Print Date: Nov 10 2018 Description Date: Jul 17 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_001 Site ID: S2018AK090001

Pedon ID: S2018AK090001 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0059 Soil Name as Described/Sampled: steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: convex Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ochric epipedon 0 to 10 cm. cambic horizon 10 to 25 cm. paralithic contact 76 to 100 cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1743090 Std Longitude: -147.4785130 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation: Parent Material:** Bedrock Kind: **Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval:** Surface Fragments: Description database: KSSL

Top Depth (cm)	Bottom Depth (cm)	Restriction Kind	Restriction Hardness
76	100	bedrock, paralithic	

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
34.0	378.0	140						well		

Oe--0 to 10 centimeters (0.0 to 3.9 inches); moderately decomposed plant material; many very fine roots and many medium roots and many fine roots and many coarse roots; clear smooth boundary. Lab sample # 19N00321

Bw--10 to 25 centimeters (3.9 to 9.8 inches); silt loam; moderate medium subangular blocky structure; friable, nonsticky, nonplastic; common very fine roots and common medium roots and many fine roots and common coarse roots; 2 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments and 5 percent flat angular strongly cemented 150 to 380-millimeter Sandstone fragments; clear wavy boundary. Lab sample # 19N00322

BC--25 to 52 centimeters (9.8 to 20.5 inches); extremely channery silt loam; weak medium subangular blocky structure; friable, nonsticky, nonplastic; common medium roots and common fine roots; 25 percent flat angular strongly cemented 150 to 380millimeter Sandstone fragments and 40 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; diffuse wavy boundary. Lab sample # 19N00323

C--52 to 76 centimeters (20.5 to 29.9 inches); extremely flaggy sandy loam; structureless massive; friable, nonsticky, nonplastic; 25 percent flat angular strongly cemented 150 to 380-millimeter Sandstone fragments and 55 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear wavy boundary. Lab sample # 19N00324

Cr--76 to 100 centimeters (29.9 to 39.4 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 18 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_002 Site ID: S2018AK090002

Pedon ID: S2018AK090002 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0060 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: convex Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ochric epipedon 0 to 16 cm. cambic horizon 16 to 33 cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1634124 Std Longitude: -147.5275269 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation: Parent Material:** Bedrock Kind: **Bedrock Depth: Bedrock Hardness:**

Bedrock Fracture Interval:

Description database: KSSL

Surface Fragments:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
16.0	496.0	193						well		

Oe--0 to 5 centimeters (0.0 to 2.0 inches); moderately decomposed plant material; many very fine roots and common medium roots and common fine roots and many coarse roots; clear smooth boundary. Lab sample # 19N00325

A--5 to 16 centimeters (2.0 to 6.3 inches); very dark brown (7.5YR 2.5/2) broken face silt loam; 6 percent clay; moderate medium granular structure; friable, nonsticky, nonplastic; common very fine roots and common medium roots and common fine roots and common coarse roots; 10 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00326

Bw--16 to 33 centimeters (6.3 to 13.0 inches); brown (10YR 4/3) broken face channery silt loam; 6 percent clay; moderate medium subangular blocky structure; friable, nonsticky, nonplastic; common medium roots and common fine roots; 20 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; diffuse smooth boundary. Lab sample # 19N00327

C--33 to 110 centimeters (13.0 to 43.3 inches); olive brown (2.5Y 4/3) broken face channery silt loam; 6 percent clay; structureless massive; friable, nonsticky, nonplastic; common medium roots; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments. Lab sample # 19N00328

Print Date: Nov 10 2018 Description Date: Jul 17 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_003 Site ID: S2018AK090003

Pedon ID: S2018AK090003 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0061 Soil Name as Described/Sampled: Histic Pergelic Cryaguept **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: concave Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.2009577 Std Longitude: -147.4865847 Latitude: Longitude: Datum:

UTM Zone: UTM Easting: UTM Northing:

Primary Earth Cover: Secondary Earth Cover: Existing Vegetation: Parent Material: Bedrock Kind: Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval: Surface Fragments: Description database: KSSL

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
34.0	583.0	322						well		

Oi--0 to 9 centimeters (0.0 to 3.5 inches); dark reddish brown (5YR 3/3) rubbed slightly decomposed plant material; many very fine roots and common medium roots and many fine roots; extremely acid, pH 4.1; clear smooth boundary. Lab sample # 19N00329

Oe--9 to 16 centimeters (3.5 to 6.3 inches); very dark brown (7.5YR 2.5/2) rubbed moderately decomposed plant material; many very fine roots and common medium roots and common fine roots; very strongly acid, pH 4.7; clear smooth boundary. Lab sample # 19N00330

A--16 to 26 centimeters (6.3 to 10.2 inches); very dark brown (10YR 2/2) broken face highly organic silt loam; 10 percent sand; 6 percent clay; weak medium granular structure; friable, nonsticky, nonplastic; common very fine roots and common medium roots and common fine roots; very strongly acid, pH 4.9; abrupt irregular boundary. Lab sample # 19N00331

Bw1--26 to 50 centimeters (10.2 to 19.7 inches); 70 percent dark grayish brown (10YR 4/2) broken face and 30 percent dark brown (10YR 3/3) broken face channery silt loam; 35 percent sand; 7 percent clay; weak fine subangular blocky structure; friable, nonsticky, nonplastic; common very fine roots and common fine roots; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; very strongly acid, pH 5.0; gradual smooth boundary. Lab sample # 19N00332

Bw2--50 to 95 centimeters (19.7 to 37.4 inches); brown (10YR 4/3) broken face channery sandy loam; 50 percent sand; 6 percent clay; weak medium subangular blocky structure; friable, nonsticky, nonplastic; common very fine roots; 20 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; very strongly acid, pH 5.0; abrupt smooth boundary. Lab sample # 19N00333

Ab--95 to 105 centimeters (37.4 to 41.3 inches); very dark brown (7.5YR 2.5/2) broken face highly organic silt loam; 8 percent sand; 5 percent clay; weak medium granular structure; friable, nonsticky, nonplastic; very strongly acid, pH 4.9; abrupt smooth boundary. Lab sample # 19N00334

2C--105 to 120 centimeters (41.3 to 47.2 inches); very dark grayish brown (2.5Y 3/2) broken face channery sandy loam; 45 percent sand; 7 percent clay; very friable, nonsticky, nonplastic; 30 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; strongly acid, pH 5.2. Lab sample # 19N00335

Print Date: Nov 10 2018 Description Date: Jul 19 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_007 Site ID: S2018AK090007

Pedon ID: S2018AK090007 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0062 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ochric epipedon 0 to 15 cm. cambic horizon 15 to 68 cm. paralithic contact 68 to 100 cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1935447 Std Longitude: -147.4448096 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation: Parent Material:**

Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Description database: KSSL

Top Depth (cm)Bottom Depth (cm)Restriction KindRestriction Hardness68100bedrock, paralithic

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
22.0	416.0	86						well		

Oe--0 to 9 centimeters (0.0 to 3.5 inches); very dark brown (7.5YR 2.5/2) rubbed moderately decomposed plant material; many very fine roots and common medium roots and common fine roots and many coarse roots; clear smooth boundary. Lab sample # 19N00336

A/E--9 to 15 centimeters (3.5 to 5.9 inches); 65 percent black (10YR 2/1) broken face and 35 percent very dark grayish brown (10YR 3/2) broken face very flaggy silt loam; weak coarse granular structure; friable, nonsticky, nonplastic; common very fine roots and common medium roots and common fine roots; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments and 25 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments; clear irregular boundary. Lab sample # 19N00337

Bw--15 to 68 centimeters (5.9 to 26.8 inches); dark yellowish brown (10YR 4/4) broken face extremely channery sandy loam; weak medium subangular blocky structure; friable, nonsticky, nonplastic; common very fine roots and common fine roots; 25 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments and 60 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; abrupt irregular boundary. Lab sample # 19N00338

Cr--68 to 110 centimeters (26.8 to 43.3 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 20 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_008 Site ID: S2018AK090008

Pedon ID: S2018AK090008 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0063 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1565240 Std Longitude: -147.5696990 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation:**

Parent Material: Bedrock Kind:

Bedrock Depth: Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
30.0	429.0	205						well		

Oe--0 to 12 centimeters (0.0 to 4.7 inches); moderately decomposed plant material; clear smooth boundary. Lab sample # 19N00339

Bw--12 to 37 centimeters (4.7 to 14.6 inches); silt loam; very friable, nonsticky, nonplastic; gradual smooth boundary. Lab sample # 19N00340

BC--37 to 56 centimeters (14.6 to 22.0 inches); silt loam; very friable, nonsticky, nonplastic; gradual wavy boundary. Lab sample # 19N00341

Cf--56 to 78 centimeters (22.0 to 30.7 inches); very channery fine sandy loam; very friable, nonsticky, nonplastic; 45 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear wavy boundary. Lab sample # 19N00342

2Cr--78 to 120 centimeters (30.7 to 47.2 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 19 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_010 Site ID: S2018AK090010

Pedon ID: S2018AK090010 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0064 Soil Name as Described/Sampled: HisticPergelic Cryaguept **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on toeslope of None Assigned Upslope Shape: linear Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1573720 Std Longitude: -147.4743100 Latitude: Longitude: Datum: UTM Zone: UTM Easting:

Primary Earth Cover: Secondary Earth Cover: Existing Vegetation: Parent Material: Bedrock Kind: Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval: Surface Fragments: Description database: KSSL

UTM Northing:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
7.0	256.0	265						poorly		

Oe--0 to 10 centimeters (0.0 to 3.9 inches); moderately decomposed plant material; clear smooth boundary. Lab sample # 19N00343

A--10 to 30 centimeters (3.9 to 11.8 inches); mucky silt loam; friable, nonsticky, nonplastic; abrupt broken boundary. Lab sample # 19N00344

Ajj/Bjj--30 to 45 centimeters (11.8 to 17.7 inches); silt loam; friable, nonsticky, nonplastic; abrupt broken boundary. Lab sample # 19N00345

Bjj/Ajj--45 to 60 centimeters (17.7 to 23.6 inches); fine sandy loam; friable, nonsticky, nonplastic; abrupt wavy boundary. Lab sample # 19N00346

Oeb--60 to 70 centimeters (23.6 to 27.6 inches); mucky peat; abrupt wavy boundary. Lab sample # 19N00347

Cjj/Ajj--70 to 95 centimeters (27.6 to 37.4 inches); silt loam; friable, nonsticky, nonplastic; clear wavy boundary. Lab sample # 19N00348

Cf--95 to 110 centimeters (37.4 to 43.3 inches); silt loam; .

Print Date: Nov 10 2018 Description Date: Jul 18 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_013 Site ID: S2018AK090013

Pedon ID: S2018AK090013 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0065 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: concave Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1767632 Std Longitude: -147.5597875 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation: Parent Material:** Bedrock Kind:

Bedrock Depth: Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
24.0	555.0	80						well		

Oe--0 to 7 centimeters (0.0 to 2.8 inches); moderately decomposed plant material; clear smooth boundary. Lab sample # 19N00349

A--7 to 11 centimeters (2.8 to 4.3 inches); silt loam; 20 percent sand; 4 percent clay; very friable, nonsticky, nonplastic; 3 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00350

E--11 to 17 centimeters (4.3 to 6.7 inches); silt loam; 15 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 5 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00351

Bw--17 to 27 centimeters (6.7 to 10.6 inches); channery silt loam; 18 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 2 percent medium prominent irregular 5YR 3/4), moist, masses of oxidized iron with clear boundaries Throughout; 15 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; gradual smooth boundary. Lab sample # 19N00352

2C--27 to 80 centimeters (10.6 to 31.5 inches); very channery sandy loam; 60 percent sand; 4 percent clay; very friable, nonsticky, nonplastic; 55 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; gradual smooth boundary. Lab sample # 19N00353

2Cr--80 to 110 centimeters (31.5 to 43.3 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 17 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_015 Site ID: S2018AK090015

Pedon ID: S2018AK090015 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0066 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1766500 Std Longitude: -147.5022680 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation:**

Parent Material: Bedrock Kind:

Bedrock Depth: Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
25.0	476.0	196						well		

Oe--0 to 7 centimeters (0.0 to 2.8 inches); moderately decomposed plant material; abrupt smooth boundary. Lab sample # 19N00354

Bw--7 to 34 centimeters (2.8 to 13.4 inches); extremely channery silt loam; 23 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 30 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments and 50 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00355

BC--34 to 63 centimeters (13.4 to 24.8 inches); extremely channery silt loam; 25 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 30 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments and 50 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; diffuse smooth boundary. Lab sample # 19N00356

2C--63 to 80 centimeters (24.8 to 31.5 inches); extremely channery sandy loam; 60 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 30 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments and 50 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear wavy boundary. Lab sample # 19N00357

2Cr--80 to 110 centimeters (31.5 to 43.3 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 17 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_016 Site ID: S2018AK090016

Pedon ID: S2018AK090016 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0067 Soil Name as Described/Sampled: HisticPergelic Cryaguept **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1997872 Std Longitude: -147.5077565 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing:**

Primary Earth Cover: Secondary Earth Cover: Existing Vegetation: Parent Material: Bedrock Kind: Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval: Surface Fragments: Description database: KSSL

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
23.0	661.0	352						well		

Oi--0 to 18 centimeters (0.0 to 7.1 inches); peat; extremely acid, pH 4.1; clear smooth boundary. Lab sample # 19N00358

A--18 to 20 centimeters (7.1 to 7.9 inches); highly organic silt loam; 16 percent sand; 5 percent clay; very friable, nonsticky, nonplastic; 1 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; very strongly acid, pH 4.8; clear smooth boundary. Lab sample # 19N00359

AB--20 to 45 centimeters (7.9 to 17.7 inches); channery silt loam; 40 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; strongly acid, pH 5.2; clear smooth boundary. Lab sample # 19N00360

Bw--45 to 75 centimeters (17.7 to 29.5 inches); very channery loam; 45 percent sand; 9 percent clay; very friable, nonsticky, nonplastic; 2 percent medium distinct irregular 5Y 4/1), moist, iron depletions with clear boundaries Throughout and 3 percent medium prominent irregular 10YR 4/6), moist, masses of oxidized iron with clear boundaries Throughout; 35 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; moderately acid, pH 5.8; clear smooth boundary. Lab sample # 19N00361

R--75 to 120 centimeters (29.5 to 47.2 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 16 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_018 Site ID: S2018AK090018

Pedon ID: S2018AK090018 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0068 Soil Name as Described/Sampled: HisticPergelic Cryaguept **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on shoulder of None Assigned Upslope Shape: linear Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65,1932430 Std Longitude: -147.5378460 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation: Parent Material:** Bedrock Kind: **Bedrock Depth:**

Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
16.0	641.0	320						well		

Oe--0 to 10 centimeters (0.0 to 3.9 inches); moderately decomposed plant material; clear wavy boundary. Lab sample # 19N00362

A--10 to 12 centimeters (3.9 to 4.7 inches); channery silt loam; 20 percent sand; 6 percent clay; friable, nonsticky, nonplastic; 20 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; abrupt wavy boundary. Lab sample # 19N00363

AB--12 to 34 centimeters (4.7 to 13.4 inches); extremely flaggy silt loam; 20 percent sand; 8 percent clay; friable, nonsticky, nonplastic; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments and 55 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments; clear irregular boundary. Lab sample # 19N00364

Bw--34 to 70 centimeters (13.4 to 27.6 inches); extremely channery silt loam; 25 percent sand; 8 percent clay; friable, nonsticky, nonplastic; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments and 50 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments; abrupt wavy boundary. Lab sample # 19N00365

Cr--70 to 110 centimeters (27.6 to 43.3 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 17 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_019 Site ID: S2018AK090019

Pedon ID: S2018AK090019 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0069 Soil Name as Described/Sampled: typic cryochrept **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on shoulder of None Assigned Upslope Shape: convex Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1982723 Std Longitude: -147.4814555 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation:**

Parent Material: Bedrock Kind:

Bedrock Depth: Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
17.0	690.0	338						well		

Oe--0 to 5 centimeters (0.0 to 2.0 inches); moderately decomposed plant material; abrupt smooth boundary. Lab sample # 19N00366

A--5 to 9 centimeters (2.0 to 3.5 inches); channery silt loam; 22 percent sand; 5 percent clay; very friable, nonsticky, nonplastic; 20 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00367

AB--9 to 27 centimeters (3.5 to 10.6 inches); channery silt loam; 22 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 5 percent medium distinct irregular 5YR 3/4), moist, masses of oxidized iron with clear boundaries Throughout; 20 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00368

Bw--27 to 44 centimeters (10.6 to 17.3 inches); channery silt loam; 20 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 10 percent medium distinct irregular 2.5Y 2.5/3) masses of oxidized iron with clear boundaries Throughout; 15 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00369

ABb--44 to 60 centimeters (17.3 to 23.6 inches); silt loam; 20 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 3 percent medium distinct irregular masses of oxidized iron with clear boundaries Throughout; 10 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00370

B'w--60 to 67 centimeters (23.6 to 26.4 inches); channery silt loam; 25 percent sand; 6 percent clay; friable, nonsticky, nonplastic; 25 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear smooth boundary. Lab sample # 19N00371

R--67 to 110 centimeters (26.4 to 43.3 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 20 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_021 Site ID: S2018AK090021

Pedon ID: S2018AK090021 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0070 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on shoulder of None Assigned Upslope Shape: convex Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1514911 Std Longitude: -147.4569545 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:**

Secondary Earth Cover: Existing Vegetation: Parent Material: Bedrock Kind: Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval: Surface Fragments: Description database: KSSL

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
19.0	445.0	256						well		

Oe--0 to 6 centimeters (0.0 to 2.4 inches); moderately decomposed plant material; very strongly acid, pH 4.7; abrupt smooth boundary. Lab sample # 19N00372

A--6 to 9 centimeters (2.4 to 3.5 inches); silt loam; 16 percent sand; 5 percent clay; very friable, nonsticky, nonplastic; very strongly acid, pH 4.8; clear irregular boundary. Lab sample # 19N00373

AE--9 to 14 centimeters (3.5 to 5.5 inches); very flaggy silt loam; 25 percent sand; 5 percent clay; friable, nonsticky, nonplastic; 15 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments and 45 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments; strongly acid, pH 5.4; clear irregular boundary. Lab sample # 19N00374

Bw1--14 to 29 centimeters (5.5 to 11.4 inches); very channery silt loam; 35 percent sand; 5 percent clay; very friable, nonsticky, nonplastic; 45 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; moderately acid, pH 5.7; clear smooth boundary. Lab sample # 19N00375

Bw2--29 to 58 centimeters (11.4 to 22.8 inches); very channery silt loam; 40 percent sand; 7 percent clay; very friable, nonsticky, nonplastic; 20 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments and 40 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; moderately acid, pH 5.6; very abrupt irregular boundary. Lab sample # 19N00376

R--58 to 110 centimeters (22.8 to 43.3 inches); bedrock; .

Print Date: Nov 10 2018 Description Date: Jul 19 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_022 Site ID: S2018AK090022

Pedon ID: S2018AK090022 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0071 Soil Name as Described/Sampled: HisticPergelic Cryaguept **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on toeslope of None Assigned Upslope Shape: concave Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska **County:** Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1573882 Std Longitude: -147.4787172 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:**

Secondary Earth Cover: Existing Vegetation: Parent Material: Bedrock Kind: Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval: Surface Fragments: Description database: KSSL

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
9.0	245.0	244						very poorly		

Oe--0 to 8 centimeters (0.0 to 3.1 inches); mucky peat; clear smooth boundary. Lab sample # 19N00377

A--8 to 16 centimeters (3.1 to 6.3 inches); silt loam; 18 percent sand; 6 percent clay; very friable, nonsticky, nonplastic; abrupt smooth boundary. Lab sample # 19N00378

Cg/Ajj1--16 to 40 centimeters (6.3 to 15.7 inches); silt loam; 15 percent sand; 6 percent clay; friable, nonsticky, nonplastic; 10 percent coarse prominent irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries Throughout; clear irregular boundary. Lab sample # 19N00379

Cg/Ojj--40 to 80 centimeters (15.7 to 31.5 inches); silt loam; 15 percent sand; 8 percent clay; friable, nonsticky, nonplastic; clear irregular boundary. Lab sample # 19N00380

Cf--80 to 110 centimeters (31.5 to 43.3 inches); silt loam; . Lab sample # 19N00381

Print Date: Nov 10 2018 Description Date: Jul 18 2018 Describer: Dennis Mulligan NEON Plot ID: BONA_023 Site ID: S2018AK090023

Pedon ID: S2018AK090023 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0072 Soil Name as Described/Sampled: HisticPergelic Cryaguepts **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on footslope of None Assigned Upslope Shape: linear Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1655930 Std Longitude: -147.5115910 Latitude: Longitude: Datum: UTM Zone:

Primary Earth Cover: Secondary Earth Cover: Existing Vegetation: Parent Material: Bedrock Kind: Bedrock Depth: Bedrock Hardness: Bedrock Fracture Interval: Surface Fragments: Description database: KSSL

UTM Easting:

UTM Northing:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
20.0	353.0	60						well		

Oe--0 to 6 centimeters (0.0 to 2.4 inches); moderately decomposed plant material; clear smooth boundary. Lab sample # 19N00382

B/Ajj--6 to 21 centimeters (2.4 to 8.3 inches); silt loam; 25 percent sand; 5 percent clay; friable, nonsticky, nonplastic; 2 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments and 3 percent flat angular strongly cemented 150 to 380-millimeter Sandstone fragments; clear wavy boundary. Lab sample # 19N00383

C1--21 to 46 centimeters (8.3 to 18.1 inches); extremely channery sandy loam; 70 percent sand; 5 percent clay; friable, nonsticky, nonplastic; 25 percent flat angular strongly cemented 150 to 380-millimeter Schist fragments and 50 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear wavy boundary. Lab sample # 19N00384

C2--46 to 110 centimeters (18.1 to 43.3 inches); extremely channery sandy loam; 70 percent sand; 5 percent clay; friable, nonsticky, nonplastic; 20 percent flat angular strongly cemented 150 to 380-millimeter Sandstone fragments and 55 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments.

Print Date: Nov 10 2018 Description Date: Jul 18 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_027 Site ID: S2018AK090027

Pedon ID: S2018AK090027 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0073 Soil Name as Described/Sampled: Steese **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: on backslope of None Assigned Upslope Shape: linear Cross Slope Shape: convex Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1628256 Std Longitude: -147.5960264 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation: Parent Material:** Bedrock Kind:

Bedrock Depth: Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
41.0	477.0	308						well		

Oe--0 to 5 centimeters (0.0 to 2.0 inches); moderately decomposed plant material; clear smooth boundary. Lab sample # 19N00386

A/E--5 to 10 centimeters (2.0 to 3.9 inches); silt loam; 20 percent sand; 7 percent clay; friable, nonsticky, nonplastic; 5 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear wavy boundary. Lab sample # 19N00387

Bw--10 to 28 centimeters (3.9 to 11.0 inches); silt loam; 20 percent sand; 8 percent clay; friable, nonsticky, nonplastic; 3 percent medium distinct irregular 10YR 3/6), moist, masses of oxidized iron with clear boundaries Throughout; 10 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; clear irregular boundary.

2C--28 to 105 centimeters (11.0 to 41.3 inches); loam; 50 percent sand; 8 percent clay; very friable, nonsticky, nonplastic; 50 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments.

Print Date: Nov 10 2018 Description Date: Jul 19 2018 Describer: Stephanie Schmit NEON Plot ID: BONA_028 Site ID: S2018AK090028

Pedon ID: S2018AK090028 Site Note: Pedon Note: Lab Source ID: KSSL Lab Pedon #: 19N0074 Soil Name as Described/Sampled: Fairbanks **Classification:** Soil Name as Correlated: **Classification:** Pedon Type: Pedon Purpose: research site Taxon Kind: Associated Soils: **Physiographic Division:** Physiographic Province: Alaskan Province Physiographic Section: Yukon-Tanana Upland section State Physiographic Area: Local Physiographic Area: Geomorphic Setting: None Assigned Upslope Shape: linear Cross Slope Shape: linear Particle Size Control Section: **Description origin: NASIS** Diagnostic Features: ? to ? cm.

Country: United States State: Alaska County: Fairbanks North Star Borough MLRA: 231 -- Interior Alaska Highlands Soil Survey Area: AK642 -- North Star Area, Alaska AK231 -- Interior Alaska Highlands 1-FAI -- Fairbanks, Alaska Map Unit: Pit Location: Quad Name: Std Latitude: 65.1768491 Std Longitude: -147.4560296 Latitude: Longitude: Datum: UTM Zone: UTM Easting: **UTM Northing: Primary Earth Cover:** Secondary Earth Cover: **Existing Vegetation:**

Parent Material: Bedrock Kind:

Bedrock Depth: Bedrock Hardness:

Surface Fragments:

Bedrock Fracture Interval:

Slope	Elevation	Aspect	MAAT	MSAT	MWAT	MAP	Frost-Free	Drainage	Slope Length	Upslope Length
(%)	(meters)	(deg)	(C)	(C)	(C)	(mm)	Days	Class	(meters)	(meters)
3.0	271.0	127						well		

Oe--0 to 9 centimeters (0.0 to 3.5 inches); moderately decomposed plant material; clear smooth boundary. Lab sample # 19N00390

Oa/C--9 to 31 centimeters (3.5 to 12.2 inches); highly decomposed plant material; abrupt wavy boundary. Lab sample # 19N00391

Bw--31 to 47 centimeters (12.2 to 18.5 inches); silt loam; 45 percent sand; 5 percent clay; friable, nonsticky, nonplastic; 5 percent medium distinct irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries Throughout; clear smooth boundary. Lab sample # 19N00392

C1--47 to 70 centimeters (18.5 to 27.6 inches); silt loam; 60 percent sand; 4 percent clay; friable, nonsticky, nonplastic; 7 percent medium distinct irregular 10YR 3/6), moist, masses of oxidized iron with clear boundaries Throughout; 2 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments; gradual smooth boundary. Lab sample # 19N00393

C2--70 to 110 centimeters (27.6 to 43.3 inches); silt loam; 30 percent sand; 4 percent clay; friable, nonsticky, nonplastic; 5 percent fine prominent irregular 7.5YR 4/6), moist, masses of oxidized iron with clear boundaries Throughout; 15 percent flat angular strongly cemented 2 to 150-millimeter Schist fragments. Lab sample # 19N00394