



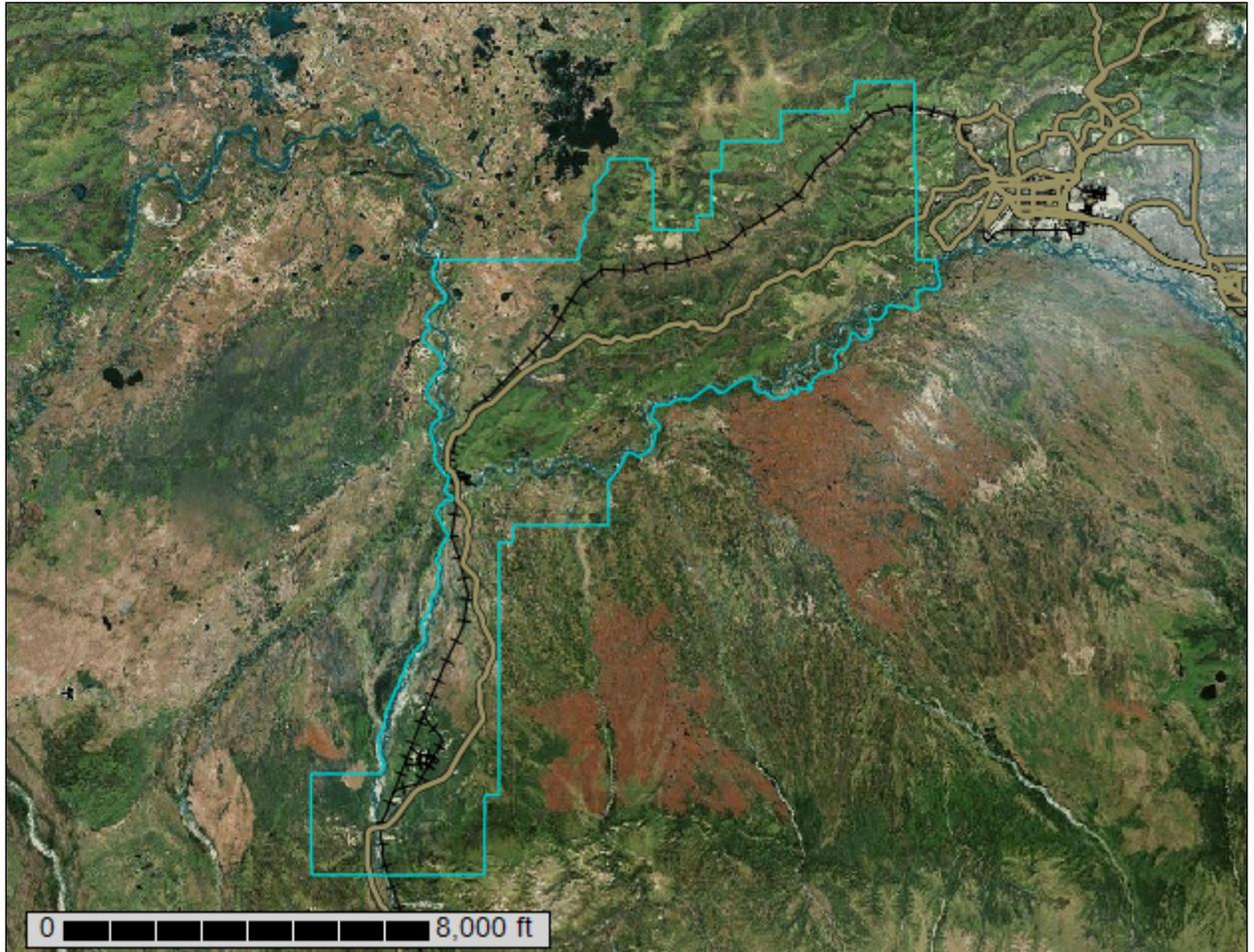
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

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Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Greater Nenana Area, Alaska**



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<http://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Soil Information for All Uses

Soil Reports

The Soil Reports section includes various formatted tabular and narrative reports (tables) containing data for each selected soil map unit and each component of each unit. No aggregation of data has occurred as is done in reports in the Soil Properties and Qualities and Suitabilities and Limitations sections.

The reports contain soil interpretive information as well as basic soil properties and qualities. A description of each report (table) is included.

Land Classifications

This folder contains a collection of tabular reports that present a variety of soil groupings. The reports (tables) include all selected map units and components for each map unit. Land classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Hydric Soil List - All Components

This table lists the map unit components and their hydric status in the survey area. This list can help in planning land uses; however, onsite investigation is recommended to determine the hydric soils on a specific site (National Research Council, 1995; Hurt and others, 2002).

The three essential characteristics of wetlands are hydrophytic vegetation, hydric soils, and wetland hydrology (Cowardin and others, 1979; U.S. Army Corps of Engineers, 1987; National Research Council, 1995; Tiner, 1985). Criteria for all of the characteristics must be met for areas to be identified as wetlands. Undrained hydric soils that have natural vegetation should support a dominant population of ecological wetland plant species. Hydric soils that have been converted to other uses should be capable of being restored to wetlands.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part

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(Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

The NTCHS definition identifies general soil properties that are associated with wetness. In order to determine whether a specific soil is a hydric soil or nonhydric soil, however, more specific information, such as information about the depth and duration of the water table, is needed. Thus, criteria that identify those estimated soil properties unique to hydric soils have been established (Federal Register, 2002). These criteria are used to identify map unit components that normally are associated with wetlands. The criteria used are selected estimated soil properties that are described in "Soil Taxonomy" (Soil Survey Staff, 1999) and "Keys to Soil Taxonomy" (Soil Survey Staff, 2006) and in the "Soil Survey Manual" (Soil Survey Division Staff, 1993).

If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make onsite determinations of hydric soils are specified in "Field Indicators of Hydric Soils in the United States" (Hurt and Vasilas, 2006).

Hydric soils are identified by examining and describing the soil to a depth of about 20 inches. This depth may be greater if determination of an appropriate indicator so requires. It is always recommended that soils be excavated and described to the depth necessary for an understanding of the redoximorphic processes. Then, using the completed soil descriptions, soil scientists can compare the soil features required by each indicator and specify which indicators have been matched with the conditions observed in the soil. The soil can be identified as a hydric soil if at least one of the approved indicators is present.

Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

The criteria for hydric soils are represented by codes in the table (for example, 2). Definitions for the codes are as follows:

1. All Histels except for Folistels, and Histosols except for Folists.
2. Soils in Aquic suborders, great groups, or subgroups, Albolls suborder, Historthels great group, Histoturbels great group, Pachic subgroups, or Cumulic subgroups that:
 - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - B. Show evidence that the soil meets the definition of a hydric soil;
3. Soils that are frequently ponded for long or very long duration during the growing season.
 - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - B. Show evidence that the soil meets the definition of a hydric soil;
4. Map unit components that are frequently flooded for long duration or very long duration during the growing season that:
 - A. Based on the range of characteristics for the soil series, will at least in part meet one or more Field Indicators of Hydric Soils in the United States, or
 - B. Show evidence that the soil meets the definition of a hydric soil;

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Hydric Condition: Food Security Act information regarding the ability to grow a commodity crop without removing woody vegetation or manipulating hydrology.

References:

- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. Doc. 2012-4733 Filed 2-28-12. February, 28, 2012. Hydric soils of the United States.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18.
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service. U.S. Department of Agriculture Handbook 436.
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service.
- Vasilas, L.M., G.W. Hurt, and C.V. Noble, editors. Version 7.0, 2010. Field indicators of hydric soils in the United States.

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Report—Hydric Soil List - All Components

Hydric Soil List - All Components—AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
28DY01: Dystrogelepts-Gelorthents complex, 10 to 30 percent slopes	Dystrogelepts	50-65	Mountains	No	—
	Gelorthents	25-50	Mountains	No	—
	Rock outcrop	0-5	Mountains	Unranked	—
	Turbels	2-10	Depressions on hills	Yes	2
28HA01: Haplocryepts, 45 to 70 percent slopes	Haplocryepts	70-85	Mountains	No	—
	Haplocryepts	5-15	Mountains	No	—
	Turbels	5-15	Depressions on hills	Yes	2
	Rock outcrop	0-5	Hills,mountains	Unranked	—
28HA02: Haplocryepts, 15 to 45 percent slopes	Haplocryepts	70-85	Mountains	No	—
	Haplocryepts	5-15	Mountains	No	—
	Turbels	5-15	Depressions on hills	Yes	2
29BL01: Bolio peat	Bolio	70-85	Flood plains,terraces	Yes	1,3
	Lemeta	5-12	Flood plains,terraces	Yes	1
	Tanacross	0-10	Flood plains	Yes	2
	Water	0-5	Rivers on flood plains,depressions on flood plains,streams on flood plains,lakes on flood plains	Unranked	—
29CR01: Typic Cryorthents-Urban land complex	Urban land	30-60	—	Unranked	—
	Typic Cryorthents-Fill	30-60	Flood plains,terraces	No	—
	Gerstle	0-10	Terraces,alluvial fans	No	—
	Moosehead	0-10	Terraces,alluvial fans	No	—
	Salchaket	0-10	Flood plains	No	—
	Donnelly	0-10	Escarments,terraces, plains,fans,outwash plains	No	—
	Eielson-Rare flooding	0-10	Flood plains	No	—
	Fubar-Rare flooding	0-10	Flood plains	No	—
	Jarvis	0-10	Flood plains,terraces	No	—
	Nenana	0-10	Alluvial fans	No	—
Piledriver-Rare flooding	0-10	Flood plains	No	—	
Sawmill Creek	0-10	Alluvial fans	No	—	

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Volkmar	0-10	Stream terraces	No	—
29DN01: Donnelly silt loam, 0 to 3 percent slopes	Donnelly	80-95	Terraces,plains,fans,o utwash plains	No	—
	Nenana	0-7	Alluvial fans	No	—
	Lupine	0-7	Terraces,fans	No	—
29DN02: Donnelly silt loam, 15 to 60 percent slopes	Donnelly	85-95	Escarpmnts,fans	No	—
	Moosehead	0-7	Terraces,alluvial fans	No	—
	Lupine	0-7	Terraces,fans	No	—
29DN04: Donnelly-Lupine complex	Donnelly	35-60	Terraces,plains,fans,o utwash plains	No	—
	Lupine	15-50	Terraces,fans	No	—
	Nenana	3-12	Alluvial fans	No	—
	Sawmill Creek	0-12	Alluvial fans	No	—
	Browne	0-5	Alluvial fans	Yes	2
	Volkmar	0-7	Stream terraces	No	—
29DU01: Dumps, landfill	Dumps-Landfill	100-100	—	Unranked	—
29EL01: Eielson-Piledriver complex, occasionally flooded	29-Eielson	50-70	Flood plains	No	—
	29-Piledriver-Occasionally flooded	25-40	Flood plains	No	—
	29-Fubar-Occasionally flooded	0-5	Flood plains	No	—
	29-Noonku	0-5	Flood plains	Yes	2,3
	29-Riverwash	0-5	Flood plains	Unranked	—
29EL02: Eielson-Tanana complex	29-Eielson-Rarely flooded	30-60	Flood plains	No	—
	29-Tanana	20-50	Flood plains,terraces	Yes	2,3
	29-Liscum	0-7	Flood plains	Yes	2,3
	29-Tanacross	0-7	Flood plains	Yes	2,3
	29-Noonku	0-10	Flood plains	Yes	2,3
29EL03: Eielson very fine sandy loam	Eielson-Rare flooding	70-90	Flood plains	No	—
	Piledriver-Rare flooding	2-12	Flood plains	No	—
	Noonku	0-10	Flood plains	Yes	2,3
	Liscum	0-7	Flood plains	Yes	2,3
	Tanana	0-7	Flood plains,terraces	Yes	2
29FA01: Faa silt loam, 3 to 30 percent slopes	Faa	85-95	Dunes on flood plains	No	—
	Tanana	0-7	Flood plains,terraces	Yes	2
	Eielson-Rare flooding	0-10	Flood plains	No	—

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
29FU01: Fubar-Piledriver complex, occasionally flooded	29-Fubar-Occasionally flooded	40-60	Flood plains	No	—
	29-Piledriver-Occasionally flooded	30-50	Flood plains	No	—
	29-Eielson	0-5	Flood plains	No	—
	29-Noonku	0-5	Flood plains	Yes	2,3
	29-Riverwash	0-5	Flood plains	Unranked	—
29GE01: Gerstle-Moosehead complex	Gerstle	25-50	Terraces,alluvial fans	No	—
	Moosehead	30-60	Terraces,alluvial fans	No	—
	Lupine	0-7	Terraces,fans	No	—
	Donnelly	0-7	Escarments,terraces, plains,fans,outwash plains	No	—
	Sawmill Creek	0-5	Alluvial fans	No	—
	Histic Cryaquepts	0-5	Depressions on terraces,depressions on fans	Yes	2,3
	Browne	0-5	Alluvial fans	Yes	2
	Volkmar	0-7	Stream terraces	No	—
	Tanana	0-7	Flood plains,terraces	Yes	2
29GE03: Donnelly-Gerstle-Moosehead complex, 1 to 15 percent slopes	Donnelly	20-40	Terraces,plains,fans,outwash plains	No	—
	Moosehead	20-45	Terraces,alluvial fans	No	—
	Gerstle	20-40	Terraces,alluvial fans	No	—
	Windy Creek	5-12	Alluvial fans	Yes	2
	Browne	0-5	Alluvial fans	Yes	2
29HY01: Hydric Cryofibrists-Liscum complex	Hydric Cryofibrists	40-60	Lakeshores on flood plains	Yes	1,3
	Liscum	20-35	Flood plains	Yes	2,3
	Water	5-15	Rivers on flood plains,depressions on flood plains,streams on flood plains,lakes on flood plains	Unranked	—
	Terric Cryohemists	5-15	Depressions on flood plains	Yes	1,3
	Bolio	5-12	Flood plains,terraces	Yes	1,3
29LS01: Liscum-Terric Cryohemists-Bolio complex	Terric Cryohemists	10-60	Depressions on flood plains	Yes	1,3
	Liscum	25-45	Flood plains	Yes	2,3
	Bolio	15-40	Flood plains,terraces	Yes	1,3
	Eielson-Rare flooding	0-10	Flood plains	No	—

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Totatlanika-Very poorly drained	0-7	Flood plains	Yes	2
	Peede	0-7	Depressions on flood plains	Yes	2,3
29LU01: Lupine very fine sandy loam	Lupine	50-80	Terraces,fans	No	—
	Donnelly	0-12	Escarments,terraces, plains,fans,outwash plains	No	—
	Moosehead	0-30	Terraces,alluvial fans	No	—
	Sawmill Creek	0-7	Alluvial fans	No	—
	Volkmar	0-7	Stream terraces	No	—
	Browne	0-5	Alluvial fans	Yes	2
29MS01: Mosquito peat	Mosquito	65-80	Depressions on flood plains	Yes	2,3
	Tanacross	5-12	Flood plains	Yes	2
	Tanana	0-7	Flood plains,terraces	Yes	2
	Bolio	0-7	Flood plains,terraces	Yes	1,3
	Water	0-5	Rivers on flood plains,depressions on flood plains,streams on flood plains,lakes on flood plains	Unranked	—
	Liscum	0-5	Flood plains	Yes	2,3
	Peede	0-7	Depressions on flood plains	Yes	2,3
	Eielson-Rare flooding	0-5	Flood plains	No	—
29NE01: Nenana silt loam, 0 to 3 percent slopes	29-Nenana	65-80	Alluvial fans	No	—
	29-Lupine	0-7	Alluvial fans,fan terraces	No	—
	29-Donnelly	0-10	Alluvial fans	No	—
	29-Moosehead	0-7	Terraces,alluvial fans	No	—
	29-Richardson	0-7	Stream terraces	No	—
	29-Sawmill Creek	0-7	Alluvial fans	No	—
	29-Histic Cryaquepts	0-5	Depressions on terraces	Yes	2,3
	29-Volkmar	0-5	Stream terraces	No	—
29NE02: Nenana-Sawmill Creek complex	Nenana	25-60	Alluvial fans	No	—
	Sawmill Creek	35-50	Alluvial fans	No	—
	Richardson	0-7	Stream terraces	No	—
	Browne	0-5	Alluvial fans	Yes	2

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Volkmar	0-7	Stream terraces	No	—
29NN01: Noonku very fine sandy loam	Noonku	75-85	Flood plains	Yes	2,3
	Tanacross	0-7	Flood plains	Yes	2
	Liscum	0-7	Flood plains	Yes	2,3
	Piledriver-Occasional flooding	0-7	Flood plains	No	—
	Tanana	0-7	Flood plains,terraces	Yes	2
29PE01: Peede silt loam, ponded	Peede	60-90	Depressions on flood plains	Yes	2,3
	Liscum	0-15	Flood plains	Yes	2,3
	Water	2-10	Rivers on flood plains,depressions on flood plains,streams on flood plains,lakes on flood plains	Unranked	—
	Mosquito	5-10	Depressions on flood plains	Yes	2,3
29PL01: Eielson-Piledriver complex	29-Eielson-Rarely flooded	30-60	Flood plains	No	—
	29-Piledriver	25-60	Flood plains	No	—
	29-Noonku	0-7	Flood plains	Yes	2,3
	29-Tanana	0-7	Flood plains,terraces	Yes	2,3
	29-Salchaket	0-7	Flood plains	No	—
	29-Fubar	0-5	Flood plains	No	—
	29-Riverwash	0-5	Flood plains	Unranked	—
29PT01: Pits, gravel	29-Pits-Gravel	100-100	—	Unranked	—
29SA01: Sawmill Creek silt loam	29-Sawmill Creek	75-90	Alluvial fans	No	—
	29-Gerstle	0-15	Terraces,alluvial fans	No	—
	29-Browne	0-10	Alluvial fans	Yes	2
29TA01: Tatlanika-Totatlanika complex	Tatlanika-Very poorly drained	30-60	Flood plains	Yes	2
	Totatlanika-Very poorly drained	20-40	Flood plains	Yes	2
	Liscum	2-12	Flood plains	Yes	2,3
	Peede	0-7	Depressions on flood plains	Yes	2,3
	Bolio	0-5	Flood plains,terraces	Yes	1,3
	Terric Cryohemists	0-5	Depressions on flood plains	Yes	1,3
29TC01: Tanacross peat	29-Tanacross	70-80	Flood plains	Yes	2,3
	29-Noonku	0-7	Flood plains	Yes	2,3

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	29-Eielson-Rarely flooded	0-10	Flood plains	No	—
	29-Jarvis	0-7	Flood plains,terraces	No	—
	29-Tanana	0-7	Flood plains,terraces	Yes	2,3
	29-Liscum	0-7	Flood plains	Yes	2,3
29TE01: Typic Cryaquents, Liscum and Terric Cryohemists soils, flood plains	Typic Cryaquents-Frequent long ponding	10-50	Flood plains	Yes	2,3
	Liscum	10-50	Flood plains	Yes	2,3
	Terric Cryohemists	10-50	Depressions on flood plains	Yes	1,3
	Water	2-15	Rivers on flood plains,depressions on flood plains,streams on flood plains,lakes on flood plains	Unranked	—
	Bolio	2-15	Flood plains,terraces	Yes	1,3
29TN01: Tanana silt loam	29-Tanana	65-90	Flood plains,terraces	Yes	2,3
	29-Tanacross	2-15	Flood plains	Yes	2,3
	29-Noonku	0-10	Flood plains	Yes	2,3
	29-Jarvis	0-10	Terraces on flood plains	No	—
29TN02: Tanana-Mosquito complex	Tanana	50-70	Flood plains,terraces	Yes	2
	Mosquito	15-25	Depressions on flood plains	Yes	2,3
	Piledriver-Rare flooding	2-12	Flood plains	No	—
	Noonku	0-7	Flood plains	Yes	2,3
	Liscum	0-7	Flood plains	Yes	2,3
29TT01: Totatlanika-Tatlanika complex	Totatlanika-Poorly drained	30-50	Flood plains	Yes	2
	Tatlanika-Poorly drained	20-40	Flood plains	Yes	2
	Liscum	2-12	Flood plains	Yes	2,3
	Terric Cryohemists	5-15	Depressions on flood plains	Yes	1,3
	Hydric Cryofibrists	5-15	Lakeshores on flood plains	Yes	1,3
29TY01: Typic Haplocryepts, sandy	Typic Haplocryepts-Sandy	75-85	Levees on flood plains	No	—
	Piledriver-Rare flooding	5-12	Flood plains	No	—
	Eielson-Rare flooding	0-10	Flood plains	No	—
	Tanana	0-7	Flood plains,terraces	Yes	2

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
29WI01: Windy Creek-Browne complex	Windy Creek	30-50	Alluvial fans	Yes	2
	Browne	30-60	Alluvial fans	Yes	2
	Nenana	0-7	Alluvial fans	No	—
	Histic Cryaquepts	0-7	Depressions on terraces, depressions on fans	Yes	2,3
	Richardson	0-7	Stream terraces	No	—
31BR01: Brigadier-Ester complex, 15 to 45 percent slopes	31-Brigadier	40-60	Hills	No	—
	31-Ester	20-50	Hills	Yes	2
	31-Ester-Greater than 45 percent slopes	0-7	Hills	Yes	2
	31-Brigadier-Less than 15 percent slopes	2-7	Hills	No	—
	31-Manchu	0-5	Hills	No	—
	31-Gilmore	0-10	Hills	No	—
	31-Saulich	0-5	Hills	Yes	2
	31BR02: Brigadier-Ester complex, 45 to 70 percent slopes	31-Brigadier	30-55	Hills	No
31-Ester		20-50	Hills	Yes	2
31-Brigadier-Less than 45 percent slopes		2-7	Hills	No	—
31-Ester-Less than 45 percent slopes		0-7	Hills	Yes	2
31-Manchu		0-5	Hills	No	—
31-Gilmore		0-10	Hills	No	—
31BR03: Brigadier-Manchu complex, 3 to 7 percent slopes	Brigadier	40-60	Hills	No	—
	Manchu	30-50	Hills	No	—
	Brigadier	2-7	Hills	No	—
	Gilmore	0-10	Hills	No	—
	Manchu	0-10	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
31BR04: Brigadier-Manchu complex, 7 to 12 percent slopes	Brigadier	40-60	Hills	No	—
	Manchu	30-50	Hills	No	—
	Manchu	0-10	Hills	No	—
	Brigadier	2-7	Hills	No	—
	Brigadier	2-7	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
	Gilmore	0-5	Hills	No	—

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Hydric Soil List - All Components--AK655-Greater Nenana Area, Alaska					
Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
31BR05: Brigadier-Manchu complex, 12 to 20 percent slopes	Brigadier	40-60	Hills	No	—
	Manchu	30-50	Hills	No	—
	Manchu	0-5	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
	Manchu	0-5	Hills	No	—
	Ester	0-5	Hills	Yes	2
	Brigadier	0-5	Hills	No	—
	Brigadier	0-5	Hills	No	—
	Gilmore	0-5	Hills	No	—
31BR06: Brigadier-Manchu complex, 20 to 30 percent slopes	Brigadier	40-60	Hills	No	—
	Manchu	30-50	Hills	No	—
	Manchu	0-5	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Ester	0-5	Hills	Yes	2
	Rock outcrop	0-5	Hills	Unranked	—
	Brigadier	0-5	Hills	No	—
	Brigadier	0-5	Hills	No	—
	Manchu	0-5	Hills	No	—
31BR07: Brigadier-Manchu complex, 30 to 45 percent slopes	Brigadier	40-60	Hills	No	—
	Manchu	30-50	Hills	No	—
	Manchu	0-5	Hills	No	—
	Brigadier	0-5	Hills	No	—
	Manchu	0-5	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Ester	0-5	Hills	Yes	2
	Rock outcrop	0-5	Hills	Unranked	—
	Brigadier	0-5	Hills	No	—
31CH01: Chatanika silt loam, 0 to 3 percent slopes	Chatanika	70-80	Hills	Yes	2
	Chatanika	5-10	Hills	Yes	2
	Goldstream	2-10	Valley floors	Yes	2,3
	Minto	3-7	Hills	No	—
	Saulich	0-5	Hills	Yes	2
	Histels	0-5	Depressions on terraces, flats on terraces	Yes	1,2,3
	Water	0-5	Depressions on hills, lakes on hills	Unranked	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
31CH02: Chatanika silt loam, 3 to 7 percent slopes	Chatanika	70-80	Hills	Yes	2
	Minto	0-5	Hills	No	—
	Saulich	0-5	Hills	Yes	2
	Goldstream	0-5	Valley floors	Yes	2,3
	Chatanika	0-10	Hills	Yes	2
	Chatanika	0-10	Hills	Yes	2
31CH03: Chatanika silt loam, 7 to 12 percent slopes	Chatanika	70-85	Hills	Yes	2
	Minto	0-10	Hills	No	—
	Chatanika	0-10	Hills	Yes	2
	Saulich	0-5	Hills	Yes	2
	Chatanika	0-10	Hills	Yes	2
	Goldstream	0-5	Valley floors	Yes	2,3
31CH04: Chatanika-Goldstream complex, 0 to 5 percent slopes	Chatanika	40-60	Hills	Yes	2
	Goldstream	25-50	Valley floors	Yes	2,3
	Histels	0-7	Depressions on terraces, flats on terraces	Yes	1,2,3
	Chatanika	0-7	Hills	Yes	2
	Minto	0-7	Hills	No	—
	Saulich	0-7	Hills	Yes	2
	Water	0-5	Depressions on flood plains, lakes on flood plains	Unranked	—
31DU01: Dumps, Mine tailings	Dumps-Mine	100-100	—	Unranked	—
31ES01: Ester peat, 20 to 45 percent slopes	Ester	65-75	Hills	Yes	2
	Ester	0-10	Hills	Yes	2
	Ester	0-5	Hills	Yes	2
	Steese	0-5	Hills	No	—
	Brigadier	0-10	Hills	No	—
	Saulich	0-5	Hills	Yes	2
31ES02: Ester peat, 45 to 70 percent slopes	Ester	70-80	Hills	Yes	2
	Ester	5-10	Hills	Yes	2
	Brigadier	5-10	Hills	No	—
	Saulich	3-10	Hills	Yes	2
	Gilmore	0-10	Hills	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
31FA01: Fairbanks silt loam, 3 to 7 percent slopes	Fairbanks	75-85	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
	Minto	5-12	Hills	No	—
31FA02: Fairbanks silt loam, 7 to 12 percent slopes	31-Fairbanks	75-90	Hills	No	—
	31-Minto	0-10	Hills	No	—
	31-Steese	2-10	Hills	No	—
	31-Fairbanks-Greater than 12 percent slopes	0-15	Hills	No	—
	31-Fairbanks-Less than 7 percent slopes	0-5	Hills	No	—
31FA03: Fairbanks silt loam, 12 to 20 percent slopes	Fairbanks	65-80	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Steese	0-10	Hills	No	—
	Minto	0-5	Hills	No	—
31FA04: Fairbanks silt loam, 20 to 30 percent slopes	31-Fairbanks	75-90	Hills	No	—
	31-Fairbanks-Less than 20 percent slopes	0-15	Hills	No	—
	31-Fairbanks-Greater than 30 percent slopes	0-5	Hills	No	—
	31-Steese	0-10	Hills	No	—
31FA05: Fairbanks silt loam, 30 to 45 percent slopes	Fairbanks	80-90	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Fairbanks	0-5	Hills	No	—
	Steese	0-15	Hills	No	—
31FA06: Fairbanks silt loam, 45 to 70 percent slopes	Fairbanks	70-85	Hills	No	—
	Fairbanks	0-15	Hills	No	—
	Steese	0-10	Hills	No	—
31FA07: Fairbanks silt loams, gullied, 7 to 70 percent slopes	Fairbanks	55-65	Hills	No	—
	Fairbanks	25-65	Hills	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Minto	0-10	Hills	No	—
	Steese	0-10	Hills	No	—
	Typic Cryaquents	0-3	Valley floors	Yes	2,3
31FA08: Fairbanks-Steese complex, 3 to 7 percent slopes	Fairbanks	40-70	Hills	No	—
	Steese	25-60	Hills	No	—
	Steese	0-10	Hills	No	—
	Fairbanks	0-10	Hills	No	—
31FA09: Fairbanks-Steese complex, 7 to 12 percent slopes	Fairbanks	40-70	Hills	No	—
	Steese	25-60	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Fairbanks	0-5	Hills	No	—
	Fairbanks	0-5	Hills	No	—
	Steese	0-5	Hills	No	—
	Steese	0-5	Hills	No	—
31FA10: Fairbanks-Steese complex, 12 to 20 percent slopes	Fairbanks	50-60	Hills	No	—
	Steese	25-40	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Steese	2-5	Hills	No	—
	Gilmore	0-5	Hills	No	—
	Steese	2-5	Hills	No	—
31FA11: Fairbanks-Steese complex, 20 to 30 percent slopes	Fairbanks	30-60	Hills	No	—
	Steese	15-50	Hills	No	—
	Fairbanks	3-15	Hills	No	—
	Steese	3-10	Hills	No	—
	Steese	3-10	Hills	No	—
	Gilmore	0-5	Hills	No	—
31FA12: Fairbanks-Steese complex, 30 to 45 percent slopes	Fairbanks	35-60	Hills	No	—
	Steese	20-50	Hills	No	—
	Steese	2-10	Hills	No	—
	Fairbanks	0-10	Hills	No	—
	Steese	2-10	Hills	No	—
	Gilmore	0-5	Hills	No	—
31GD01: Goldstream peat, 0 to 3 percent	Goldstream	70-85	Valley floors	Yes	2,3
	Saulich	0-5	Hills	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Histels	0-5	Depressions on terraces, flats on terraces	Yes	1,2,3
	Chatanika	2-7	Hills	Yes	2
	Goldstream	0-5	Valley floors	Yes	2,3
	Happy	0-5	Natural levees on flood plains	No	—
	Typic Cryaquents-Frequent long ponding	0-5	Depressions	Yes	2,3
31GD02: Goldstream peat, 3 to 7 percent slopes	Goldstream	70-85	Valley floors	Yes	2,3
	Chatanika	0-15	Hills	Yes	2
	Histels	0-7	Depressions on terraces, flats on terraces	Yes	1,2,3
	Minto	0-5	Hills	No	—
	Goldstream	0-5	Valley floors	Yes	2,3
	Saulich	0-5	Hills	Yes	2
	Typic Cryaquents-Frequent long ponding	0-5	Depressions	Yes	2,3
31GD03: Goldstream-Histels complex	31-Goldstream	50-72	Valley floors	Yes	2,3
	31-Histels	15-40	Depressions on terraces, flats on terraces	Yes	1,2,3
	31-Chatanika	3-12	Hills	Yes	2
	31-Terric Cryofibrists	2-7	Thermokarst depressions	Yes	1,3
31GL01: Gilmore silt loam, 3 to 7 percent slopes	Gilmore	70-90	Hills	No	—
	Gilmore	5-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
31GL02: Gilmore silt loam, 7 to 12 percent slopes	31-Gilmore	65-75	Hills	No	—
	31-Gilmore-Greater than 12 percent slopes	5-15	Hills	No	—
	31-Gilmore-Less than 7 percent slopes	5-10	Hills	No	—
	31-Steese	5-10	Hills	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
31GL03: Gilmore silt loam, 12 to 20 percent slopes	31-Gilmore	70-80	Hills	No	—
	31-Gilmore-Greater than 20 percent slopes	10-15	Hills	No	—
	31-Gilmore-Less than 12 percent slopes	5-12	Hills	No	—
	31-Steese	5-10	Hills	No	—
	31-Ester	0-5	Hills	Yes	2
	31-Brigadier	0-5	Hills	No	—
31GL04: Gilmore silt loam, 20 to 30 percent slopes	31-Gilmore	65-80	Hills	No	—
	31-Gilmore-Less than 20 percent slopes	5-15	Hills	No	—
	31-Gilmore-Greater than 30 percent slopes	0-5	Hills	No	—
	31-Steese	5-10	Hills	No	—
	31-Ester	0-5	Hills	Yes	2
	31-Brigadier	0-5	Hills	No	—
31GL05: Gilmore silt loam, 30 to 45 percent slopes	Gilmore	80-90	Hills	No	—
	Gilmore	5-10	Hills	No	—
	Steese	3-10	Hills	No	—
	Ester	0-5	Hills	Yes	2
	Brigadier	0-5	Hills	No	—
	Rock outcrop	0-5	Hills	Unranked	—
31GL06: Gilmore silt loam, 45 to 70 percent slopes	31-Gilmore	80-90	Hills	No	—
	31-Gilmore-Less than 45 percent slopes	0-10	Hills	No	—
	31-Ester	0-10	Hills	Yes	2
	31-Steese	0-10	Hills	No	—
	31-Rock outcrop	0-5	Hills	Unranked	—
31HA01: Happy silt loam, 1 to 7 percent slopes	31-Happy	70-85	Natural levees on flood plains	No	—
	31-Water	2-8	Rivers on flood plains, depressions on flood plains, streams on flood plains, lakes on flood plains	—	—
	31-Goldstream	0-5	Valley floors	Yes	2,3
	31-Histels	0-7	Depressions on terraces, flats on terraces	Yes	1,2,3

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	31-Aquic Cryofluvents	0-5	Flood plains	No	—
	31-Chatanika	0-5	Hills	Yes	2
31HI01: Histels	Histels	85-90	Depressions on terraces, flats on terraces	Yes	1,2,3
	Goldstream	10-15	Valley floors	Yes	2,3
31MN01: Minto silt loam, 0 to 3 percent slopes	Minto	75-85	Hills	No	—
	Chatanika	1-12	Hills	Yes	2
	Minto	2-10	Hills	No	—
	Fairbanks	0-10	Hills	No	—
31MN02: Minto silt loam, 3 to 7 percent slopes	Minto	75-85	Hills	No	—
	Fairbanks	0-10	Hills	No	—
	Chatanika	3-10	Hills	Yes	2
	Minto	0-5	Hills	No	—
	Minto	5-10	Hills	No	—
31MN03: Minto silt loam, 7 to 12 percent	Minto	60-70	Hills	No	—
	Minto	5-15	Hills	No	—
	Minto	5-15	Hills	No	—
	Saulich	0-5	Hills	Yes	2
	Chatanika	2-10	Hills	Yes	2
	Fairbanks	5-15	Hills	No	—
31MN04: Minto silt loam, 12 to 20 percent slopes	31-Minto	70-85	Hills	No	—
	31-Minto-Less than 12 percent slopes	5-15	Hills	No	—
	31-Chatanika	1-10	Hills	Yes	2
	31-Typic Cryaquents	0-5	Depressions	Yes	2,3
31MN05: Minto-Chatanika complex, 0 to 3 percent slopes	31-Minto	35-50	Hills	No	—
	31-Chatanika	35-50	Hills	Yes	2
	31-Minto-Greater than 3 percent slopes	2-10	Hills	No	—
	31-Goldstream	0-10	Valley floors	Yes	2,3
	31-Chatanika-Greater than 3 percent slopes	0-5	Hills	Yes	2
31MN06: Minto-Chatanika complex, 3 to 7 percent slopes	Minto	30-40	Hills	No	—
	Chatanika	30-40	Hills	Yes	2

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	Minto	5-10	Hills	No	—
	Minto	5-10	Hills	No	—
	Saulich	0-10	Hills	Yes	2
	Goldstream	0-5	Valley floors	Yes	2,3
	Chatanika	0-5	Hills	Yes	2
	Chatanika	0-5	Hills	Yes	2
31MN07: Minto-Chatanika complex, 7 to 12 percent slopes	Minto	40-50	Hills	No	—
	Chatanika	40-50	Hills	Yes	2
	Minto	2-10	Hills	No	—
	Minto	2-10	Hills	No	—
	Chatanika	2-10	Hills	Yes	2
31MN08: Minto-Chatanika complex, 12 to 20 percent slopes	Minto	40-50	Hills	No	—
	Chatanika	40-50	Hills	Yes	2
	Chatanika	2-10	Hills	Yes	2
	Minto	0-10	Hills	No	—
	Minto	0-10	Hills	No	—
	Saulich	0-5	Hills	Yes	2
31PT01: Pits, quarry	Pits-Quarry	100-100	—	—	—
31RS01: Rosie silt loam, 15 to 90 percent slopes	31-Rosie	80-100	Hills	No	—
	31-Rock outcrop	0-20	Hills	Unranked	—
31SA01: Saulich peat, 3 to 7 percent slopes	Saulich	70-85	Hills	Yes	2
	Saulich	3-10	Hills	Yes	2
	Chatanika	0-7	Hills	Yes	2
	Goldstream	0-7	Valley floors	Yes	2,3
	Minto	0-7	Hills	No	—
31SA02: Saulich peat, 7 to 12 percent slopes	Saulich	75-85	Hills	Yes	2
	Goldstream	0-7	Valley floors	Yes	2,3
	Saulich	3-5	Hills	Yes	2
	Saulich	3-5	Hills	Yes	2
	Chatanika	1-5	Hills	Yes	2
	Minto	0-5	Hills	No	—
31SA03: Saulich peat, 12 to 20 percent slopes	Saulich	70-85	Hills	Yes	2
	Ester	0-7	Hills	Yes	2
	Chatanika	0-5	Hills	Yes	2
	Saulich	5-10	Hills	Yes	2

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Saulich	5-10	Hills	Yes	2
	Goldstream	0-5	Valley floors	Yes	2,3
	Minto	0-5	Hills	No	—
31SA04: Saulich peat, 20 to 30 percent slopes	Saulich	70-90	Hills	Yes	2
	Saulich	0-10	Hills	Yes	2
	Chatanika	0-5	Hills	Yes	2
	Minto	0-10	Hills	No	—
	Goldstream	0-5	Valley floors	Yes	2,3
	Ester	0-5	Hills	Yes	2
31SA05: Saulich-Minto complex, 3 to 7 percent slopes	Saulich	30-45	Hills	Yes	2
	Minto	30-45	Hills	No	—
	Chatanika	0-7	Hills	Yes	2
	Saulich	0-7	Hills	Yes	2
	Minto	0-7	Hills	No	—
	Saulich	0-5	Hills	Yes	2
	Minto	0-5	Hills	No	—
	Goldstream	0-5	Valley floors	Yes	2,3
31SA06: Saulich-Minto complex, 7 to 12 percent slopes	31-Saulich	30-45	Hills	Yes	2
	31-Minto	30-45	Hills	No	—
	31-Minto-Less than 7 percent slopes	0-7	Hills	No	—
	31-Minto-Greater than 12 percent slopes	0-7	Hills	No	—
	31-Chatanika	0-7	Hills	Yes	2
	31-Saulich-Greater than 12 percent slopes	0-7	Hills	Yes	2
	31-Saulich-Less than 7 percent slopes	0-7	Hills	Yes	2
	31-Goldstream	0-5	Valley floors	Yes	2,3
31SA07: Saulich-Minto complex, 12 to 20 percent slopes	Saulich	30-45	Hills	Yes	2
	Minto	30-45	Hills	No	—
	Minto	0-7	Hills	No	—
	Saulich	0-7	Hills	Yes	2
	Minto	0-7	Hills	No	—
	Saulich	0-7	Hills	Yes	2
	Chatanika	0-7	Hills	Yes	2
	Goldstream	0-5	Valley floors	Yes	2,3

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Ester	0-5	Hills	Yes	2
31ST01: Steese silt loam, 3 to 7 percent slopes	Steese	75-85	Hills	No	—
	Steese	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
31ST02: Steese silt loam, 7 to 12 percent slopes	Steese	70-80	Hills	No	—
	Gilmore	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
31ST03: Steese silt loam, 12 to 20 percent slopes	31-Steese	60-85	Hills	No	—
	31-Fairbanks	3-10	Hills	No	—
	31-Steese-Less than 12 percent slopes	2-10	Hills	No	—
	31-Gilmore	2-10	Hills	No	—
	31-Steese-Greater than 20 percent slopes	2-10	Hills	No	—
31ST04: Steese silt loam, 20 to 30 percent slopes	Steese	70-85	Hills	No	—
	Steese	2-10	Hills	No	—
	Steese	2-10	Hills	No	—
	Gilmore	2-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Ester	0-5	Hills	Yes	2
31ST05: Steese silt loam, 30 to 45 percent slopes	Steese	75-95	Hills	No	—
	Steese	5-15	Hills	No	—
	Gilmore	0-10	Hills	No	—
	Fairbanks	2-10	Hills	No	—
	Ester	0-5	Hills	Yes	2
31ST06: Steese silt loam, 45 to 70 percent slopes	31-Steese	85-95	Hills	No	—
	31-Steese-Less than 45 percent slopes	5-10	Hills	No	—
	31-Gilmore	0-10	Hills	No	—
31ST07: Steese-Gilmore complex, 7 to 12 percent slopes	Steese	25-60	Hills	No	—
	Gilmore	30-50	Hills	No	—

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Steese	2-10	Hills	No	—
	Gilmore	0-10	Hills	No	—
	Gilmore	0-10	Hills	No	—
	Fairbanks	0-10	Hills	No	—
	Steese	1-10	Hills	No	—
31ST08: Steese-Gilmore complex, 12 to 20 percent slopes	31-Steese	30-60	Hills	No	—
	31-Gilmore	20-40	Hills	No	—
	31-Steese-Less than 12 percent slopes	2-10	Hills	No	—
	31-Steese-Greater than 20 percent slopes	2-15	Hills	No	—
	31-Gilmore-Less than 12 percent slopes	2-15	Hills	No	—
	31-Fairbanks	0-10	Hills	No	—
31ST09: Steese-Gilmore complex, 20 to 30 percent slopes	31-Steese	30-60	Hills	No	—
	31-Gilmore	30-50	Hills	No	—
	31-Gilmore-Less than 20 percent slopes	2-15	Hills	No	—
	31-Steese-Less than 20 percent slopes	2-10	Hills	No	—
	31-Fairbanks	0-10	Hills	No	—
	31-Steese-Greater than 30 percent slopes	2-10	Hills	No	—
31ST10: Steese-Gilmore complex, 30 to 45 percent slopes	31-Steese	30-50	Hills	No	—
	31-Gilmore	30-50	Hills	No	—
	31-Gilmore-Less than 30 percent slopes	5-15	Hills	No	—
	31-Steese-Less than 30 percent slopes	2-10	Hills	No	—
	31-Steese-Greater than 45 percent slopes	2-10	Hills	No	—
31TE01: Typic Cryaquents, Histic Cryaquepts and Terric Cryofibrists soils, hills	Typic Cryaquents-Frequent long ponding	0-90	Flood plains	Yes	2,3
	Histic Cryaquepts	20-50	Depressions on terraces	Yes	2,3

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Map symbol and map unit name	Component/Local Phase	Comp. pct.	Landform	Hydric status	Hydric criteria met (code)
	Terric Cryofibrists	0-80	Thermokarst depressions	Yes	1,3
	Histels	0-50	Depressions on terraces, flats on terraces	Yes	1,2,3
	Water	0-20	Rivers on flood plains, depressions on flood plains, depressions on hills, streams on flood plains, lakes on flood plains, lakes on hills	Unranked	—
31TG01: Toghotthele silt loam, 20 to 90 percent slopes	31-Toghotthele	80-95	Climbing dunes on hills	No	—
	31-Rosie	0-5	Hills	No	—
	31-Fairbanks	0-5	Hills	No	—
	31-Steese	0-5	Hills	No	—
	31-Gilmore	0-5	Hills	No	—
W: Water	Water	100-100	Rivers on flood plains, depressions on flood plains, streams on flood plains, lakes on flood plains	Unranked	—