Attachment A

Soil Investigations Soil Survey Natural Resource Map



USDA United States Department of Agriculture



Natural Resources Conservation Service

A product of the National 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 Ulster County, **New York**



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 (https://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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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

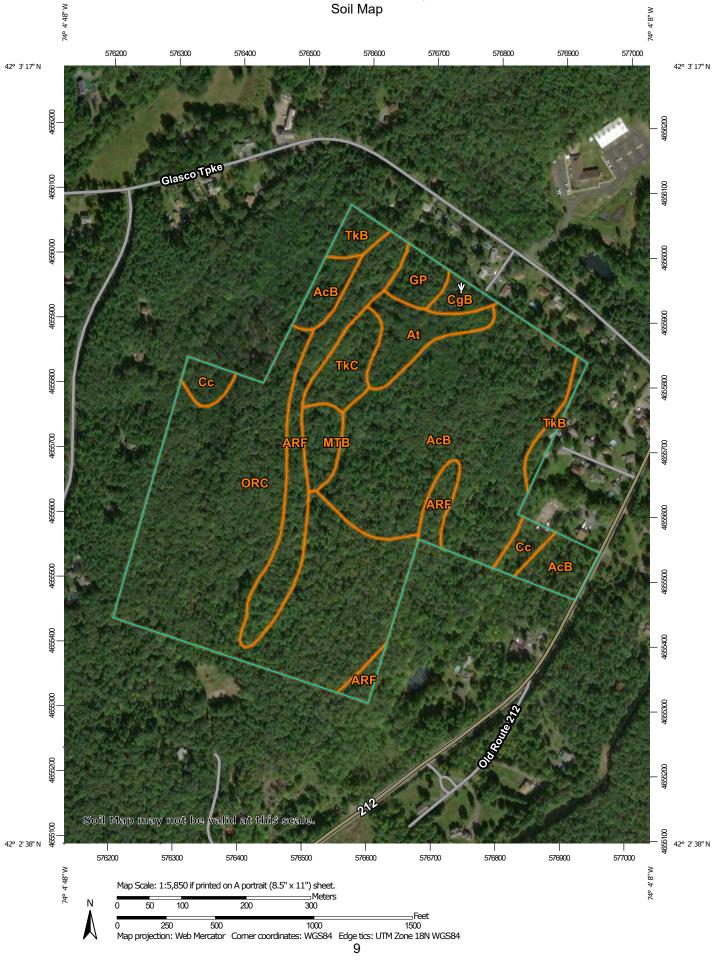
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



	MAP L	EGEND	1	MAP INFORMATION
Area of Int	terest (AOI) Area of Interest (AOI)	8	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:15,800.
Soils	Soil Map Unit Polygons	â	Very Stony Spot	Warning: Soil Map may not be valid at this scale.
~	Soil Map Unit Lines	\$° ∆	Wet Spot Other	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
Special	Soil Map Unit Points Point Features		Special Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
<u>ی</u>	Blowout Borrow Pit	Water Fea	Streams and Canals	scale.
*	Clay Spot	Transport	ation Rails	Please rely on the bar scale on each map sheet for map measurements.
◇ ¥	Closed Depression Gravel Pit	~	Interstate Highways US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:
.: ©	Gravelly Spot Landfill	~	Major Roads Local Roads	Coordinate System: Web Mercator (EPSG:3857)
A.	Lava Flow	Backgrou	nd	Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the
<u>به</u> ج	Marsh or swamp Mine or Quarry		Aerial Photography	Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
0	Miscellaneous Water Perennial Water			This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
~	Rock Outcrop			Soil Survey Area: Ulster County, New York Survey Area Data: Version 20, Aug 29, 2021
+ .∗.	Saline Spot Sandy Spot			Soil map units are labeled (as space allows) for map scales
⊕ ◊	Severely Eroded Spot Sinkhole			1:50,000 or larger.
≽	Slide or Slip			Date(s) aerial images were photographed: Oct 7, 2013—Sep 22, 2017
ø	Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Мар	Unit	Legend
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Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AcB	Arnot channery silt loam, 0 to 8 percent slopes	25.9	32.9%
ARF	Arnot-Oquaga-Rock outcrop complex, very steep	8.2	10.4%
At	Atherton silt loam	3.1	3.9%
Сс	Canandaigua silt Ioam	2.0	2.5%
CgB	Castile gravelly silt loam, 3 to 8 percent slopes	0.9	1.2%
GP	Gravel pit	1.5	1.8%
МТВ	Morris-Tuller complex, gently sloping, very bouldery	1.7	2.1%
ORC	Oquaga-Arnot-Rock outcrop complex, sloping	31.2	39.6%
ТкВ	Tunkhannock gravelly loam, 3 to 8 percent slopes	1.9	2.4%
TkC	Tunkhannock gravelly loam, rolling	2.5	3.2%
Totals for Area of Interest		78.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the

scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Ulster County, New York

AcB—Arnot channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2wbm7 Elevation: 330 to 2,460 feet Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F Frost-free period: 105 to 180 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Arnot and similar soils: 85 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arnot

Setting

Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Mountaintop, interfluve, crest Down-slope shape: Convex Across-slope shape: Convex Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

Ap - 0 to 7 inches: channery silt loam *Bw1 - 7 to 12 inches:* very channery silt loam *Bw2 - 12 to 17 inches:* very channery silt loam *2R - 17 to 27 inches:* bedrock

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3s Hydrologic Soil Group: D Ecological site: F140XY023NY - Shallow Till Uplands Hydric soil rating: No

Minor Components

Oquaga

Percent of map unit: 10 percent Landform: Mountains, hills Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Upper third of mountainflank, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Hydric soil rating: No

Tuller, somewhat poorly drained

Percent of map unit: 5 percent Landform: Hills, ridges, benches Landform position (two-dimensional): Summit, footslope Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

ARF—Arnot-Oquaga-Rock outcrop complex, very steep

Map Unit Setting

National map unit symbol: 2xp9p Elevation: 330 to 2,460 feet Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F Frost-free period: 105 to 180 days Farmland classification: Not prime farmland

Map Unit Composition

Arnot, very bouldery, and similar soils: 40 percent Oquaga, very bouldery, and similar soils: 30 percent Rock outcrop: 20 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arnot, Very Bouldery

Setting

Landform: Hills, mountains Landform position (two-dimensional): Backslope Landform position (three-dimensional): Mountaintop, mountainflank, free face, nose slope, side slope, free face Down-slope shape: Linear Across-slope shape: Linear Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material *A - 1 to 3 inches:* channery silt loam *Bw1 - 3 to 12 inches:* very channery silt loam *Bw2 - 12 to 17 inches:* very channery silt loam *2R - 17 to 27 inches:* bedrock

Properties and qualities

Slope: 35 to 70 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: F140XY023NY - Shallow Till Uplands Hydric soil rating: No

Description of Oquaga, Very Bouldery

Setting

Landform: Hills, mountains Landform position (two-dimensional): Shoulder, backslope Landform position (three-dimensional): Upper third of mountainflank, nose slope, side slope, crest Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Reddish loamy till derived from sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material *A - 1 to 5 inches:* channery highly organic silt loam *Bw1 - 5 to 15 inches:* very channery silt loam *Bw2 - 15 to 24 inches:* very channery silt loam *C - 24 to 30 inches:* extremely channery loam *2R - 30 to 40 inches:* bedrock

Properties and qualities

Slope: 35 to 70 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) *Available water supply, 0 to 60 inches:* Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: C Ecological site: F140XY027NY - Well Drained Till Uplands Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder, backslope Landform position (three-dimensional): Mountaintop, mountainflank, nose slope, side slope, crest Down-slope shape: Convex Across-slope shape: Convex Parent material: Sedimentary rock

Properties and qualities

Slope: 35 to 70 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Capacity of the most limiting layer to transmit water (Ksat): Very low to very high (0.00 to 14.17 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydric soil rating: No

Minor Components

Lackawanna, very bouldery

Percent of map unit: 5 percent Landform: Hills, mountains Landform position (two-dimensional): Backslope Landform position (three-dimensional): Nose slope, side slope Down-slope shape: Linear Across-slope shape: Linear Hydric soil rating: No

Cadosia, very stony

Percent of map unit: 5 percent Landform: Ridges Landform position (two-dimensional): Backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

At—Atherton silt loam

Map Unit Setting

National map unit symbol: 9xfl Elevation: 50 to 1,500 feet Mean annual precipitation: 41 to 62 inches Mean annual air temperature: 41 to 50 degrees F Frost-free period: 110 to 200 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Atherton and similar soils: 80 percent Minor components: 20 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Atherton

Setting

Landform: Depressions Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Concave Across-slope shape: Concave Parent material: Loamy glaciofluvial deposits over stratified deposits

Typical profile

H1 - 0 to 7 inches: silt loam

H2 - 7 to 19 inches: silt loam

H3 - 19 to 34 inches: gravelly loam

H4 - 34 to 65 inches: stratified very gravelly sandy loam to sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Calcium carbonate, maximum content: 1 percent
Available water supply, 0 to 60 inches: Moderate (about 6.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 4w Hydrologic Soil Group: B/D *Ecological site:* F140XY016NY - Mineral Wetlands *Hydric soil rating:* Yes

Minor Components

Red hook

Percent of map unit: 5 percent Hydric soil rating: No

Canandaigua

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Lamson

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Raynham

Percent of map unit: 5 percent Hydric soil rating: No

Cc—Canandaigua silt loam

Map Unit Setting

National map unit symbol: 9xfz Elevation: 100 to 1,000 feet Mean annual precipitation: 41 to 62 inches Mean annual air temperature: 41 to 50 degrees F Frost-free period: 110 to 200 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Canandaigua and similar soils: 80 percent *Minor components:* 20 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Canandaigua

Setting

Landform: Depressions Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread Down-slope shape: Concave Across-slope shape: Concave Parent material: Silty and clayey glaciolacustrine deposits

Typical profile

H1 - 0 to 9 inches: silt loam *H2 - 9 to 37 inches:* silt loam

H3 - 37 to 60 inches: silt loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Available water supply, 0 to 60 inches: High (about 12.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 4w Hydrologic Soil Group: C/D Ecological site: F101XY010NY - Wet Lake Plain Depression Hydric soil rating: Yes

Minor Components

Madalin

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Lyons

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

Raynham

Percent of map unit: 5 percent *Hydric soil rating:* No

Lamson

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

CgB—Castile gravelly silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9xg4 Elevation: 160 to 1,970 feet Mean annual precipitation: 41 to 62 inches Mean annual air temperature: 41 to 50 degrees F Frost-free period: 110 to 200 days Farmland classification: All areas are prime farmland

Map Unit Composition

Castile and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Castile

Setting

Landform: Valley trains, terraces Landform position (two-dimensional): Summit Landform position (three-dimensional): Tread Down-slope shape: Concave Across-slope shape: Convex Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from sandstone, shale, and siltstone

Typical profile

H1 - 0 to 8 inches: gravelly silt loam

H2 - 8 to 19 inches: gravely loam

H3 - 19 to 28 inches: very gravelly sandy loam

H4 - 28 to 60 inches: stratified very gravelly sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2w Hydrologic Soil Group: A/D Ecological site: F140XY022NY - Moist Outwash Hydric soil rating: No

Minor Components

Chenango

Percent of map unit: 5 percent Hydric soil rating: No

Hoosic

Percent of map unit: 5 percent Hydric soil rating: No

Tunkhannock

Percent of map unit: 5 percent *Hydric soil rating:* No

Red hook

Percent of map unit: 5 percent Hydric soil rating: No

GP—Gravel pit

Map Unit Setting

National map unit symbol: 9xgh Mean annual precipitation: 41 to 62 inches Mean annual air temperature: 41 to 50 degrees F Frost-free period: 110 to 200 days Farmland classification: Not prime farmland

Map Unit Composition

Gravel pit: 80 percent *Minor components*: 20 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Gravel Pit

Properties and qualities

Slope: 0 to 15 percent *Depth to restrictive feature:* 40 to 80 inches to lithic bedrock *Drainage class:* Somewhat excessively drained

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydric soil rating: Unranked

Minor Components

Hoosic

Percent of map unit: 5 percent Hydric soil rating: No

Pompton

Percent of map unit: 5 percent Hydric soil rating: No

Chenango

Percent of map unit: 5 percent Hydric soil rating: No

Atherton

Percent of map unit: 5 percent Landform: Depressions Hydric soil rating: Yes

MTB—Morris-Tuller complex, gently sloping, very bouldery

Map Unit Setting

National map unit symbol: 2vxd2 Elevation: 330 to 2,460 feet Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F Frost-free period: 105 to 180 days Farmland classification: Not prime farmland

Map Unit Composition

Morris, very bouldery, and similar soils: 45 percent Tuller, poorly drained, very bouldery, and similar soils: 15 percent Tuller, somewhat poorly drained, very bouldery, and similar soils: 15 percent Minor components: 25 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Morris, Very Bouldery

Setting

Landform: Hills, mountains Landform position (two-dimensional): Footslope Landform position (three-dimensional): Interfluve, side slope Down-slope shape: Concave Across-slope shape: Linear Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

A - 0 to 4 inches: bouldery silt loam Bw - 4 to 12 inches: flaggy silt loam Eg - 12 to 16 inches: flaggy silt loam Bx - 16 to 60 inches: channery silt loam C - 60 to 72 inches: channery loam

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: D Hydric soil rating: No

Description of Tuller, Poorly Drained, Very Bouldery

Setting

Landform: Hills, ridges, benches Landform position (two-dimensional): Summit, footslope Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

H1 - 0 to 7 inches: flaggy silt loam *H2 - 7 to 18 inches:* very flaggy very fine sandy loam *H3 - 18 to 22 inches:* unweathered bedrock

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 6 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 1.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: D Ecological site: F140XY016NY - Mineral Wetlands Hydric soil rating: Yes

Description of Tuller, Somewhat Poorly Drained, Very Bouldery

Setting

Landform: Hills, ridges, benches Landform position (two-dimensional): Summit, footslope Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

H1 - 0 to 7 inches: flaggy silt loam
H2 - 7 to 18 inches: very flaggy very fine sandy loam
H3 - 18 to 22 inches: unweathered bedrock

Properties and qualities

Slope: 0 to 8 percent *Surface area covered with cobbles, stones or boulders:* 1.6 percent *Depth to restrictive feature:* 10 to 20 inches to lithic bedrock *Drainage class:* Somewhat poorly drained Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr) Depth to water table: About 6 to 18 inches Frequency of flooding: None Frequency of ponding: None Available water supply, 0 to 60 inches: Very low (about 1.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: D Ecological site: F140XY016NY - Mineral Wetlands Hydric soil rating: No

Minor Components

Scriba, very bouldery

Percent of map unit: 10 percent Landform: Drumlins, till plains Landform position (two-dimensional): Footslope Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Greene, very bouldery

Percent of map unit: 5 percent Landform: Ridges, benches, hills Landform position (two-dimensional): Footslope, summit Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Menlo, very bouldery

Percent of map unit: 5 percent Landform: Depressions Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Concave Hydric soil rating: Yes

Wellsboro, very bouldery

Percent of map unit: 3 percent Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Interfluve, side slope Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent Hydric soil rating: No

ORC—Oquaga-Arnot-Rock outcrop complex, sloping

Map Unit Setting

National map unit symbol: 2xp9m Elevation: 330 to 2,460 feet Mean annual precipitation: 31 to 70 inches Mean annual air temperature: 39 to 52 degrees F Frost-free period: 105 to 180 days Farmland classification: Not prime farmland

Map Unit Composition

Oquaga, very stony, and similar soils: 35 percent *Arnot, extremely stony, and similar soils:* 25 percent *Rock outcrop:* 15 percent *Minor components:* 25 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Oquaga, Very Stony

Setting

Landform: Hills, ridges, benches Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Crest Down-slope shape: Convex Across-slope shape: Convex Parent material: Reddish loamy till derived from sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material A - 1 to 5 inches: channery highly organic silt loam Bw1 - 5 to 15 inches: very channery silt loam Bw2 - 15 to 24 inches: very channery silt loam C - 24 to 30 inches: extremely channery loam 2R - 30 to 40 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6s Hydrologic Soil Group: C Ecological site: F140XY027NY - Well Drained Till Uplands Hydric soil rating: No

Description of Arnot, Extremely Stony

Setting

Landform: Hills, ridges, benches Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Crest Down-slope shape: Convex Across-slope shape: Convex Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material

A - 1 to 3 inches: channery silt loam

Bw1 - 3 to 12 inches: very channery silt loam

Bw2 - 12 to 17 inches: very channery silt loam

2R - 17 to 27 inches: bedrock

Properties and qualities

Slope: 8 to 15 percent
Surface area covered with cobbles, stones or boulders: 10.0 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 2.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: F140XY023NY - Shallow Till Uplands Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder, backslope Landform position (three-dimensional): Mountaintop, mountainflank, nose slope, side slope, crest Down-slope shape: Convex Across-slope shape: Convex Parent material: Sedimentary rock

Properties and qualities

Slope: 3 to 15 percent Depth to restrictive feature: 0 inches to lithic bedrock Capacity of the most limiting layer to transmit water (Ksat): Very low to very high (0.00 to 14.17 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydric soil rating: No

Minor Components

Wellsboro, very bouldery

Percent of map unit: 10 percent Landform: Hills, mountains Landform position (two-dimensional): Summit, shoulder Landform position (three-dimensional): Interfluve, side slope Down-slope shape: Convex Across-slope shape: Convex Hydric soil rating: No

Cadosia, very stony

Percent of map unit: 10 percent Landform: Ridges Landform position (two-dimensional): Backslope, footslope Landform position (three-dimensional): Side slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

Tuller, somewhat poorly drained, very bouldery

Percent of map unit: 5 percent Landform: Benches, hills, ridges Landform position (two-dimensional): Footslope, summit Landform position (three-dimensional): Base slope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: No

TkB—Tunkhannock gravelly loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9xjx Elevation: 700 to 2,000 feet Mean annual precipitation: 41 to 62 inches Mean annual air temperature: 41 to 50 degrees F Frost-free period: 110 to 200 days Farmland classification: All areas are prime farmland

Map Unit Composition

Tunkhannock and similar soils: 80 percent *Minor components:* 20 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Tunkhannock

Setting

Landform: Valley trains, terraces Landform position (two-dimensional): Summit Landform position (three-dimensional): Tread Down-slope shape: Convex Across-slope shape: Convex Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly

glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale

Typical profile

H1 - 0 to 7 inches: gravelly loam

- H2 7 to 23 inches: gravelly loam
- H3 23 to 30 inches: very gravelly loam
- H4 30 to 80 inches: Error

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 2s Hydrologic Soil Group: A Hydric soil rating: No

Minor Components

Barbour

Percent of map unit: 5 percent Hydric soil rating: No

Suncook

Percent of map unit: 5 percent Hydric soil rating: No

Red hook

Percent of map unit: 5 percent Hydric soil rating: No

Castile

Percent of map unit: 5 percent

Hydric soil rating: No

TkC—Tunkhannock gravelly loam, rolling

Map Unit Setting

National map unit symbol: 9xjy Elevation: 700 to 2,000 feet Mean annual precipitation: 41 to 62 inches Mean annual air temperature: 41 to 50 degrees F Frost-free period: 110 to 200 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Tunkhannock and similar soils: 80 percent *Minor components:* 20 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Tunkhannock

Setting

Landform: Valley trains, terraces Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Tread Down-slope shape: Convex Across-slope shape: Convex Parent material: Gravelly loamy glaciofluvial deposits over sandy and gravelly glaciofluvial deposits, derived mainly from reddish sandstone, siltstone, and shale

Typical profile

H1 - 0 to 7 inches: gravelly loam
H2 - 7 to 23 inches: gravelly loam
H3 - 23 to 30 inches: very gravelly loam
H4 - 30 to 80 inches: Error

Properties and qualities

Slope: 5 to 16 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e Hydrologic Soil Group: A Hydric soil rating: No

Minor Components

Castile

Percent of map unit: 5 percent Hydric soil rating: No

Red hook

Percent of map unit: 5 percent *Hydric soil rating:* No

Valois

Percent of map unit: 5 percent *Hydric soil rating:* No

Chenango

Percent of map unit: 5 percent Hydric soil rating: No

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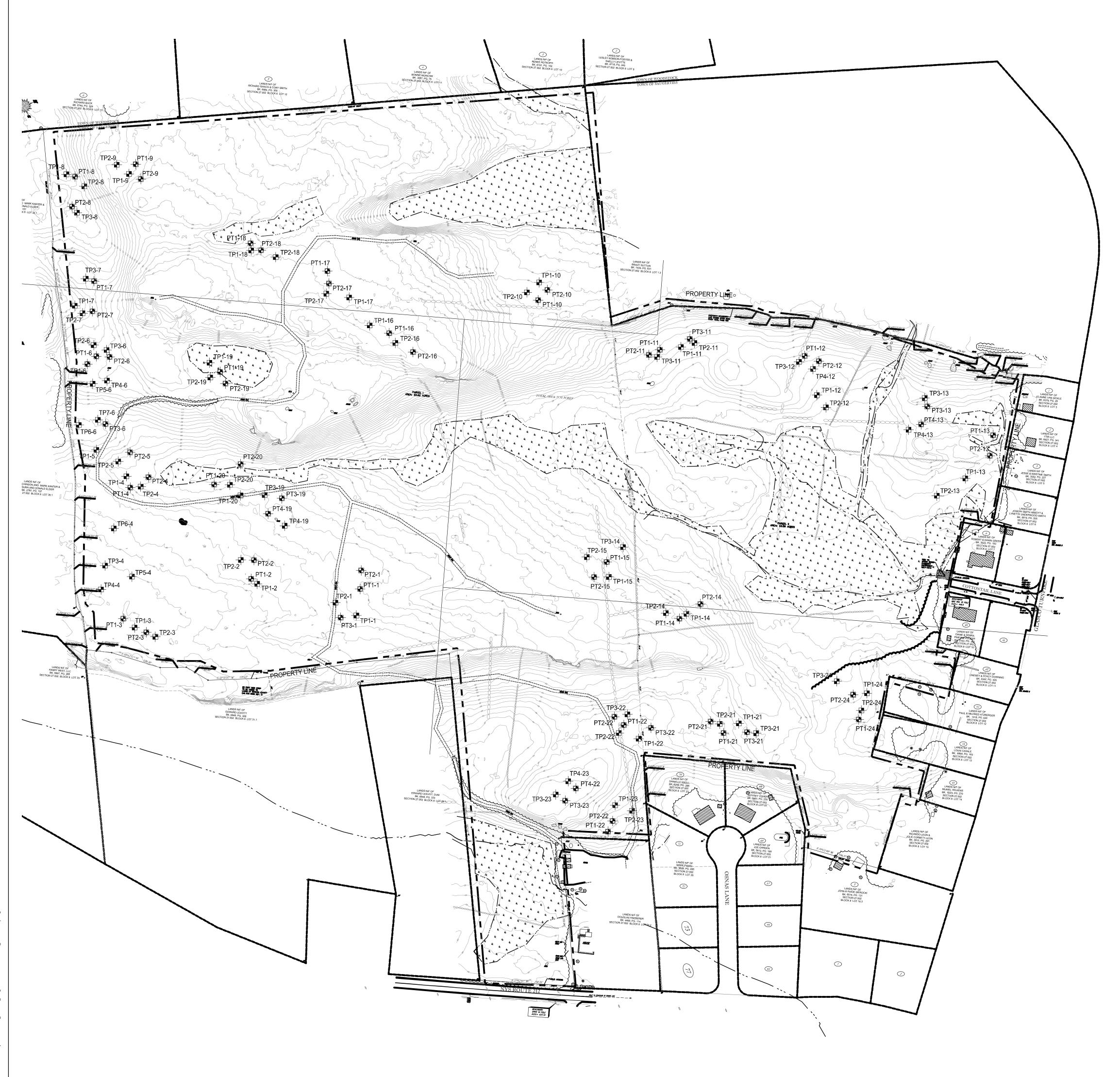
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Plotted By: BRIDGET A. SNOVER Save Date: 6/15/2022 3:37 PM File Name: G:NProj-2021/2021096_

LOT NO.	TEST PIT (TP) NO	TOTAL DEPTH	ROCK DEPTH	WATER DEPTH	MOTTLING DEPTH	SOIL DEPTHS & DESCRIPTIONS
	TP11	52"	52	N/A .	35"	0" - 6" TOPSOL 6" - 34" CLAY LOAM 34"- 52" SANDY GRAVELLY LOAM
1	1F21	48"	41 ⁻	N/A :	33"	0" - 6" TOPSOIL 6" - 41" CLAY LOAM
	ĭ₽1−2	34"	34	N/A	N/A	0" - 4" TOPSOIL 4" - 34" CLAY LOAM
2	TP2-2	24"	24"	N/A	N/A	0" - 4" TOPSOIL 4" - 24" CLAY LOAM
	TF1−3	42"	42"	N/A	N/A	0" - 6" TOPSOIL 6" - 42" LOAM
3	TF2−3	33"	33"	N/A	N/A	0" - 6" TOPSOIL 6" - 33" CLAY LOAM
	TP1-4	31*	31*	N/A	N/A	0" - 3", TOPSOIL 3" - 31" CLAY LOAM .
	TP2-4	24"	24-	N/A	N/A	0" - 6" TOPSCH 6" - 29" CLAY LOAM
	TF 3-4	26"	25"	N/A	N/A	0" 4" TOPSOL 4" 26" GRAVELLY SH.T LOAM W/FRACTURE SHALE
	TP4-4	18"	18	N/A	N/A	D" - 4" TOPSOIL 4" - 18" GRAVELLY SILT LOAN W/FRACTUREI SHALE
	TP5-4	12	12*	N/A	N/A	0" - 4" TOPSCIL 4" - 12" SILT LOAN W/FRACTURED
	TP6-4	. 12"	12	N/A	N/A	SHALE 0" - 4" TOPSCH 4" - 12" SH_T LOAM W/FRACTURED SHALE
	TP1-5	25"	28	26"	N/A	0" 8" TOPSOIL 8" 28" CLAY LOAM
	TP2-5	28	28	N/A	N/A	0" - 10" TOPSOIL 10" - 28" CLAY LOAM
	TP1-6	38"	38	N/A	N/A	0" - 8" TOPSOIL 8" - 38" CLAY LOAN
	TP2-6	40"	40"	N/4	N/A	0" - 6" TOPSOIL 6" - 40" CLAY I DAM
	TP3⊶6	14"	14"	N/A	N/A	0" - 4" TOPSOIL 4" - 14" SILT LOAM
6	TP4-6	10"	10"	N/Å	N/A	C" - 4" TOPSOIL 4" - 10" SILT LOAM W/FRACTURED SHALE
	TP5-6	20"	20	N/A	N/A	0" - 4" TOPSOIL 4" 20" SILT LOAM
	TP6-6	16"	15"	N/A	. N/A	0" - 4" TOPSOIL 4" - 16" SILT LOAM
	T₽7-ð	48″	24"	N/A	N/A	0" - 10" TOPSOIL 1C" - 24° CLAY LOAM 24" - 48" FRACTURED SHALE
	TP17	42"	42"	N/A	N/A	0" - 3" TOPSOIL 3" - 42" SANDY, CLAY LOAM
7	TP2-7	30"	30"	N/A	N/A	0" - 3" TOPSOIL 3" - 30" SANDY, CLAY LOAM
	TP37	34"	34"	N/A	N/A	0" - 6" TOPSOIL 6" - 34" CLAY LOAM
	TP1-8	32"	32"	N/A	N/A	C" - 8" TOPSOIL 8" - 32" CLAY LOAM
8	TP2-8	28"	28*	N/A	N/A	C" 4" TOPSOR 4" 28" GLAY LOAM
	TP3−8	42"	42	N/A	N/A	0" - 6" TOPSCIL 6" - 42" CLAY LOAM
9	3P1-9	46"	46"	N/A	N/A	0" - 6" TOPSOIL 5" - 46" CLAY LOAM
Ľ	1P2-9	26"	26"	N/A	N/A	0" - 4" TOPSOIL 4" 26" CLAY LOAM
10	TP1-10	28"	28"	N/A	N/A	0" - 6" (OPSOIL 6" - 28" CLAY LOAM
	ĭ₽2∸10	30"	30"	N/A	N/A	0" - 3" TOPSOIL 3" - 30" CLAY LOAM
	1P1-11	33"	33"	N/A	N/A	0" - E" TOPSOIL 6" - 33" ROCKY CLAY LOAN
11	TP211	34"	34"	N/A	N/A	0" - 8" TOPSOIL 8" - 34" GRITTY CLAY LOAM
	TP3-11	32'	32*	N/A.	N/A	0" - 8" TOPSOL 8" - 32" SANDY LOAM
	TP1-12	54"	R/A	N/A	N/A	O" - 8" TOPSCIL. 8" - 54" SANDY LOAM
12	122-12	48"	N/A	N/A	N/A	0" 4° TOPSOIL 4" 48" SANDY LOAM
	π3−12	54"	N/A	N/A	N/A	0" 4" TCPSOL 4" 54" SANDY LOAM
	TP4-12	56*	N/A	N/A	N/A	0" - 4" TOPSOIL 4" - 66" SANDY LOAM
	191-13	56"	N/A	10"	N/A	0" - 6" TOPSOL 6" - 56" SANDY, GRAVELL LOAM.
13	דייז –13	56	N/A	50"	N/A	0" ~ 6" TOPSOIL 6" - 56" SANDY, GRAVELL' LOAM
	TP3-13	36"	N/A	N/A	N/A	0" 12" TOPSOL 12" - 38" R.O.B.
	TP4-13	48"	N/A	48*	42"	0" 12" TOPSOIL 12" 41" CLAY LCAM

LEGEND

PROPERTY LINE PERCOLATION TEST >25% SLOPES PREVIOUSLY DELINEATED WETLAND ----- STREAM

STONE WALL

NOTES

1. SOILS INFORMATION DATA FROM A PLAN TITLED "SEWAGE DISPOSAL SYSTEM TABLES," SOUTH PEAK SUBDIVISION, DATED MARCH 21, 2007, PREPARED BY ERDMAN ANTHONY.

TEST PIT

Scale: 1" = 120' FOR 24X36 SHEET

-	.от	TEST.PIT		ND 01/	WATE		LING	SOIL	DEPTHS	
Ň	NO.	(TP) NO.	TOTAL DEPTH	ROCK DEPTH	DEPT		TH	DESC	RIPTIONS	
		TP1-14	24*	24"	N/A	N/	Ά	. 0° - 12 12° - 24	CLAY LO	AM
1	14	1P2-:4	28"	26"	N/A	· *	A.	0" - 28	" CLAY LO	AM
		TP3-14	30"	30"	24"	(≜ %) N∕	' A	0" - 6" 6" - 30	TOPSOIL " CLAY LO	4 M
		TP1-15	36"	N/A	,36"	24	۳.	0" - 6" 6" - 24" 24" - 36"	TOPSOIL CLAY LO- NOTTLED	AN OLAY
1	15	TP2-15	24"	24"	N/A	N/	ΓΑ	0" - 6" 6" - 24"	TOPSOIL CLAY LOA	м
		TP315	30"	30"	24	N/	· · · · · · · · · · · · · · · · · · ·		TOPSOIL	
		TP1-15	30"	30*	N/A		·^		TOPSOIL CLAY LD	
1	16								8	
-	- 1	TP2-16	24"	24"	N/A	N/	~	•	TOPSOIL CLAY LOA	
	17	TP1-17	24"	24"	N/A	N/	'A		TOPSOIL CLAY LOA	
		TP2-17	24"	24°	N/A	N/	'A	0" 4" 4" 24"	TOPSOIL CLAY LOA	м
	18	TP1 -18	30"	30*	N//	. N/	Ά	U"- 1" T 4"- 30" G	OPSOIL RITTY CLA	Y LOAM
-		TP2-18	24"	24"	N/#	N N/	'A	0"- 4" 4"- 24"	TOPSOIL CLAY LOA	м.
		₩1=1 9	24"	24"	N/A	N/	/A	0"- 4" 4"- 24"	TOPSOIL CLAY LOA	м
1		TP2-19	35"	35"	N/A	1.1	4	0°- 5" 5"- 35'	TOPSOIL CLAY. LO	АМ
	19	TP3-19	24"	N/A	36	. 24	μ ¹¹ .	0" - 6" 6" - 24	TOPSOIL CLAY LOA MOTTLED	ч м
		TP4-19	24"	24"	N/A		· · · ·		TOPSOIL	
									TOPSOIL	MM.
	20	™1-20	48"	48"	36'	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4"	8"- 36"	CLAY LO	i.
-		TP2-20	36"	36"	N/A	Su Sal	/4	0°- 3° 6°- 38"	TOPSOIL CLAY LO	AM
	· ,	TP1-21	48*	43"	N/A	N,	/A	0"- 12" T 12"- 48" G	OPSOE. RITTY, CLA	Y LOAM
2	21	TP2-21	30"	30"	N/A	N	/A	.0"- 12" T 12"- 30" ⊆	OP\$OIL DAM	с. С.,
		TP3-21	42"	42"	N/A	N,	(A 1	0"- 12" TC 2"- 42" GF	PSOL	LOAM
F		TP1-22	34"	34"	N/A			0"- 12" TI 12". 42" G		
	22	TP2-22	72"	72"	N/A		3" 1	0"- 12" TC 2"- 33" LC	PSOF_	
	۷۷				· ·			3"~ 72" MC	OTTLED CL	NÝ LOAV
F		TP3-22	72"	72"	N/A	State Say	3" -	0"- 12' 12"- 72 0"- 12"	TOPSOIL	
		t₽1-23	27"	?4 [*]	N/A	. (31 N)	/A	12"- 27" * TO HA	CLAY LOA W/PEBBLE RDPAN	M :S
	23	TP2-23	30"	30"	N/A	0. N	/A	0"- 12" 12"- 30"	TOPSOIL CLAY LOAN	· .
	_3	TP3-23	24"	24*	N/A	N	14	0"- 6" T 6"- 24" B	OPSCIL ONEY, SILT	LOAN
		TP4-23	3 2 "	32°	N/A	N/	//	0"~ 6" 6"→ 32"	TOP SOIL SILT LOAM	s.
F		191-24	32"	32"	26	. N/	(A.	0" 12" 12" 32"	TOPSOIL CLAY LOAN	, . 1
	24	TP2-24	48"	48"	26'	- (2) - 22 - 12 Ny	(A .	0*- 12" T 12"- 48* G		
		TP3-24	60"	60"	41"					
	4-E MIN	SDS DESIG REDROOM M SEPTIC TA	AXIMUM; ANK SIZE P	ERCOL	ATION	100 T	ESULT			n
LOT NO.	ALL 4-E MEN	SDS DESIG	AXIMUM; ANK SIZE	DAILY TL - 1250 G	ATION	40 CPD		а 1		4
	ALL 4-E MEN	SDS DESIC SEDROOM M SEPTIC T/ RC TEST PT) NO.	AXIMUM; ANK SIZE P HOLE DEPTH	ERCOL	ATION YPE .0AM .0AM	40 CPD I TEST R SOAKED	ESULI	TEST	RUNS	
NO,	ALL 4-E MIN	SDS DESIC IEDROOM M SEPTIC T/ RC TEST PT) NO. PTI-1 PTI-1 PT3-1 PT1-2	HOLE DEPTH 9" 3" 12"	DAILY IL - 1250 G ERCOL SOIL T CLAY E LOA CLAY E	ATION YPE OAM OAM	40 CHO I TEST R SOAKED YES YES YES	1 3 MIN. 1 MIN. 6 MIN.	S TEST 9 MIN: 1 MIN. 7 MIN. 1 MIN.	RUNS 3 9 Min. 3 Min. 7 Min. 1 Min.	4
^{NO.}	ALL 4-E MD	SDS DESIC REDROM M SEPTIC T/ RC TEST PT) NO. PTI-1 PT2-1 PT3-1	AXIMUM; ANK SIZE HOLE DEPTH 9" 5" 12"	DAILY TL 1250 G ERCOL SOIL T GLAY E LOA	ATION YPE OAM OAM No OAM	40 GPD ITEST R SOAKED YES YES	1 3 MIN. 1 MIN. 6 MIN.	S TEST 2 8 MIN: 1 MIN. 7 M92. 1 MIN. 8 MIN.	RUNS 3 9 MiN. 1 MiN. 7 MiN.	4
<u>1</u>	ALL 4-E MIN.	SDS DESIC REDROUM M SEPTIC T/ RC TEST PT) NO. PTI-1 PT2-1 PT2-1 PT1-2 PT1-2 PT2-2	AXRAUM; AXRAUM; SIZE P HOLE DEPTH 9" 9" 12" 12" 12"	DAILY T	ATION YPE OAM OAM NA OAM OAM	40 GPD ITEST R SOAKED YES YES YES YES YES YES	1 3 MIN. 1 MIN. 5 MIN. 1 MIN. 7 MIN.	S TEST 2 8 MIN: 1 MIN. 7 MP. 1 MIN. 8 MIN. 20 MIN. 3 MIN.	RUNS 3 9 Mill. 1 Mill. 1 Mill. 9 Mill.	4
^{NO.}		SDS DESIC RC TEST PT]-4 PT]-4 PT]-4 PT]-2 PT]-2 PT]-3 PT]-4 PT]-4 PT]-4 PT]-4 PT]-4 PT]-4 PT]-4 PT]-4 PT]-4 PT]-4	AXIMUM; SIZE P HOLE DEPTH 9" 9" 12" 12" 12" 12" 12" 12" 12" 12"	DALLY FL 1250 G ERCOL SOIL T GLAY E LOA CLAY E CLAY E CLAY E LOA CLAY E CLAY E CLAY E CLAY E CLAY E CLAY E	A TION YPE OAM OAM OAM OAM OAM	40 GPD TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 5 MIN. 1 MIN. 7 MIN. 1 MIN. 1 MIN.	S TEST 2 8 MIN; 1 MIN, 7 M98, 1 MIN, 8 MIN, 20 MIN, 3 MIN, 19 MIN, 43 MIN,	RUNS 3 3 9 MiN. 3 MiN. 7 MiN. 1 MiN. 9 MiN. 20 MiN. 20 MiN.	4
^{NO.}		SDS DESIG REDROOM M SEPTIC T RC TEST PT]-1 PT]-1 PT]-2 PT]-2 PT]-2 PT]-3 PT]-4	AXIMUM; SIZE P HOLE DEPTH 9" 9" 12" 12" 12" 12" 12" 12" 12"	DAILY FL 1250 G ERCOL SOIL T CLAY E CLAY E LOA CLAY E CLAY E CLAY E CLAY E LOA	A TION YPE OAM OAM OAM OAM OAM	40 GHD TEST R SOAKED YES YES YES YES YES YES YES YES	1 3 MIN. 5 MIN. 6 MIN. 7 MIN. 19 MIN. 19 MIN. 19 MIN.	S 1 MIN: 1 MIN. 7 MR. 1 MIN. 5 MIN. 20 MIN. 3 MIN. 19 MIN.	RUNS 3 9 MiN. 9 MiN. 1 1 MiN. 1 1 MiN. 1 MiN. 1 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 1 I/I MiN. 2 MiN. 1 MiN. 1 I/I MiN. 1 MiN. MiN. 1	
NO. 1 2 3		SDS DESIC RC TEST PTI - 1 PTI - 1 PTI - 1 PTI - 2 PTI - 2 PTI - 2 PTI - 3 PTI - 4 PTI - 4 PTI - 4 PTI - 4 PTI - 5 PTI - 6	AMAUNA; PP HOLE DEPTH 9" 8" 12" 12" 12" 12" 12" 12" 12" 12	DALLY C	A TION YPE .0AM .0AM .0AM .0AM .0AM .0AM .0AM .0AM	40 GBO TEST R SOAKED YES YES YES YES YES YES YES YES YES YES	1 3 MIN. 3 MIN. 1 MIN. 5 MIN. 1 MIN. 1 MIN. 1 MIN. 15 MIN. 15 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN.	S TEST 2 8 MIN: 1 MIN. 7 M9R. 1 MIN. 20 MIN. 3 MIN. 19 ARN. 43 MIN. 3 MIN. 19 ARN. 3 MIN. 7 MIN.	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 9 MIN. 20 MIN. 2 MIN. 24 MIN. - 4 MIN. 2 MIN.	4 - - - - - - - - - - - - - - - - - - -
^{NO.}		SDS DESIC RC TEST PTI NO. PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-2 PTI-3 PTI-4 PTI-4 PT2-4 PT2-4 PT2-5	AMAUNA; NIK SIZE P HOLE DEPTH 9° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12	DALLY CL 1250 C ERCOL SOIL T CLAY L CLAY	ATION YPE JOAH JOAH JOAM JOAM JOAM JOAM JOAM JOAM JOAM JOAM	40 GHD ITEST R SOAKED YES YES YES YES YES YES YES YES YES YES	1 3 MIN. 3 MIN. 5 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN.	S TEST 2 8 MIN: 1 MIN. 7 M92. 1 MIN. 20 MIN, 3 MIN. 20 MIN, 3 MIN. 19 MIN. 43 MIN. 43 MIN. 2 MIN.	RUINS 3 9 MIN. 9 MIN. 1 1 MIN. 1 9 MIN. 1 1 MIN. 2 MIN. 4 MIN. <	
NO. 1 2 3		SDS DESIC RC TEST PTI-1 RC TEST PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PT2-4 - PTI-4 PT2-5 PTI-6 PTI-6 PTI-7	AMAUNA MAKENA P HOLE DEPTH 9" 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12		ATION YPE .0AM .0AM .0AM .0AM .0AM .0AM .0AM .0AM	40 GHD TEST R SOAKED YES YES YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 5 MIN. 5 MIN. 1 MIN. 1 MIN. 15 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN.	S 2 8 MIN: 1 MIN. 1 MIN. 7 MON. 1 MIN. 8 MIN. 20 MIN. 3 MIN. 19 MIN. 3 MIN.	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 7 MIN. 2 MIN. 2 MIN. 4 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN.	
^{NO.} 1 2 3		SDS DESIC RC TEST PT1-1 PT2-1 PT1-2 PT1-2 PT1-2 PT1-2 PT1-2 PT1-2 PT1-3 PT1-2 PT1-3 PT1-4 PT2-5 PT1-6 PT3-6	AMAUNA; MIK SIZE P HOLE DEPTH 9" 6" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12		A TION YPE .0AM .0AM .0AM .0AM .0AM .0AM .0AM .0AM	40 GPD ITEST R SOAKED YES YES YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 5 MIN. 1 MIN. 5 MIN. 1 MI	S TEST 2 B MIN: 1 MIN. 7 MP. 1 MIN. 3 MIN. 20 MIN. 3 MIN. 19 MIN. 43 MIN. 19 MIN. 43 MIN. 19 MIN. 3 MIN. 19 MIN. 3 MIN. 10 MIN.	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 7 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 17 MIN.	
NO. 1 2 3 6 7 8		SDS DESIC RC TEST PTI NO. PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-2 PTI-3 PTI-4 PTI-4 PT2-4 PT2-4 PT2-5 PT1-6 PT1-6 PT1-6 PT1-7 PT2-7	AXAUMA; AXAUMA; P HOLE DEPTH 9' 6' 12" 12" 12" 12" 12" 12" 12" 12" 12" 12"	DAILY 9 1250 C ERCOL SOIL 7 CLAY L CLAY L CLAY L CLAY L CLAY L CLAY L CLAY C CLAY C C C C C C C C C C C C C C	A TION YPE 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM	40 GPD TEST R SOAKED YES YES YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 1 MIN. 5 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN.	S TEST 2 8 MIN; 1 MIN, 7 M92, 1 MIN, 8 MIN, 20 MIN, 3 MIN, 19 MIN, 43 MIN, 43 MIN, 2 MIN, 3 MIN, 3 MIN, 4 MIN,	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 7 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN.	
NO. 1 2 3 6 7		SDS DESIC RC TEST PT) NO. PTI-1 PT3-1 PT1-2 PT2-2 PT1-2 PT1-2 PT1-2 PT1-3 PT1-2 PT2-3 PT1-4 PT2-4 PT2-4 PT2-4 PT2-5 PT1-6 PT1-6 PT1-6 PT1-7 PT2-6 PT1-7 PT1-7 PT1-7 PT2-8 PT2-9 PT2-9	AXAUMA; AXAUMA; P HOLE DEPTH 9" 8" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 9 - 1250 C ERCOL SOIL 7 CLAY L CLAY L SANDY SANDY SANDY	A TION YPE OAM OAM OAM OAM OAM OAM OAM OAM OCKY M DOCKY DOCKY	40 GPD TEST R SOAKED YES YES YES YES YES YES YES YES YES YES	ESULT 1 3 3 MIN. 5 MIN. 5 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 2 MIN. 1 MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MI	S TEST 2 8 MIN: 1 MIN. 7 M94. 1 MIN. 8 MIN. 20 MIN, 3 MIN. 20 MIN, 3 MIN. 19 MIN. 43 MIN. 43 MIN. 43 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN.	RUNS 3 9 Min. 1 Min. 7 Min. 7 Min. 7 Min. 2 Min. 2 Min. 2 Min. 2 Min. 2 Min. 17 Min. 2 Min. 1 Min. 3 Men. 1 Min. 1 Min. 1 Min.	
^{NO.} 1 2 3 6 7 8 9		SDS DESIC RC TEST PTI-1 RC TEST PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PT2-3 PTI-4 PT2-4 - PT1-4 PT2-6 PT1-6 PT1-6 PT1-7 PT1-8 PT1-9	AMAUNA AMAUNA NIK SIZE P DEPTH 9" 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 91 1250 C ERCOL SOIL T CLAY L CLAY	A TION YPE .0AM	40 GHO TEST R SOAKED YES YES YES YES YES YES YES YES YES YES	1 MIN. 1 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 1 MIN.	S TEST 2 B MIN: 1 MIN. 7 M92. 1 MIN. 2 MIN. 20 MIN. 3 MIN. 20 MIN. 43 MIN. 43 MIN. 43 MIN. 43 MIN. 43 MIN. 2 MIN. 2 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN. 1 MIN. 1 MIN.	RUNS 3 9 MIN. 9 MIN. 1 MIN. 7 MIN. 1 MIN. 9 MIN. 2 MIN. 1 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. - - 4 MIN. - - 4 MIN. - - 2 MIN. - - 3 MIN. - - 4 MIN. - - 3 MIN. - - 3 MIN. - - 3 MIN. - - 2 MIN. - - 3 MIN. - - 2 MIN. - - 4 MIN. - - 4 MIN. - - 2 MIN. - <td>4 </td>	4
^{NO.} 1 2 3 6 7 8 9 10		SDS DESIC RC TEST PTI-1 RC TEST PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-4 PTI-5 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-7 PTI-7 PTI-8 PTI-9 PTI-9 PTI-9 PTI-9 PTI-10 PTI-10 PTI-11	AXAUMA AXAUMA NIK SIZE P DEPTH 9" 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 91 2014 21250 C 21250	A TION YPE 0,0,44 0,0,0,44 0,0,0,44 0,0,0,0,	40 GHO TEST R SOAKED YES YES YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 3 MIN. 1 MI	S 2 8 MIN; 1 MIN, 7 M92, 1 MIN, 5 MIN, 20 MIN, 3 MIN, 3 MIN, 3 MIN, 3 MIN, 3 MIN, 1 MIN, 3 MIN, 3 MIN, 2 MIN, 3 MIN, 4 MON, 1 MIN, 3 MIN,	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 7 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN.	4
^{NO.} 1 2 3 6 7 8 9 10		SDS DESIC RC TEST PT1-1 RC TEST PT1-1 PT1-2 PT1-2 PT1-2 PT1-2 PT1-2 PT1-2 PT1-2 PT1-3 PT1-2 PT1-3 PT1-4 PT2-3 PT1-4 PT2-4 - PT1-5 PT1-6 PT1-6 PT1-7 PT1-6 PT1-7 PT1-8 PT2-9 PT1-9 PT1-9 PT1-9 PT1-10 PT2-10	AMAUNA AMAUNA MIK SIZE P P DEPTH 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 91 1250 C ERCOL SOIL 7 CLAY L CLAY	A TION YPE .0AM	40 GHD TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 5 MIN. 5 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 2 MIN. 1 MIN.	S TEST 2 B MIN: 1 MIN. 7 MP. 1 MIN. 3 MIN. 20 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 19 MIN. 20 MIN. 19 MIN. 2 MIN. 17 MIN. 2 MIN. 17 MIN. 2 MIN. 17 MIN. 3 MIN. 1 MIN. 3 MIN. 1 MIN. 3 MIN. 1 MIN.	RUNS 3 9 MiN. 1 MiN. 7 MiN. 1 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 3 MiN. 3 MiN. 3 MiN.	4
 NO. 1 2 3 6 7 8 9 10 11 		SDS DESIC RC TEST PT) NO. PTI-1 PT2-1 PT2-2 PT2-2 PT1-2 PT2-2 PT1-2 PT2-3 PT1-4 PT2-4 PT2-4 PT2-4 PT2-4 PT2-5 PT1-4 PT2-5 PT1-6 PT2-6 PT2-6 PT2-6 PT2-6 PT2-6 PT2-6 PT2-6 PT2-7 PT2-7 PT2-7 PT2-7 PT2-8 PT2-9 PT2-9 PT2-9 PT2-10 PT2-10 PT2-11 PT2-11 PT2-11	AXAUNA AXAUNA MIK SIZE P HOLE DEPTH 9° 12" 12" 12" 12" 12" 12" 12" 12" 12" 12"	DALLY CI 2011 - 1250 C ERCOL SOIL T CLAY L CLAY L	A TION YPE OAM OAM OAM OAM OAM OAM OAM OAM OAM OAM	40 GPO TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 1 MIN. 5 MIN. 1 MI	S TEST 2 B MIN: 1 MIN. 7 M92. 1 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 20 MIN. 20 MIN. 21 MIN. 22 MIN. 2 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN. 3 MIN.	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN.	
NO. 1 2 3 6 7 8 9 10 11		SDS DESIC RC TEST PTI-1 RC TEST PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PT2-3 PTI-4 PT2-4 - PT1-4 PT2-5 PT1-6 PT2-6 PT1-6 PT1-6 PT2-6 PT1-7 PT1-8 PT1-7 PT1-8 PT1-9 PT1-9 PT1-9 PT1-9 PT1-10 PT1-12 PT1-10 PT1-12 PT	AXAMIA; AXAMIA; NIK SIZE P DEPTH 9" 6" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DALLY C 1250 C ERCOL SOIL T CLAY L CLAY L	A TION YPE .0AM	40 GP0 TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 1 MIN. 5 MIN. 1 MI	S TEST 2 9 MIN: 1 MIN. 1 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 20 MIN. 20 MIN. 20 MIN. 20 MIN. 20 MIN. 20 MIN. 21 MIN. 21 MIN. 21 MIN. 21 MIN. 3 MIN.	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 9 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN. 3 MIN. 3 MIN. 3 MIN. 7 MIN. 9 MIN. 1 MIN. 9 MIN. 1 MIN. 9 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN. 1 MIN.	4 - - - - - - - - - - - - - - - - - - -
NO. 1 2 3 6 7 8 9 10 11 11 12		SDS DESIC RC TEST PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-3 PTI-4 PTI-5 PTI-4 PTI-5 PTI-6 PTI-6 PTI-6 PTI-6 PTI-7 PTI	AXAUMA AXAUMA MIK SIZE P HOLE DEPTH 9° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12	DAILY 91 2014 21250 C 21250	A TION YPE 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 0,0AM 1,0	40 GH0 TTEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 5 MIN. 1 MIN. 7 MIN. 1 MI	S TEST 2 9 MIN; 1 MIN, 1 MIN, 3 MIN, 20 MIN, 3 MIN, 20 MIN, 3 MIN, 20 MIN, 3 MIN, 43 MIN, 43 MIN, 2 MIN, 2 MIN, 2 MIN, 2 MIN, 1 MIN, 2 MIN, 3 MIN	RUNS 3 9 MiN. 1 MIN. 7 MIN. 7 MIN. 7 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN	
NO. 1 2 3 6 7 8 9 10 11 12		SDS DESIC RC TEST PTI-S PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-3 PTI-4 PTI-5 PTI-4 PTI-5 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-7 PTI	AXAUMA AXAUMA AXAUMA NIK SAZE P P DEPTH 9° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12	DALLY CI 2015 2015 2015 2015 2015 2017 20	A TION YPE ,0,0,4,4,4 ,0,0,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,4,	40 GH0 ITEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 3 MIN. 5 MIN. 5 MIN. 1 MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN. MIN.	S 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 3 1 3 1 3 1 3 1 3 1 2 1 2 1 2 3 1 2 1 2 3 3 4 4 1 2 3 4 4 4 4 4 4 4 4 4 5 4	RUNS 3 9 MiN. 3 MIN. 1 MIN. 3 MIN. 1 MIN. 3 MIN. 2 MIN. 2 MIN. 3 MIN. 3 MIN. 3 MIN. 9 MIN. 1 MIN. 9 MIN. 1 MIN. 11 MIN. 1 MIN. 9 MIN. 1 MIN. 11 MIN. 1 MIN. 1	
NO. 1 2 3 6 7 8 9 10 11 12 13		SDS DESIC RC TEST PTI-1 RC TEST PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-5 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-7 PTI-6 PTI-7 PTI-7 PTI-7 PTI-8 PTI-7 PTI-7 PTI-8 PTI-7 PTI-7 PTI-7 PTI-8 PTI-7 PTI-7 PTI-7 PTI-8 PTI-7 P	AMAUMA AMAUMA MIK SIZE P HOLE DEPTH 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 91 2014 21250 C 21250	A TION YPE .0AM .0AM .0AM .0AM .0AM .0AM .0AM .0AM .0AM .0AM LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM LOAM	40 GH0 TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 3 MIN. 3 MIN. 5 MIN. 1 MI	S TEST 2 B MIN: 1 MIN. 7 MR. 1 MIN. 3 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 4 MIN. 2 MIN. 1 MIN. 2 MIN. 1 MIN. 3	RUNS 3 9 MiN. 1 MiN. 7 MiN. 1 MiN. 9 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 2 MiN. 3 MiN. 3 MiN. 3 MiN. 3 MiN. 3 MiN. 3 MiN. 1 MiN. 3 MiN. 1 MiN. 3 MiN. 1 MiN.	
^{NO.} 1 2 3 6 7 8 9 10 11 12 13 14		SDS DESIC RC TEST PTI-0 PTI-1 PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-2 PTI-2 PTI-3 PTI-4 PTI-2 PTI-4 PTI-2 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-5 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-5 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-5 PTI-4 PTI-4 PTI-4 PTI-5 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-5 PTI-4 PTI-5 PTI-4 PTI-4 PTI-4 PTI-4 PTI-4 PTI-5 PTI-6 PTI-6 PTI-6 PTI-6 PTI-7 PTI	AXAMIA AXAMIA AXAMIA AXAMIA P P DEPTH 9' 6" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 91 1250 C ERCOL SOIL 7 CLAY L CLAY	A TION YPE ,0AM	40 GP0 TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 1 MIN. 5 MIN. 1 MI	S TEST 2 B MIN: 1 MIN. 7 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 3 MIN. 43 MIN. 43 MIN. 43 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN. 2 MIN. 3 MIN. 3 MIN. 4 MAN. 3 MIN. 3 MIN. 4 MAN. 3 MIN. 3	RUNS 3 9 MIN. 1 MIN. 1 MIN. 1 MIN. 2 MIN. 3 MIN. 9 MIN. 9 MIN. 11 MIN. 9 MIN. 13 MIN. 13 MIN. 14 MIN. 15 MIN. 13 MIN. 14 MIN. <td></td>	
^{NO.} 1 2 3 6 7 8 9 10 11 12 13 14		SDS DESIC RC TEST PTI - 1 PTI - 1 PTI - 1 PTI - 1 PTI - 1 PTI - 2 PTI - 3 PTI - 4 PTI - 4 PTI - 4 PTI - 4 PTI - 4 PTI - 5 PTI - 6 PTI - 6 PTI - 6 PTI - 6 PTI - 6 PTI - 7 PTI	AMAUMA AMAUMA MAKENE P P DEPTH 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY 91 2014 21250 C 2014 21250 C 2014 2147 L 2014 2147 L 2014 21	A TION YPE ,0,0,44	40 GHO TEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 MIN. 3 MIN. 3 MIN. 1 MIN. 5 MIN. 1 MI	S TEST 2 B MIN: 1 MIN. 7 MIN. 20 MIN. 20 MIN. 3 MIN. 20 MIN. 3 MIN. 3 MIN. 4 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 2 MIN. 3 MIN. 2 MIN. 3 MI	RUNS 3 3 MIN. 3 MIN. 1 MIN. 2 MIN. 3 MIN. 11 MIN. 9 MIN. 11 MIN. 12 MIN. 14 MIN. 9 MIN. 18 MIN.	
 NO. 1 2 3 6 7 8 9 10 11 12 13 14 15 16 16 		SDS DESIC RC TEST PTI-S PTI-1 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-2 PTI-3 PTI-4 PTI-5 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-6 PTI-7 PTI	AXAUMA AXAUMA AXAUMA MINK SAZE P P DEPTH 9" 12" 12" 12" 12" 12" 12" 12" 12" 12" 12	DAILY C. 2015 2015 2015 2015 2015 2017 20	A TION YPE ,0AM	40 GH0 ITEST R SOAKED YES YES YES YES YES YES YES YES	ESULT 1 3 3 MIN. 5 MIN. 5 MIN. 1 MIN. MIN. 1 MIN. MIN. MIN. MIN. MIN. MIN. MIN. MI	S 2 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 10 3 10 3 10 3 10 2 11 2 1 1 1 1 1 1 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <tr tr=""> 1</tr>	RUINS 3 9 MIN. 3 MIN. 1 MIN. 3 MIN. 1 MIN. 1 MIN. 2 MIN. 2 MIN. 3 MIN. 3 MIN. 1 MIN. 9 MIN. 1 MIN. 9 MIN. 1 MIN. 11 MIN. 1 MIN. 9 MIN. 1 MIN. 11 MIN. 1 MIN.	
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