain structure.

TM-16

- Oi 0-16 cm. Very dark brown (10 YR 2/2) fibric to hemic muck. Weak coarse platy structure. Gradual boundary. Root mat.
- Oe 16-69 cm. Very dark brown (10 YR 2/2) hemic muck. Massive structure. Distinct boundary. Organic bodies < 0.5 cm. Many roots.
- Oa1 69-102 cm. Very dark brown (7.5YR 2.5/2) sapric muck. Massive structure. Gradual boundary. Organic bodies < 0.5 cm
- Oa2 102-130 cm. Very dark brown (10 YR 2/2) sapric muck. Massive structure. Distinct boundary.
- Oa3 130-180cm. Very dark brown (10 YR 2/2) sapric muck. Massive structure.

Charlie Long Millpond Bay:

CL-3

- Oi 0-5 cm. Dark reddish brown (5YR 3/4) fibric root mat. Weak medium platy structure. Clear boundary.
- A 5-16 cm. Black (10YR 2/1) sandy loam. Weak fine granular structure. Abrupt boundary.
- E 16-38 cm. Gray (10YR 6/1) sand. Single grain structure. Clear boundary.
- Bh1 38-68 cm. Very dark gray (10YR3/1) loamy sand. Weak coarse sub-angular blocky structure. Gradual boundary.
- Bh2 68-100 cm. Very dark grayish brown (10YR3/2) loamy sand. Weak coarse sub-angular blocky structure.

CL-2

- Oi 0-5 cm. Very dark brown (7.5YR 2.5/3) fibric root mat. Weak medium platy structure. Clear boundary.
- A 5-20 cm. Black (10YR 2/1) sandy loam. Weak fine granular structure. Abrupt boundary.
- E 20-41cm. Light gray (10YR 7/1) sand. Single grain structure. Clear boundary.
- Bh1 41-74 cm. Very dark gray (10YR3/1) loamy sand. Weak medium sub-angular blocky structure. Gradual boundary.
- Bh2 74-105 cm. Very dark brown (10YR 2/2) sandy loam. Weak coarse sub-angular blocky structure.

CL-4B

- Oi 0-15 cm. Very dark brown (7.5YR 2.5/3) fibric root mat. Weak medium platy structure. Clear boundary.
- A 15-28 cm. Black (10YR 2/1) sandy loam. Weak fine granular structure. Clear boundary.
- E 28-55cm. Gray (10YR 5/1) sand. Single grain structure. Clear boundary.
- Bh1 55-64 cm. Very dark brown (10YR 2/2) loamy sand. Massive structure. Gradual boundary.
- Bh2 64-100 cm. Very dark gray (10YR 3/1) sandy loam. Massive structure.

CL-5

- Oi 0-15 cm. Dark reddish brown (5YR 3/4) fibric root mat. Weak medium platy structure. Clear boundary.
- Oa1 15-35 cm. Black (N 2.5/0) mucky sandy loam. Weak medium sub-angular blocky structure. Gradual boundary.
- Oa2 35-46cm. Black (N 2.5/0) mucky sandy loam. Weak medium sub-angular blocky structure. Clear boundary.

- C1 46-75 cm. Very dark gray (10YR3/1) loamy sand. Massive structure. Gradual boundary.
- C2 75-115 cm. Very dark brown (10YR 2/2) sandy loam. Massive structure.

CL-6

- Oi 0-12 cm. Dark reddish brown (5YR 3/4) fibric root mat. Weak medium platy structure. Clear boundary.
- Oa1 12-32 cm. Black (10YR 2/1) sapric muck. Weak medium sub-angular blocky structure. Clear boundary.
- Oa2 32-82 cm. Black (N 2.5/0) mucky sandy loam. Massive structure. Clear boundary.
- C1 82-115 cm. Very dark brown (10YR 2/2) sandy clay loam. Massive structure. Gradual boundary.
- C2 115-136 cm. Black (10YR 2/1) sandy clay loam. Massive structure.

CL-7

- Oi 0-18 cm. Dark reddish brown (2.5YR 2.5/3) fibric root mat. Weak medium platy structure. Clear boundary.
- Oa1 18-50 cm. Black (N 2.5/0) sapric muck. Moderate coarse sub-angular blocky structure. Clear boundary.
- Oa2 50-85 cm. Black (N 2.5/0) mucky sandy loam. Massive structure. Gradual boundary.
- Oa3 85-108 cm. Black (N 2.5/0) mucky coarse sandy loam. Massive structure. Gradual boundary.
- C 108-135 cm. Very dark brown (10YR 2/2) sandy clay loam. Massive structure.

CL-11

- Oi 0-15 cm. Dark brown (7.5YR 2.5/3) fibric root mat. Weak medium platy structure. Clear boundary.
- Oa1 15-40 cm. Black (N 2.5/0) sapric muck. Weak coarse sub-angular blocky structure. Clear boundary.
- Oa2 40-80 cm. Black (N 2.5/0) mucky sandy loam. Massive structure. Distinct boundary. Layer <10 cm thick had more sand than rest of the horizon.
- Oa3 80-120 cm. Black (N 2.5/0) mucky coarse sandy loam. Massive structure. Clear boundary.
- C1 120-137 cm. Very dark brown (7.5YR 2.5/2) sandy clay loam. Massive structure. Clear boundary.
- C2 137-150 cm. Black (10YR 2/1) sandy loam. Massive structure.

CL-13

- Oi 0-16 cm. Dark brown (7.5YR 3/4) fibric root mat. Weak medium platy structure. Clear boundary.

- Oa1 16-43 cm. Black (N 2.5/0) sapric muck. Weak coarse sub-angular blocky structure. Gradual boundary.
- Oa2 43-100 cm. Black (N 2.5/0) mucky sandy loam. Massive structure. Clear boundary.
- C1 100-150 cm. Very dark grayish brown (10YR 3/2) sandy clay loam. Massive structure.

Juniper Bay:

JB02D Core 1:

- Oa 0-15 cm. Black (N 2.5/0) sapric muck with 95%+ organic coatings. Moderate fine (2mm) granular structure. Distinct boundary <2 cm.
- OA1 15-35 cm. Black (10 YR 2/1) sapric muck. Moderate medium (10mm) prismatic structure. Clear boundary <5 cm. Many dead roots.
- OA2 35-56 cm. Black (10 YR 2/1) sapric muck. Moderate medium (10mm) prismatic structure. Distinct boundary <2 cm. Many dead roots.
- BC 56-78 cm. Yellowish Brown (10YR 5/4) loamy sand with 40% white sand (10YR 8/1) in root channels. Distinct boundary <2 cm. Single grain structure.
- C1 78-97 cm. Light reddish Brown (2.5 6/4) loamy sand with 40% white sand (2.5Y 8/1) in root channels. Clear boundary <2 cm. Single grain structure.
- C2 97-100+ cm. Light reddish Brown (2.5 6/4) loamy sand and white sand (2.5Y 8/1). Single grain structure.

Note: All horizons below contained dead roots 10 cm or larger.

JB02C Core 1:

- Oa 0-13 cm. Black (N 2.5/0) sapric muck with 95%+ organic coatings. Moderate fine (1mm) granular structure. Distinct boundary <2 cm.
- OA 13-40 cm. Black (10 YR 2/1) sapric muck. Massive structure. Clear boundary <5 cm. Less 2% wood fragments.
- Bw 40-48 cm. Dark brown (10 YR 3/3) sandy loam. Massive structure. Distinct boundary <2 cm.
- BC 48-68 cm. Brownish yellow (10YR 6/6) loamy sand with 30% very pale brown sand (10YR 8/2) in root channels. Distinct boundary <2 cm. Massive structure.
- C1 68-84 cm. Dark yellowish Brown (10YR 3/4) sandy loam with 2% light gray sand (10YR 7/1) in root channels. Distinct boundary <2 cm. Massive structure. Sulfer smell present.
- C2 84-100+ cm. Light reddish Brown (2.5 6/4) loamy sand and white sand (2.5Y 8/1). Massive structure. Sulfer smell present.

JB01C Core 2:

- Ap 0-4cm. Black (N 2.5/0) mucky sandy loam with 95% organic coatings. Weak fine (1mm) granular structure. Distinct boundary <2 cm.
- OA 4-18 cm. Black (N 2.5/0) sapric muck. Weak medium (10mm) sub-angular blocky structure. Clear wavy boundary <5 cm. 95% organic coatings.

- A 18-32 cm. Reddish black (2.5YR 2.5/1) sandy loam with 75% organic sand coatings and 20% lenses of gray sand (2.5Y 6/1). Weak medium (20mm) sub-angular blocky structure. Distinct wavy boundary <2 cm.
- Bhir 32-43 cm. Very dark gray (10YR 3/1) loamy sand with 30% lenses of gray sand (2.5Y 6/1). Clear wavy boundary <10 cm. Weak coarse (30mm) sub-angular blocky structure.
- Bir 43-66 cm. Brown (10YR 4/3) loamy sand with 20% light gray sand lenses (10YR 7/1) and 6% dark brown. Clear boundary <10 cm. Massive structure.
- C1 66-86 cm. Yellowish Brown (10YR 5/4) loamy sand and white sand (10YR 6/4) in horizontal layers. Massive structure. Sulfer smell present.
- C2 86-100 cm. Light yellowish brown (10YR 6/4) loamy sand and 10% light gray sand (10YR 7/2). Single grain structure. Sulfer smell present

JB01D Core 2:

- Ap 0-5cm. Black (N 2.5/0) mucky sandy loam with 95% organic sand coatings. Moderate fine (1mm) granular structure. Distinct boundary <2 cm.
- Oa 5-19 cm. Black (N 2.5/0) mucky sandy loam with 95% organic sand coatings. Weak medium (10mm) sub-angular blocky structure. Distinct boundary <2 cm.
- OA 19-38 cm. Very dark brown (10YR 2/2) mucky sandy loam. Moderate medium to coarse (20-30mm) sub-angular blocky structure. Distinct wavy boundary <2 cm. 25% A horizon material present.
- Bir1 38-51 cm. Very dark brown (10YR 2/2) sandy loam with 25% white sand (10YR 2/1) in the root channels and 25% A horizon material. Distinct wavy boundary <10 cm. Weak coarse (30mm) sub-angular blocky structure.
- Bir2 51-67 cm. Yellowish brown (10YR /6) loamy sand with 10% very pale brown sand lenses (10YR 8/2). Clear boundary 10 cm. Weak coarse (30-50mm) sub-angular blocky structure.
- BC 67-80 cm. Brownish yellow (10YR 6/6) loamy sand and with 10% very pale brown sand lenses (10YR 8/2). Single grained structure. Gradual >12 cm boundary.
- C 80-100 cm. Brownish yellow (10YR 6/6) loamy sand and 2% very pale brown sand (10YR 8/2). Single grain structure.

JB03C Core 3:

- Ap 0-12cm. Black (N 2.5/0) loamy sand with 90% organic sand coatings. Moderate fine (1-5mm) granular structure. Clear boundary.
- E 12-26cm. Light gray (5YR 7/1) loamy sand with 25% Ap material in root channels. Single grain structure. Clear boundary.
- Bhir 26-42cm. Very dark gray (5YR 3/1) loamy sand with 20% gray (7.5YR 5/1) sand in root channels and cracks (1cm). Massive structure. Gradual boundary. Black organic material appears to be in layers 1cm wide and continue laterally and are separated by light brown to gray material from layers above and below.
- Bir 42-61cm. Pale brown (10YR 6/3) loamy sand in alternating layers of a light gray (10YR 7/2) loamy sand 1cm thick. Single grain structure. Gradual boundary.

- B'hir 61-75 cm. Grayish brown (10YR 5/2) loamy sand with black accumulation of organic matter 2-8 cm thick at the top of the horizon diffusing to matrix color. Single grain structure. Clear boundary.
- C 75-85+cm. Grayish brown (10YR 5/2) and very dark gray (10YR 3/1) loamy sand, 50% each color in horizontal layers 2cm wide. Single grain structure. Sulfer smell present.

JB03D Core 3:

- Ap 0-15cm. Black (N 2.5/0) loamy sand with 80% organic sand coatings. Moderate fine (2mm) granular structure. Clear boundary.
- A/E 15-22cm. Black (N 2.5/0) and light gray (2.5Y 7/1) loamy sand. Combination of Ap and 25% underlying E horizons. Weak fine (2mm) subangular blocky structure. Clear boundary.
- E 22-40cm. Light gray (2Y 7/1) loamy sand. Single grain structure. 25% Ap material in root channels. Clear boundary.
- Bhir1 40-54cm. Very dark grayish brown (10YR 3/2) loamy sand with 15% gray E material in root channels (1cm). Top of horizon is black (10YR 2/1) and grades in to bands 2cm in thickness. Massive structure. Clear boundary.
- Bhir2 54-70cm. Dark brown (10YR 3/3) loamy sand with black (10YR 2/1) bands 5cm appart. Massive structure. Clear boundary.
- Bhir3 70-84cm. Dark brown (10YR 3/3) loamy sand with 25% black (N 2.5/0) bodies of cylindrical nodules of weakly cemented loamy sand 15 cm apart. Massive structure. Clear boundary.
- Bhir4 84-100cm. Very dark brown (10YR 2/2) loamy sand.. Massive structure. Sulfer smell present.

JB04C Core 4:

- Oap 0-25cm. Black (10YR 2/1) sapric muck. Moderate fine (2mm) granular structure. Abrupt boundary.
- OA1 25-47cm. Very dark brown (10YR 2/2) mucky silt loam. Weak coarse (5cm) prismatic structure. 20% wood fragments up to 5cm in size. Clear boundary.
- OA2 47-57cm. Very dark brown (10YR 2/2) mucky silt loam. Weak coarse (5cm) prismatic structure. 25% wood fragments up to 5cm in size. Gradual boundary.
- BC 57-85cm. Yellowish brown (10YR 5/4) fine sandy loam. Massive structure. Abrupt boundary.
- 2C1 85-100cm. Pale brown (10YR 6/3) loamy sandy with 2 % white (10YR 8/1) sand around root channels. Single grain structure. Gradual boundary. 10% wood fragments.
- 2C2 100-112+cm. Very dark brown (10YR 2/2) loamy sand with 30% white (10YR 8/1) sand. Single grain structure. 10% wood fragments.

JB04D Core 4:

- Oap 0-8cm. Black (N 2.5/0) sapric muck with 95% organic coated sand grains. Moderate fine (2mm) granular to moderate medium (2cm) sub-angular blocky structure. Gradual boundary.
- OA 8-24cm. Very dark grayish brown (10YR 3/2) mucky silt loam. Moderate medium (2cm) sub-angular blocky structure. Gradual boundary.
- OA/Bw 24-34cm. Very dark grayish brown (10YR 3/2) to dark yellowish brown (10YR 4/4) mucky silt loam to fine sandy loam. 30% very pale brown (10YR 8/4) redox features. Weak coarse (5cm) prismatic structure. Clear boundary.
- Bw 34-51cm. Brownish yellow (10YR 6/6) fine sandy loam. Weak very coarse (10cm) prismatic structure. Clear boundary.
- BC 51-64cm. Yellowish brown (10YR 5/4) sandy loam. Massive structure. Clear boundary. 5% Wood fragments.
- 2C 64-74cm. Light olive brown (2.5Y 5/4) and light yellowish brown (2.5Y 6/3) loamy sand. Single grain structure. Abrupt boundary. Thickness varies from 5 to 20 cm.
- 3Oab 74-90cm. Very dark gray (10YR 3/1) mucky sandy loam. Weak coarse (2-5cm) sub-angular blocky structure. Abrupt boundary. Woody debris through out horizon.
- 4C 90-100+cm. Light brownish gray (10YR 6/2) loamy sand. Single grain structure.

JB05C Core 5:

- Ap 0-10cm. Black (10YR 2/1) loam. Weak coarse (1cm) sub-angular blocky to moderate fine (2mm) granular structure. Clear boundary.
- OA1 10-20cm. Black (10YR 2/1) mucky silt loam. 20% organic bodies up to 5cm in diameter. Weak fine (2mm) granular structure. Clear boundary.
- OA2 20-40cm. Black (10YR 2/1) mucky silt loam. Weak coarse (5cm) prismatic structure. Clear boundary.
- OA3 40-66cm. Black (10YR 2/1) mucky silt loam. Massive structure. Clear boundary.
- BC 66-86cm. Brown (10YR 4/3) Silt loam. Massive structure. Clear boundary
- C 86-112cm. Yellowish brown (10YR 5/4) silty clay loam. Massive structure.

JB05D Core 5:

- Ap 0-10cm. Black (10YR 2/1) sapric muck. Moderate fine (2mm) granular structure. Abrupt boundary.
- OA1 10-30cm. Dark brown (7.5YR 3/2) mucky silt loam. Weak very coarse (5cm) prismatic structure parting to weak very coarse (3cm) sub-angular blocky. Gradual boundary.
- OA2 30-50cm. Dark brown (7.5YR 3/2) mucky silty clay loam. Very weak very coarse (15cm) prismatic structure. Clear boundary.
- BC 50-68cm. Dark yellowish brown (10YR 4/4) Silty clay loam. Very weak very coarse (15cm) prismatic structure. Gradual boundary
- C1 68-87cm. Yellowish brown (10YR 5/4) silty clay loam. Weak fine (5-10mm) sub-angular blocky structure. Gradual boundary.
- C2 87-100+cm. Yellowish brown (10YR 5/6) silty clay loam. Strong fine (5-10mm) sub-angular blocky structure. Gradual boundary.

**Old ditch was present in this pit.

JB06C Core 6:

- Ap 0-16cm. Very dark brown (10YR 2/2) sandy loam. Moderate medium (1-2 cm) sub-angular to granular structure. Abrupt boundary. Possible fill material.
- Oa 16-28cm. Black (N 2.5/0) sapric muck. Strong medium (3mm) granular to moderate medium (2cm) sub-angular blocky structure. Abrupt boundary.
- OA1 28-50cm. Very dark gray (10YR3/1) mucky silt loam, with black (N 2.5/0) infilling of root channels. Very weak very coarse (10cm) prismatic structure. Clear boundary.
- BC 50-82cm. Dark brown (10YR3/3) sandy loam with 2% light gray (10YR 7/1) sand. Massive structure. Abrupt boundary.
- C1 82-117cm. Olive yellow (2.5Y 6/6) loamy sand with 2% light gray (2.5Y 7/1) sand. Single grain structure. Clear boundary.
- C2 117+cm. Dark gray (10YR 4/1) sandy clay loam. Massive structure. Reacted to alpha,alpha-diperitol.

JB06D Core 6:

- Ap 0-13cm. Black (5YR 2.5/1) sandy loam with 90% coated sand grains. Moderate medium (5mm) granular structure. Abrupt boundary.
- OA 13-32cm. Very dark brown (10YR 2/2) mucky silty loam with 12% organic nodules. Weak very coarse (15cm) prismatic structure. Abrupt boundary.
- Bw1 32-42cm. Brown (7.5 YR 4/3) loamy sand with 20% C sand in root channels. Weak coarse (5cm) sub-angular blocky structure. Clear boundary.
- Bw2 42-54cm. Light yellowish brown (10YR 6/4) loamy sand with 10% white (7.5 YR 8/1) sand in root channels. Very weak coarse (5cm) sub-angular blocky structure. Clear boundary.
- Bg 54-71cm. White (7.5 YR 8/1) loamy sand with 40% pale brown (10YR 6/3) iron concentrations. Single grain structure. Clear boundary.
- C1 71-92cm. Yellowish brown (10YR 5/4) loamy sand. Single grain structure. Abrupt boundary.
- C2 92-115+cm. Olive gray (5Y 4/2) sandy loam with 5% white (7.5 YR 8/1) sand. Massive structure. Reacted to alpha,alpha-diperitol.

JB07C Core 7:

- Ap 0-13cm. Black (N 2.5/0) loamy sand with 70% organic sand coatings. Moderate medium (5mm) granular structure. Clear wavy boundary.
- A/E 13-30cm. Black (N 2.5/0) and 50% light gray (2.5Y 7/1) loamy sand. Combination of Ap and 25% underlying E horizons. Weak medium (2cm) subangular blocky to moderate medium (5mm) granular structure. Composed of Ap and E material. Abrupt boundary.
- Bhir 30-47cm. Very dark brown (10YR 2/2) loamy sand. Massive structure. Frigable. Clear boundary.
- Bir 47-62cm. Dark brown (10YR 3/3) loamy sand. Massive structure. Friable. Clear boundary.

- A/E' 62-75cm. Black (N 2.5/0) loamy sand with chunks up to 30cm across that are light yellowish brown (2.5Y 6/3). Matrix has massive structure while the chunks have single grain structure. Buried A or Bh. Clear boundary.
- C 75-87+cm. Brown (10YR 5/3) loamy sand. Single grain structure.

JB07D Core 7:

- Ap 0-18cm. Black (N 2.5/0) loamy sand with 70% organic sand coatings. Weak fine (3mm) granular structure. Abrupt boundary.
- E 18-28cm. White (10YR8/1) loamy sand with 12% black (N 2.5/0) material in root channels. Single grain structure. Abrupt boundary.
- Bhir/E 28-38cm. Very dark brown (10YR 2/2) and 25% light gray (10YR 7/1) loamy sand. Massive structure. Clear boundary.
- E/Bhir 38-48cm. Light gray (10YR 7/1) and 40% brown (10YR4/3) loamy sand. Massive structure. Clear boundary.
- Bhir 48-69cm. Brown (10YR4/3) loamy sand with layers 2cm wide that are very dark brown (10YR 2/2). Massive structure. Abrupt wavy boundary.
- B'h 69-76cm. Black (10YR 2/1) loamy sand with white (10 YR 8/1) sand in root channels. Massive firm structure. Slightly brittle. Clear boundary.
- C 76+cm. Light brownish gray (10YR 6/2) loamy sand. Single grain structure.

JB08C Core 8:

- Oa 0-20cm. Black (N 2.5/0) sapric muck. Strong fine (2mm) granular structure. Clear boundary.
- A/Bw 20-30cm. Black (7.5YR 2.5/1) and 30% dark brown (7.5YR 3/2) loam. Weak medium (4cm) prismatic structure. Abrupt boundary.
- Bw1 30-50cm. Very dark gray (5YR 3/1) sandy loam. Weak medium (5cm) prismatic to moderate medium (2cm) sub-angular block structure. Abrupt boundary.
- Bw2 50-69cm. Grayish brown (2.5Y 5/2) sandy loam with dark gray (10YR 4/1) iron masses. 25% root channels had white (10 YR 8/1) sand. Weak medium (5cm) prismatic to moderate medium (2cm) sub-angular block structure. Clear boundary.
- 2BC 69-91cm. Grayish brown (2.5Y 5/2) sandy clay. Includes a very dark gray (2.5Y 3/1) layer 2-5cm thick at top of horizon. Strong medium (2cm) sub-angular blocky structure. Clear boundary.
- 2C 91+cm. Gray (10YR 5/1) sandy clay with 2% strong brown (7.5YR 4/6) iron concentrations. Massive structure. Dense. Reacts to alpha-alpha.

JB08D Core 8:

- Oa 0-20cm. Black (N 2.5/0) sapric muck. Strong fine (2mm) granular structure. Abrupt wavy boundary.
- OA 20-35cm. Black (10YR 2.5/1)mucky siltloam. Moderate medium (2cm) sub-angular blocky structure. Abrupt boundary.

- Bw 35-46cm. Brown (7.5YR 4/2) sandy loam with 50% yellowish brown (10YR 5/4) color. Weak medium (5cm) prismatic to moderate medium (2cm) sub-angular block structure. Abrupt boundary.
- BC 46-72cm. Brown (7.5Y 4/2) sandy loam. Weak medium (5cm) prismatic to moderate medium (2cm) sub-angular block structure. Clear boundary.
- Bg 72-88cm. Grayish brown (10YR 5/2) sandy clay loam. Strong to moderate medium (1-2cm) sub-angular blocky structure. Clear boundary.
- 2C 88-100+cm. dark gray (10YR 4/1) sandy clay. Moderate to strong medium (1cm) platy structure. Dense.

JB09C Core 9:

- Oap 0-16cm. Black (7.5YR 2.5/1) mucky loamy sand. Weak fine (2mm) granular structure. Clear boundary.
- Oa 16-33cm. Black (10YR 2/1) mucky loamy sandy. Weak medium (1-3 cm) sub-angular blocky structure. Slightly compacted. Abrupt.
- OA1 33-50cm. Very dark brown (10YR 2/2) mucky silt loam. Moderate coarse (10cm) prismatic structure. Clear boundary.
- OA2 50-64cm. Very dark brown (10YR 2/2) mucky silt loam. Weak coarse (10cm) prismatic structure. Clear boundary.
- OA/BC64-79cm. Very dark brown (10YR 2/2) and brown (7.5YR 4/4) mucky silt loam to fine sandy clay loam with 2% white (2.5 YR 8/1) sand in root channels. Very weak coarse (10cm) prismatic structure. Clear boundary.
- BC 79-106cm. Dark yellowish brown (10YR 4/4) fine sandy loam with 1% white (2.5 YR 8/1) sand in root channels. Massive structure. Abrupt boundary.
- 2C 106-117cm. Brown (10YR 5/3) loamy sand. Massive structure. Abrupt boundary.
- 3C 117-120+cm. Gray (5Y 5/1) dense sandy clay. Massive structure.

JB09D Core 9:

- Oap 0-14cm. Black (10YR 2/1) sapric muck. Moderate medium (2-5mm) granular structure. Clear boundary.
- A 14-30cm. Black (10YR 2/1) sandy loam with 25% gray (10YR 6/1). Weak medium (1-2cm) sub-angular blocky structure. Clear boundary.
- Bw 30-46cm. Yellowish brown (10YR 5/4) loamy sand with 25% white (2.5 YR 8/1) sand in root channels. Massive structure. Clear boundary.
- C1 46-60cm. Light yellowish brown (2.5Y 6/4) sandy loam with 12% white (10 YR 8/1) sand in root channels. Massive structure. Clear boundary.
- C2 60-80cm. Light yellowish brown (2.5Y 6/4) loamy sand with 5% white (10 YR 8/1) sand in root channels. Massive structure. Clear boundary.
- C3 46-60cm. light yellowish brown (2.5Y 6/3) loamy sand with 40% white (10 YR 8/1) sand in root channels. Massive structure. Abrupt boundary.
- C4 46-60cm. Gray (5Y 6/1) sandy clay loam. Massive structure. Clear boundary. Sulfur smell present.

**Top 30cm contained mixed soil from human activity. Extends to 65cm in some parts of the pit.

JB10C Core 10:

- Ap 0-10cm. Very dark brown (10YR 2/2) sandy loam. Moderate medium (3mm) granular structure. Abrupt boundary.
- Oa 10-20cm. Black (N 2.5/0) sapric muck. Moderate fine (2mm) granular to sub-angular blocky structure. Abrupt boundary.
- OA1 20-51cm. Black (10YR 2/1) mucky silt loam. Weak very coarse (20cm) prismatic structure. Clear boundary.
- OA2 51-61cm. Very dark brown (10YR 2/2) mucky silt loam with 25% black (N 2.5/0) charcoal. Weak coarse (10cm) prismatic structure.
- OA3 61-68cm. Dark brown (10YR 3/3) mucky fine sandy loam. Very weak coarse (10cm) prismatic structure. Clear boundary.
- Bw 68-107cm. Yellowish brown (10YR 5/4) very fine sandy clay loam. Weak very coarse (20cm) platy to moderate medium (5cm) sub-angular blocky structure. Clear boundary.
- C 107-120+cm. Light brownish yellow (10YR 6/2) sandy clay loam. Strong medium (1cm) angular blocky structure. Faint reaction to alpha-alpha.

JB10D Core 10:

- Oap 0-10cm. Black (10YR 2/1) sapric muck. Weak to moderate medium (2cm) granular to sub-angular blocky structure. Abrupt boundary.
- O/C 10-29cm. Black (5YR 2.5/1) sapric muck and 30% light yellowish brown (10YR 6/4) silt loam in discontinuous layers 1-5cm thick. Strong medium (2mm) granular structure. Clear boundary.
- Bw 29-65cm. Light yellowish brown (10YR 6/4) very fine sandy clay loam. Moderate medium sub-angular blocky structure parting to strong fine (5mm) angular blocky structure. Clear boundary.
- BC 65-82cm. Brown (10YR 5/3) fine sandy loam. Moderate to strong fine (5mm) sub-angular to angular blocky structure. Clear boundary.
- C 82-100+cm. Light gray (10YR 7/1) fine sandy loam with 1% white (2.5Y 7/1) sand in root channels. Strong medium (2cm) angular blocky structure.

JB11C Core 11:

- Oa 0-18cm. Black (N 2.5/0) sapric muck. Moderate to strong medium (5mm) granular to sub-angular blocky structure. Abrupt boundary.
- OA 18-34cm. Very dark brown (10YR 2/2) mucky silt loam. Weak coarse (10cm) prismatic structure. %5 wood fragments. Clear boundary.
- Bw 34-57cm. Very dark brown (10YR 2/2) mucky silt loam. Weak to moderate fine medium (5cm) prismatic structure. Clear boundary.
- 2BC 57-67cm. Light yellowish brown (10YR 6/4) loamy sand with 15% white (10YR 8/1) sand depletions. Single grain structure. Clear boundary.
- 2C1 67-90cm. Yellow (10YR 7/6) loamy sand with 20% white (10YR 8/1) sand depletions. Single grain structure. Clear boundary.
- 2C2 90-110+cm. Light yellowish brown (10YR 6/4) loamy sand. Single grain structure.

JB11D Core 11:

- Ap 0-10cm. Black (N 2.5/0) sandy loam with 90% organic coated sand grains. Weak to moderate fine (2mm) granular to sub-angular blocky structure. Clear boundary.
- OA 10-23cm. Black (N 2.5/0) mucky sandy loam with 80% organic coated sand grains. Weak to moderate medium (1-2cm) sub-angular blocky structure. Abrupt boundary.
- Bw1 23-39cm. Very dark brown (10YR 2/2) sandy loam with 20% having areas 1cm in diameter of uncoated white (10YR 8/1)sand grains. Weak fine (4cm) prismatic structure. Clear boundary.
- Bw2 39-59cm. Dark yellowish brown (10YR 3/4) sandy loam with 30% having areas 1mm in diameter of 30% uncoated very pale brown (10YR 8/2)sand grains. Very weak medium (5cm) prismatic structure. Clear boundary.
- BC 59-92cm. Brownish yellow (10YR 6/6) loamy sand with 10% white (10YR 8/1)sand grains along root channel. Single grain structure. Abrupt boundary.
- C1 92-111cm. Grayish brown (10YR 5/2) loamy sand with very dark gray (10YR 3/1) horizontal layers 1-2 cm thick in 30% of the horizon. There is also 5% yellow (10YR 7/6) sand in root channels. Massive structure. Clear boundary.
- C2 111-120+cm. Black (10YR 2/1) sandy loam. Massive structure. Sulfur smell present.

JB12C Core12:

- Ap1 0-13cm. Black (N 2.5/0) sandy loam. Weak medium (2cm) sub-angular blocky to fine (2mm) granular structure. Clear boundary.
- Ap2 13-34cm. Black (N 2.5/0) sandy loam with 25% white (10YR 8/1) sand. Massive structure. Clear boundary.
- Bw 34-51cm. Yellowish brown (10YR 5/4) loamy sand with 15% white (10YR 8/1) sand around root channels. Massive structure. Abrupt boundary.
- B'h 51-67cm. Black (10YR 2/1) sandy loam with 20% light gray (10YR 7/2) sand. Massive structure. Abrupt boundary. Slightly brittle.
- E' 67-81cm. Light yellowish brown (10YR6/4) loamy sand with alternating white (10YR 8/1) layers 1cm thick. Single grain structure. Very friagable.

JB12D Core12:

- Ap 0-14cm. Black (N 2.5/0) sandy loam with 90% organically coated sand grains. Weak fine (2mm) granular structure. Clear boundary.
- A2 14-31cm. Black (N 2.5/0) sandy loam with 25% white (10YR 8/1) sand in areas 1-2cm in diameter. Weak medium (1cm) sub-angular blocky structure. Gradual boundary.
- Bw/E 31-48cm. Light yellowish brown (10YR6/4) and white (10YR 8/1) loamy sand. Single grain structure. Clear boundary.
- Bh/Bw 48-73cm. Very dark brown (10YR 2/2) sandy loam with 40% white (10YR 8/1) loamy sand. Massive structure sandy loam. Single grain structure loamy sand. Clear boundary. Portions of Bh weakly cemented.
- C 73-80+cm. Light brownish gray (10YR 6/2) loamy sand. Single grain structure.

JB13C Core13:

- Oap 0-13cm. Black (N 2.5/0) sapric muck. Strong fine (2mm) sub-angular blocky structure. Abrupt boundary.
- OA 13-40cm. Black (10YR 2/1) mucky silt loam. Weak very coarse (15cm) prismatic structure. Clear boundary.
- Bw 40-70cm. Very dark grayish brown (10YR 3/2) sandy loam with 5% light gray (10YR7/2) redox depletions along root channels. Weak very coarse (15cm) prismatic structure. Abrupt boundary.
- Bh 70-105cm. Black (10YR 2/1) mucky sandy loam with 5% light gray (10YR7/2) redox depletions along root channels. Weak medium (2cm) sub-angular blocky structure. Clear boundary. Firm sticky and brittle.
- C 105+cm. Gray (10YR 6/1) layers of sandy loam and loamy sand. Massive structure. Cemented.

JB13D Core13:

- Oap 0-18cm. Black (N 2.5/0) sapric muck. Strong fine (2mm) sub-angular blocky structure. Abrupt boundary.
- OA 18-30cm. Black (10YR 2/1) mucky silt loam. Strong medium (4cm) prismatic structure. Abrupt boundary.
- Ab/Bw 30-44cm. Very dark grayish brown (10YR 3/2) and 25% very dark brown (10YR 2/2) sandy loam with 12% white (10YR 8/1) redox depletions. Weak medium (4cm) prismatic structure. Abrupt boundary. Two percent wood fragments.
- EB 44-53cm. Dark grayish brown (10YR 4/2) sandy loam with 25% very dark brown (10YR 2/2) in bands 1cm thick. Weak medium (4cm) prismatic structure. Abrupt boundary.
- Bh 53-78cm. Black (10YR 2/1) mucky sandy loam with 6% light gray (10YR 7/1) redox depletions. Massive structure. Firm and slightly brittle.
- BC 78-99cm. Very dark gray (10YR 3/1) loamy sand with 30% white (10YR 8/1) redox depletions. Massive structure. Clear boundary.
- C 99+cm. Very dark grayish brown (10YR 3/2) sandy loam. Strong medium (1cm) platy structure. Dense, firm, and brittle.

JB14C Core14:

- Ap 0-19cm. Black (N 2.5/0) loamy sand with 60% organically coated sand grains. Weak medium (5mm) granular structure. Clear wavy boundary. Ten percent charcoal.
- A 19-30cm. Black (N 2.5/0) loamy sand with 70% organically coated sand grains and 10% white (N 8/0) E material. Weak medium (2mm) granular structure. Abrupt boundary. Ten percent charcoal.
- E 30-51cm. White (N 8/0) loamy sand with 12% Black (N 2.5/0) A material. Single grain structure. Clear boundary.

- Bh/E 51-68cm. Very dark grayish brown (10YR 3/2) loamy sand and 25% white (10YR 8/1) E material along root channels. Bh material is in 1 cm bands. Massive structure. Gradual boundary.
- Bir1 68-94cm. Very dark brown (10YR 2/2) loamy sand in 1-5cm layers with 40% alternating dark brown (10YR 3/3) layers. Massive structure. Diffuse boundary.
- Bir2 94-120cm. Dark brown (7.5YR 3/3) loamy sand in 5 cm layers with 40% alternating strong brown (7.5YR 4/6) layers. Massive structure. Clear boundary.
- C 120-130+cm. Light olive brown (2.5Y 5/4) loamy sand. Massive structure.

JB14D Core14:

- Ap 0-10cm. Black (N 2.5/0) sandy loam with 30% organically coated sand grains. Weak medium (2mm) granular structure. Clear wavy boundary.
- A 10-25cm. Black (N 2.5/0) loamy sand with 70% organically coated sand grains and 25% light gray (N 7/1) E material. Weak coarse (2mm) sub-angular blocky structure. Abrupt boundary.
- E 25-35cm. Light gray (N 7/1) loamy sand and 25% Black (N 2.5/0) A material. Single grain structure. Abrupt irregular boundary.
- Bh/E 35-51cm. Dark reddish brown (5YR 2.5/2) loamy sand in 2cm discontinuous layers with 40% light gray (7.5YR 7/1) material along root channels. Massive structure. Clear wavy boundary.
- Bir1 51-73cm. Brown (7.5YR 4/3) loamy sand with black (7.5 YR 2.5/1) bands 5 cm in thickness. Massive structure. Gradual boundary.
- Bir2 73-100cm. Yellowish brown (10YR 5/4) loamy sand with faint banding of darker material 1-2 cm thick over 40% of the horizon. Massive structure. Gradual boundary.
- C 100-117+cm. Brown (10YR 5/3) loamy sand with 10% cemented bodies 5cm in diameter. Massive structure.

JB15C Core15:

- OAp 0-15cm. Black (10YR 2/1) mucky sandy loam with 90% organically coated sand grains. Moderate medium (2mm) granular structure. Abrupt boundary.
- Oa 15-21cm. Black (N 2.5/0) sapric muck with 5% wood fragments. Strong medium (5mm) granular structure. Abrupt boundary.
- OA1 21-37cm. Black (10YR 2/1) mucky silt loam. Had 5% wood fragments and charcoal. Weak coarse (5cm) prismatic and moderate coarse (2cm) sub-angular blocky structure. Clear boundary.
- OA2 37-50cm. Black (5YR 2.5/1) mucky silt loam with 25% wood fragments. Weak coarse (5cm) prismatic structure. Abrupt boundary.
- Oi/A 50-67cm. Black (5YR 2.5/1) and light yellowish brown (10YR 6/4) fine sandy loam. Oi is a decomposed log 5cm diameter below a 2cm layer of charcoal which overlies 2cm redox depleted fine sandy loam overlying 2 cm black (N 2.5/0) sandy loam. This is possibly due to fire. Moderate fine granular structure. Abrupt boundary.
- Bw 67-100cm. Brown (7.5YR 4/3) sandy loam with 15% wood fragments. Weak very coarse (15cm) prismatic to moderate coarse (2cm) sub-angular blocky structure. Abrupt boundary.

C 100-115+cm. Light yellowish brown (2.5Y 6/4) sandy loam. Massive structure.

JB15D Core15:

- Ap1 0-12cm. Dark gray (2.5Y 4/1) sandy loam with less than 50% organically coated sand grains and 5% charcoal fragments. Weak fine (2mm) granular structure. Abrupt wavy boundary.
- Ap2 12-25cm. Very dark gray (2.5 3/1) sandy loam with 70% organically coated sand grains and 10% charcoal fragments. Massive structure. Clear boundary.
- A/E 25-38cm. Black (N 2.5/0) sandy loam with gray (2.5Y 5/1) sand in thin layers 5mm thick. Weak medium (5mm) platy structure. Clear boundary.
- Bw 38-57cm. Brown (7.5YR 4/3) sandy loam with 30% light brown (7.5YR 6/3) redox depletions along root channels. There was 5% wood fragments. Weak coarse (5cm) prismatic structure. Clear boundary.
- BC 57-91cm. Light yellowish brown (10YR 6/4) sandy loam with 5% white (10YR 8/1) material around root channels. Massive structure. Clear boundary.
- C 91-102+cm. Pale yellow (2.5Y 7/4) loamy sand with 40% stripped sand grains that are white (10YR 8/1) around root channels.
- ** At 102 cm there is a brittle layer 2cm thick.

JB16C Core16:

- Oap 0-11cm. Black (N 2.5/0) sapric muck. Strong medium (2mm) granular structure. Abrupt boundary.
- OA1 11-31cm. Very dark brown (10YR 2/2) mucky silt loam with 10% wood fragments and 10% charcoal. Massive structure. Diffuse boundary
- OA2 31-52cm. Very dark brown (10YR 2/2) mucky silt loam with 10% wood fragments and 10% charcoal. Massive structure. Abrupt boundary.
- Bw 52-61cm. Dark reddish brown (5YR 3/3) sandy loam. Moderate coarse (5cm) prismatic structure. Abrupt boundary.
- 2BC 61-78cm. Yellowish brown (10YR 5/4) loamy sand with 40% white (2.5Y 8/1) sand in areas 1mm in diameter. There was 10% wood fragments. Massive structure. Clear boundary.
- 2C1 78-100cm. Light yellowish brown (10YR 6/4) loamy sand with 5% wood fragments. Massive structure. Clear boundary.
- 2C2 100+cm. Dark gray (10YR 4/1) loamy sand. Single grain structure. reaction to alpha, alpha. Dense.

JB16D Core16:

- Oap 0-24cm. Black (N 2.5/0) sapric muck. Strong medium (2mm) granular structure. Abrupt boundary.
- OA1 24-41cm. Very dark brown (10YR 2/2) mucky silt loam with 20% wood fragments. Weak to moderate very coarse (15cm) prismatic and sub-angular blocky structure. Clear boundary.

- OA2 41-59cm. Black (10YR 2/1) mucky silt loam with 10% wood fragments. Weak very coarse (15cm) prismatic structure. Abrupt boundary.
- Bw 59-74cm. Yellowish Brown (10YR 5/4) sandy loam with 20% very pale brown (10YR 8/2) depletions along root channels. Very weak coarse (3cm) sub-angular blocky structure. Clear boundary.
- BC 74-110cm. Light yellowish brown (10YR 6/4) loamy sand with 10% very pale brown (10YR 8/2) depletions along root channels. Massive structure. Clear boundary. Slightly brittle.
- Bh 110-130cm. Black (10YR 2/1) sandy loam with 5% white (10YR 8/1) depletions. Massive structure. Cemented, brittle and firm.

JB17C Core17:

- Ap 0-20cm. Black (10YR 2/1) loamy sand with 95% organically coated sand grains. Weak medium (2-5mm) granular structure. Abrupt boundary.
- E 20-47cm. Gray (N 6/0) loamy sand with 12% A horizon material in root channels. Single grain structure. Clear boundary.
- Bhir1 47-70cm. Very dark brown (10YR 2/2) sandy loam with 25% E material in upper half of horizon. Massive structure. Clear boundary.
- Bhir2 70-92cm. Black (10YR 2/1) and dark brown (10YR 3/3) sandy loam in alternating layers 2-7cm thick. Massive structure. Abrupt boundary.
- Bh 92-120cm. Black (10YR 2/1) sandy loam with 10% gray (10YR 6/1) sandy grains. Massive structure. Firm and slightly brittle.

JB17D Core17:

- Ap 0-24cm. Very dark gray (5YR 3/1) loamy sand with 15% pockets of white (10YR 8/1) sand, 6% charcoal and 60% organically coated sand grains. Weak to moderate coarse (3cm) prismatic to sub-angular blocky structure. Abrupt boundary.
- E 24-41cm. Gray (2.5Y 6/1) loamy sand with 12% A horizon material in root channels. Single grain structure. Clear boundary.
- Bhir1 41-56cm. Dark brown (7.5YR 3/2) loamy sand with 25% E material along root channels. Massive structure. Clear boundary.
- Bhir2 56-84cm. Black (7.5YR 2.5/1) and dark brown (7.5YR 3/2) sandy loam in alternating layers 2-7cm thick. Massive structure. Clear boundary.
- Bh 84-110cm. Black (N 2.5/0) sandy loam. Massive structure. Friable and slightly brittle.

JB61C:

- Ap 0-22cm. Black (N 2.5/0) mucky sandy loam with 60% organically coated sand grains. Moderate medium granular structure. Clear boundary.
- Oa 22-36cm. Very dark brown (10YR 2/2) sapric muck. Strong coarse granular structure. Clear boundary.
- Bw 36-56cm. Dark brown (10YR 3/3) sandy loam with 2% gray (10YR 6/1) sand. Weak medium sub-angular blocky structure. Clear boundary.

- BC 56-74cm. Dark yellowish brown (10YR 4/6) loamy sand with 2% gray (10YR 6/1) sand. Weak medium sub-angular blocky structure. Gradual boundary.
- C 74-108cm. Brownish yellow (10YR 6/6) with 2% gray (10YR 6/1) sand. Single grain structure.

JB61D:

- Aop 0-15cm. Very dark gray (10YR 4/1) mucky sandy loam. Moderate fine granular structure. Abrupt boundary.
- Oa 15-30cm. Black (N 2.5/0) sapric muck. Weak coarse prismatic structure. Clear boundary.
- Bw1 30-45cm. Dark brown (10YR 3/3) sapric muck. Weak coarse prismatic structure. Clear boundary.
- Bw2 45-65cm. Olive brown (2.5Y 4/4) loamy sand with 2% gray (10YR 6/1) sand. Weak medium sub-angular blocky structure. Gradual boundary.
- Bw3 65-86cm. Dark yellowish brown (10YR 4/4) loamy sand with 2% gray (10YR 6/1) sand. Weak medium sub-angular blocky structure. Abrupt boundary.
- Bw4 86-94cm. Dark yellowish brown (10YR 4/6) loamy sand. Weak medium sub-angular blocky structure. Abrupt boundary. Slightly cemented.
- C1 94-116cm. Dark grayish brown (2.5Y 4/2) sandy loam. Single grain structure. Gradual boundary.
- C2 116-135cm. Grayish brown (10YR 5/2) loamy sand with pockets of very dark gray (10YR 3/1) sandy loam. Single grain structure. Clear boundary.
- 2C 135+cm. Black (10YR 2/1) silty clay loam. Massive structure.

JB62C:

- Ap 0-17cm. Black (10YR 2/1) sandy loam. Weak medium granular structure. Clear boundary.
- A/E 17-33cm. Black (10YR 2/1) loamy sand with 25% light gray (10YR 7/1) sand. Weak medium. Sub-angular blocky structure.
- Bhir 33-50cm. Dark brown (10YR 3/3) loamy sand with 5% gray (10YR 5/1) sand. Weak medium sub-angular blocky structure. Gradual boundary.
- Bt1 50-78cm. Dark yellowish brown (10YR 4/4) sandy loam. Weak very coarse prismatic structure. Gradual boundary.
- Bt2 78-121cm. Yellowish brown (10YR 5/6) sandy clay loam. Weak very coarse prismatic structure. Gradual boundary.
- C1 121-140cm. Light brownish gray (10YR 6/2) sand with 12% grayish brown (10YR 5/2) depletions. Single grain structure. Abrupt boundary.
- 2C 140+cm. Grayish brown (10YR 5/2) clay. Massive structure.

JB62D:

- Ap 0-11cm. Very dark brown (10YR 2/2) sandy loam with 20% organically coated sand grains. Weak fine granular structure. Clear boundary.

- A 11-32cm. Black (10YR 2/1) and gray (10YR6/1) sandy loam with 50% organically coated sand grains. Weak medium sub-angular blocky structure. Clear wavy boundary.
- E 32-46cm. Gray (10YR6/1) sandy loam. Weak medium sub-angular blocky structure. Clear boundary.
- Bhr1 46-80cm. Dark brown (10YR 3/3) and 12% very dark brown (10YR 2/2) sandy loam. Weak coarse sub-angular blocky structure. Gradual boundary.
- Bhr2 80-109cm. Dark brown (10YR 3/3) sandy loam. Weak coarse sub-angular blocky structure. Gradual boundary.
- BC 109-130cm. Dark yellowish brown (10YR 4/4) sandy loam. Weak medium sub-angular blocky structure. Clear boundary. Slightly cemented.
- C 130+cm. Yellowish brown (10YR 5/6) sandy loam. Massive structure.

JB63C:

- Ap 0-18cm. Black (10YR 2/1) mucky sandy loam with 60% organically coated sand grains light gray (10YR 7/1). Weak fine granular structure. Clear boundary.
- Oa 18-36cm. Black (10YR 2/1) mucky loam with 12% organically coated sand grains light gray (10YR 7/1). Moderate medium sub-angular blocky structure. Clear boundary.
- E/B 36-48cm. Dark yellowish brown (10YR 3/4) and gray (10YR 6/1) loamy sand. Weak medium sub-angular blocky structure. Clear boundary.
- Bt1 48-68cm. Dark yellowish brown (10YR 3/4) sandy loam with gray (10YR 6/1) sand in root channels. Weak medium sub-angular blocky structure. Clear boundary.
- Bt2 68-93cm. Brownish yellow (10YR 6/6) sandy clay loam with alternating very pale brown (10YR 7/4) layers of sand 1mm in thickness every 5mm. Moderate medium platy structure. Clear boundary.
- C 93+cm. Light gray (10YR 7/1) sand with brownish yellow (10YR 6/6) sandy clay layers 1-3mm thick in alternating layers 1-10cm apart.

JB63D:

- Ap 0-16cm. Black (10YR 2/1) sandy loam with 50% organically coated sand grains gray (10YR 6/1). Weak fine granular structure. Gradual boundary.
- AE 16-31cm. Black (10YR 2/1) loamy sand with 25% light gray (10YR 7/1) E horizon material. Weak fine sub-angular blocky structure. Clear boundary.
- E 31-48cm. Light gray (10YR 7/1) loamy sand with 12% brown (10YR 4/3). Weak medium sub-angular blocky structure. Gradual boundary.
- Bt 48-68cm. Dark yellowish brown (10YR 4/4) sandy loam with 5% light brownish gray (10YR 6/2) sand in root channels. Moderate medium sub-angular blocky structure. Clear boundary.
- C 68-90cm. Light yellowish brown (10YR 6/4) sandy loam with light gray (10YR 7/1) band of white sand 1-10cm thick. Weak medium sub-angular blocky structure. Abrupt boundary.
- 2C 90-130+cm. Grayish brown (10YR5/2) clay. Massive structure.

JB64C:

- Ap 0-16cm. Gray (7.5YR 6/1) loamy sand with 30% black (10YR 2/1) organically coated sand grains. Weak fine granular structure. Clear boundary.
- AE 16-31cm. Gray (7.5YR 6/1) and black (10YR 2/1) sandy loam. Weak fine granular structure. Clear boundary.
- Bh/E 31-48cm. Dark yellowish brown (10YR 3/4), 20% grayish brown (10YR 5/2) and 2% very dark gray (10YR 3/1) loamy sand. Weak medium sub-angular blocky structure. Gradual boundary.
- Bhir 48-68cm. Very dark gray (10YR 3/1) loamy sand. Single grain structure. Gradual boundary.
- C1 68-98cm. Yellowish brown (10YR 5/6) loamy sand with dark yellowish brown (10YR 3/4) around root channels. Single grain structure. Gradual boundary.
- C2 98+cm. Brown (10YR 4/3) loamy sand. Single grain structure.

JB64D:

- Ap 0-22cm. Black (10YR 2/1) loamy sand with 50% organically coated sand grains. Weak fine granular structure. Abrupt boundary.
- E 22-58cm. Gray (7.5YR 6/1) sand. Weak medium sub-angular blocky structure. Abrupt boundary.
- Bh/E 58-88cm. Dark brown (7.5YR 3/2) loamy sand with 20% gray (7.5YR 5/1) horizontal stripes that appear to be E material. Moderate medium sub-angular blocky structure. Gradual boundary.
- Bhir1 88-112cm. Black (10YR 2/1) loamy sand. Moderate medium sub-angular blocky structure. Gradual boundary. Slightly cemented.
- Bhir2 112-125cm. Very dark brown (7.5YR 2.5/3) loamy sand with a black (10YR 2/1) layer 1cm thick at bottom of the horizon. Single grain structure. Abrupt boundary.
- C 125+cm. Dark yellowish brown (10YR 3/4) loamy sand with very dark (10YR 3/2) bands 1-5mm thick. Single grain structure.

JB65C:

- Ap 0-12cm. Black (N 2.5/0) mucky sandy loam with 90% organically coated sand grains. Weak medium granular structure. Clear boundary.
- Oa 12-22cm. Very dark brown (10YR 2/2) sapric muck. Strong fine sub-angular blocky structure. Clear boundary.
- Bw1 22-52cm. Dark brown (10YR 3/3) sandy loam with 12% gray (10YR 5/1) sand. Weak coarse sub-angular blocky structure. Clear boundary.
- Bw2 52-67cm. Yellowish brown (10YR 5/4) loamy sand with 12% gray (10YR 6/1) sand pockets. Weak coarse sub-angular blocky structure. Clear boundary.
- Bg 67-95cm. Black (N 2.5/0) sandy clay loam. Weak coarse angular blocky structure. Clear boundary. Cemented.
- C 95+cm. Grayish brown (10YR 5/2) sandy clay. Massive structure.

JB65D:

- Ap 0-18cm. Black (N 2.5/0) mucky sandy loam with 90% organically coated sand grains. Weak fine granular structure. Clear boundary.
- Oa 18-36cm. Very dark brown (10YR 2/2) sapric muck. Weak coarse prismatic structure. Gradual boundary.
- Bw 36-55cm. Black (N 2.5/0) sandy loam. Weak coarse prismatic structure. Gradual boundary.
- BC 55-90+cm. Very dark grayish brown (10YR 3/2) and 25% grayish brown (10YR 5/2) sandy loam. Weak coarse sub-angular blocky structure.

JB66C:

- Oap 0-15cm. Black (N 2.5/0) sapric muck. Strong medium granular structure. Abrupt boundary.
- Oa 15-40cm. Black (10YR 2/1) sapric muck. Weak coarse prismatic structure. Gradual boundary.
- Bw 40-64cm. Very dark grayish brown (10YR 3/2) mucky sandy loam. Weak coarse sub-angular blocky structure. Abrupt boundary.
- BC 64-85cm. Black (10YR 2/1) sandy loam. Weak coarse sub-angular blocky structure. Clear boundary.
- C 85+cm. Very dark grayish brown (10YR 3/2) sandy loam with 12% gray (10YR 6/1) sand around root channels. Massive structure.

JB66D:

- Oap 0-18cm. Black (N 2.5/0) sapric muck. Strong medium granular structure. Abrupt boundary.
- Oa1 18-37cm. Very dark brown (10YR 2/2) sapric muck. Weak very coarse prismatic structure. Abrupt boundary.
- Oa2 37-47cm. Black (10YR 2/1) sapric muck with 12% charcoal. Weak coarse prismatic structure. Abrupt boundary.
- Bw1 47-69cm. Very dark grayish brown (10YR 3/2) sapric muck. Weak very coarse prismatic structure. Gradual boundary.
- Bw2 69-100cm. Very dark brown (10YR 2/2) mucky sandy loam. Weak very coarse prismatic structure. Clear boundary.
- C 100+cm. Black (10YR 2/1) sandy clay loam with 12% gray (10YR 6/1) sandy along root channels. Very cemented.

JB67C:

- Oap 0-15cm. Black (N 2.5/0) mucky sandy loam. Moderate fine granular structure. Gradual boundary.
- Oa 15-34cm. Very dark gray (10YR 3/1) mucky sandy loam. Moderate medium sub-angular blocky structure. Gradual boundary.

- Bw 34-45cm. Very dark grayish brown (10YR 3/2) sandy loam with 20% dark yellowish brown (10YR 4/4) pockets. Moderate medium sub-angular blocky structure. Gradual boundary.
- BC 45-64cm. Very dark grayish brown (10YR 3/2) loamy sand with 2% grayish brown (10YR 3/2) along root channels. Moderate medium sub-angular blocky structure. Gradual boundary.
- C 64-80cm. Brown (10YR 4/3) sandy clay loam with 25% black (10YR 2/1) pockets of cemented sandy clay. Weak medium sub-angular blocky structure.
- 2C 80+cm. Dark grayish brown (2.5Y 4/2) sandy clay. Massive structure.

JB67D:

- Oap 0-15cm. Black (N 2.5/0) sandy loam with 90% organically coated sand grains. Weak medium granular structure. Clear boundary.
- Oa 15-25cm. Black (N 2.5/0) sapric muck. Moderate medium sub-angular blocky structure. Clear boundary.
- Bw 25-45cm. Very dark gray (10YR 3/1) sandy loam with 2% gray (10YR 6/1) sand along root channels. Weak medium sub-angular blocky structure. Gradual boundary.
- BC 45-58cm. Dark yellowish brown (10YR 4/4) loamy sand with 5% light gray (10YR 7/1) sand grains. Weak medium sub-angular blocky structure. Gradual boundary.
- C 58-78cm. Olive brown (2.5Y 4/3) sandy loam. Weak medium sub-angular blocky structure. Abrupt boundary.
- 2C 78+cm. Black (N 2.5/0) sandy clay. Massive structure.

JB68C:

- Oap 0-19cm. Black (N 2.5/0) sapric muck. Strong medium granular structure. Clear boundary.
- Oa 19-37cm. Black (10YR 2/1) sapric muck. Weak coarse prismatic structure. Clear boundary.
- Bw1 37-53cm. Very dark grayish brown (10YR 3/2) sapric muck. Weak coarse prismatic structure. Gradual boundary.
- Bw2 53-101cm. Very dark gray (10YR 3/1) mucky loam. Weak coarse prismatic structure. Clear boundary.
- Bh 101-110cm. Black (N 2.5/0) sandy clay loam. Massive structure. Clear boundary. Cemented. Possible buried A.
- C 110+cm. Olive brown (2.5Y 4/3) sand. Single grain structure.

JB68C:

- Oap 0-18cm. Black (N 2.5/0) sapric muck. Strong medium granular structure. Clear boundary.
- Oa 18-37cm. Very dark brown (10YR 2/2) sapric muck. Weak very coarse prismatic structure. Clear boundary.
- Bw1 37-45cm. Very dark grayish brown (10YR 3/2) sapric muck. Weak very coarse prismatic structure. Gradual boundary.

- Bw2 45-77cm. Dark brown (10YR 3/3) mucky loam. Weak very coarse prismatic structure. Gradual boundary.
- Bw3 77-112cm. Very dark brown (10YR 2/2) loam. Weak very coarse prismatic structure. Clear boundary.
- Bh 112+cm. Black (10YR 2/1) loamy sand. Massive structure. Cemented. Possible buried A.