USDA-NRCS NON-TECHNICAL SOIL DESCRIPTIONS - ONEIDA COUNTY

1 UDIFLUVENTS-FLUVAQUENTS COMPLEX, FREQUENTLY FLOODED Deep, nearly level, well drained to very poorly drained areas of unconsolidated alluvium, generally stratified and varying widely in texture and drainage over short distances. The alluvium has been recently deposited by streams and is subject to frequent changes through stream overflow. Due to locations along water courses, this soil is considered Hydric.

2 HAMLIN SILT LOAM Deep, nearly level, well drained, medium lime, loamy soil formed in recent alluvium. The available water capacity is high. Permeability is moderate. Considered as prime farmland. Non Highly Erodible Land.

4 WAKEVILLE SILT LOAM Deep, level or nearly level, moderately well drained, and somewhat poorly drained, medium to high lime, loamy soil formed in alluvium. The available water capacity is high. Permeability is moderate. If artificially drained, this soil is prime farmland. NON HEL.

7 WAYLAND SILT LOAM Deep, nearly level, poorly drained and very poorly drained, medium lime, loamy soil formed in alluvium. The available water capacity is moderate. Permeability is slow. Hydric soil.

9 WENONAH FINE SANDY LOAM Deep, nearly level, low lime, well drained soil formed in coarse silt and very fine sands on low terraces and floodplains. Available water capacity is moderate to high. Permeability is moderate to moderately rapid. This soil is considered as prime farmland. Non-HEL.

10 OTEGO SILT LOAM Deep, nearly level, medium lime, moderately well drained, loamy soil formed in alluvium. Available water capacity is high. Permeability is moderate. This soil is considered as prime farmland. Non-HEL.

12B HERKIMER GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well to moderately well drained, high to medium lime, loamy soil formed in alluvial fan deposits. The available water capacity is moderate. Permeability is moderate. This soil is considered a prime farmland. Non Highly Erodible Land.

12C HERKIMER GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well to moderately well drained, high to medium lime, loamy soil formed in alluvial fan deposits. Available water capacity is moderate. Permeability is moderate. This soil is considered to be HEL due to steepness.

13 FLUVAQUENTS - BOROSAPRISTS COMPLEX Deep, level or nearly level, moderately well drained, low lime, sandy soil formed in glacial outwash. The available water capacity is low to moderate. Permeability is rapid. Covert soils are Non Highly Erodible Land.

20 PITS, SAND AND GRAVEL

21 UDORTHENTS, REFUSE SUBSTRATUM Deep, nearly level to gently sloping, well to somewhat excessively drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderate to moderately rapid in the solum and rapid in the substratum. This soil is considered to be prime farmland and is Non Highly Erodible Land.

22 UDORTHENTS, SMOOTHED Udorthents, smoothed and graded

23 URBAN LAND Urban Land

24A HOWARD GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well-drained, medium lime, gravelly loam soil formed in outwash. The available water capacity is high. Permeability is moderate to very rapid. These soils are considered to be prime farmland. Non Highly Erodible Land.

24B HOWARD GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, medium lime, gravelly loam soil formed in outwash. The available water capacity is high. Permeability is moderate to very rapid. These soils are considered to be prime farmland. Non Highly Erodible Land.

24C HOWARD GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, medium lime, gravelly loam soil formed in outwash. The available water capacity is high. Permeability is moderate to very rapid. Considered to be Highly Erodible Land due to slope.

27A NICHOLVILLE SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, moderately well drained, low lime soils. This soil formed in water or wind deposited silt and very fine sand on lake plains and low benches on uplands. Permeability is moderate. Available water capacity is high. This soil is considered as prime farmland and is Non Highly Erodible Land

27B NICHOLVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, low lime soils. This soil formed in water or wind deposited silt and very fine sand on lake plains and low benches on uplands. Permeability is moderate. Available water capacity is high. This soil is considered as prime farmland and is Highly Erodible Land.

28A PHELPS GRAVELLY SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, moderately well drained, high lime, gravelly loamy soil formed in glacial outwash sand and gravel. The available water capacity is moderate. Permeability is moderate to rapid. This soil is considered as prime farmland and is Non Highly Erodible Land.

28B PHELPS GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, high lime, gravelly loamy soil formed in glacial outwash sand and gravel. The available water capacity is moderate. Permeability is moderate to rapid. This soil is considered as prime farmland and is Highly Erodible Land.

25 PITS, BORROW

30 FREDON GRAVELLY SILT LOAM Deep, nearly level, somewhat poorly drained, medium lime, loamy soil formed in glacial outwash. The available water capacity is moderate. Permeability is moderate to rapid. Fredon soils may have Hydric inclusion within. Soils are Non Highly Erodible Land.

31 HALSEY GRAVELLY SILT LOAM Deep level to nearly level, very poorly drained, medium to high lime, loamy soil formed in gravelly glacial outwash. The Available water capacity is moderate. Permeability is moderate to rapid. Halsey soils are Hydric.

33A ALTON-URBAN LAND COMPLEX, 0 TO 3 PERCENT SLOPES This unit consists of areas where at least 50% of the surface is covered by buildings, parking lots, or other impervious

structures. Most areas are nearly level, but a few small areas are gently sloping. Included with this unit in mapping are areas of Udorthents and small areas of Alton.

33B ALTON-URBAN LAND COMPLEX, 3 TO 8 PERCENT SLOPES This unit consists of areas where at least 50% of the surface is covered by buildings, parking lots, or other impervious structures. Most areas are nearly level, but a few small areas are gently sloping. Included with this unit in mapping are areas of Udorthents and small areas of Alton.

34D HOWARD AND ALTON SOILS, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well-drained, high lime, gravelly loamy soil formed in glacial outwash sand and gravel. The available water capacity is moderate. Permeability is moderate to rapid.

34E HOWARD AND ALTON SOILS, 25 TO 45 PERCENT SLOPES Deep, moderately steep, well-drained and excessively drained, medium lime, gravelly loam soils formed in outwash. The available water capacity is low to moderate. Permeability is moderate to very rapid. Considered to be HEL due to steepness.

35A UNADILLA SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well-drained, low lime soil. This oil formed in wind or water deposited material high in coarse silt and very fine sand. Permeability is moderate. Available water capacity is high. This soil is considered to be prime farmland and in Non Highly Erodible Land.

35B UNADILLA SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, low lime soil. This soil formed in wind or water deposited material high in coarse silt and very fine sand. Permeability is Moderate. Available water capacity is high. This soil is considered to be prime farmland and is Highly Erodible Land.

35C UNADILLA SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, low lime soil. This soil formed in wind or water deposited material high in coarse silt and very fine sand. Permeability is moderate. Available water capacity is high. This soil is Highly Erodible Land.

36A SALMON SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well-drained, low lime soil. This soil formed in wind or water deposited material high in silt and very fine sand. Permeability is moderate. Available water capacity is high. This soil is considered to be prime farmland and is Non Highly Erodible Land.

36B SALMON SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, low lime soil. This soil formed in wind or water deposited material high in silt and very fine sand. Permeability is moderate. Available water capacity is high. This soil is considered as prime farmland and is Highly Erodible Land.

36C SALMON SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, low lime soil. This soil formed in wind or water deposited material high in silt and very fine sand. Permeability is moderate. Available water capacity is high. This soil is Highly Erodible Land.

38A CHENANGO GRAVELLY SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level to gently sloping, well to somewhat excessively drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderate to moderately rapid in the solum and rapid in the substratum. This soil is considered to be prime farmland and is Non Highly Erodible Land.

38B CHENANGO GRAVELLY SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well to somewhat excessively drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderate to moderately rapid in the solum and rapid in the substratum. This soil is considered to be prime farmland and in Non Highly.

38C CHENANGO GRAVELLY SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well to somewhat excessively drained, low lime, gravelly soil formed in glacial outwash. Available water capacity is very low to moderate. Permeability is moderate to moderately rapid in the solum and rapid in the substratum. This soil is Highly Erodible Land.

38D CHENANGO GRAVELLY SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well to somewhat excessively drained, low lime, gravelly soil formed in glacial outwash. Available water capacity is very low to moderate. Permeability is moderate to moderately rapid in the solum and rapid in the substratum. This soil is Highly Erodible Land.

38E CHENANGO GRAVELLY SILT LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, well to somewhat excessively drained, low lime, gravelly soil formed in glacial outwash. Available water capacity is very low to moderate. Permeability is moderate to moderately rapid in the solum and rapid in the substratum. This soil is Highly Erodible Land.

39A KNICKERBOCKER FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES Deep, level to nearly level, well-drained, low lime, loamy soil over stratified sand and some gravel formed in glacial outwash. The available water capacity is moderate to high. Permeability is moderate to rapid. This soil is considered to be prime farmland and is Non Highly Erodible Land.

39B KNICKERBOCKER FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, low lime, loamy soil over stratified sand and some gravel formed in glacial outwash. The available water capacity is moderate to high. Permeability is moderate to rapid. This soil is considered to be prime farmland is Non Highly Erodible Land.

39C KNICKERBOCKER FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, low lime, loamy soil over stratified sand and some gravel formed in glacial outwash. This soil is Highly Erodible Land.

41 NIAGARA FINE SANDY LOAM Deep, nearly level, medium lime, somewhat poor and poorly drained soil formed in loamy and clayey glacial lacustrine and marine terraces. Permeability is moderately rapid in the upper loamy layers and slow or very slow in the underlying clayey layers. Niagara soils may have Hydric inclusion within this map unit.

42 CASTILE GRAVELLY LOAM Very deep, nearly level to gently sloping, moderately well drained low lime soils formed in gravelly outwash deposits. Typically gravelly loam horizons are over stratified sands and gravels. Internal drainage is rapid; runoff is slow. Available water capacity is high. Permeability is moderate to rapid. This soil is considered to be prime farmland and is Non Highly Erodible Land.

43 SAUGATUCK SAND Deep, nearly level, low lime, somewhat poor and poorly drained soil with a strongly cemented subsoil (ortstein) formed in sand on outwash plains, lake plains and till plains. Permeability is slow in the ortstein and rapid in the rest of the soil. Saugatuck sands are Hydric soils.

46A COLOSSE GRAVELLY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level to gently sloping, excessively to well drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is

moderately rapid to rapid. This soil is considered to be prime farmland and is Non Highly Erodible Land.

46B COLOSSE GRAVELLY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES Deep, nearly level to gently sloping, excessively to well drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderately rapid to rapid. This soil is considered to be prime farmland and is Non Highly Erodible Land.

46C COLOSSE GRAVELLY FINE SANDY LOAM, 8 TO 15 PERCENT Deep, sloping, excessively to well drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderately rapid to rapid. This soil is Highly Erodible Land.

46D COLOSSE GRAVELLY FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, excessively to well-drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderately rapid to rapid. This soil is Highly Erodible Land.

46E COLOSSE GRAVELLY FINE SANDY LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, excessively to well drained, low lime, gravelly soil formed in glacial outwash. The available water capacity is very low to moderate. Permeability is moderately rapid to rapid. This soil is Highly Erodible Land.

47A SCIO SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, moderately well drained medium lime soils on terraces. They formed in water or wind deposited silt and very fine sand. Available water capacity is high. Permeability is moderate. These soils are considered to be prime farmland and are Non Highly Erodible Land.

47B SCIO SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained medium lime soils on terraces. They formed in water or wind deposited silt and very fine sand. Available water capacity is high. Permeability is moderate. These soils are considered to be prime farmland and are Highly Erodible Land.

50 PIPESTONE LOAMY FINE SAND Deep, low lime, level or nearly level, somewhat poor and poorly drained soils formed in sand on outwash plains, deltas, and stream terraces. Permeability is rapid. Available water capacity is low. Pipestone soils are Hydric.

54D COLTON GRAVELLY SANDY LOAM, 15 TO 25 PERCENT SLOPES Deep, well to excessively well drained soils, moderately steep soils formed in friable, glacial outwash on outwash plains, terraces, kames and eskers. Permeability is rapid or very rapid. Internal drainage is medium to very rapid. These soils are Highly Erodible Land.

55A ADAMS LOAMY SAND, 0 TO 3 PERCENT SLOPES Deep, nearly level, well to excessively drained low lime soils formed on sand plains and deltaic deposits. Permeability is moderately rapid to rapid. Available water capacity is low to moderate. Soils are Non Highly Erodible Land.

55B ADAMS LOAMY SAND, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well to excessively drained low lime soils formed on sand plains and deltaic deposits. Permeability is

moderately rapid to rapid. Available water capacity is low to moderate. Soils are Non Highly Erodible Land.

55C ADAMS LOAMY SAND, 8 TO 15 PERCENT SLOPES Deep, well to excessively drained low lime soils formed on sand plains in outwash and deltaic deposits. Permeability is moderately rapid to rapid. Available water capacity is low to moderate. Soils are Highly Erodible Land.

55D ADAMS LOAMY SAND, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well to excessively drained low lime soils formed in sand plains on outwash and deltaic deposits. Permeability is moderately rapid to rapid. Available water capacity is low to moderate. Soils are Highly Erodible Land.

55E ADAMS LOAMY SAND, 25 TO 45 PERCENT SLOPESAGR Deep, very hilly, well to excessively well drained, low lime combination of a loamy soil over stratified sand with some gravel and of a sandy soil that is gravelly throughout. The available water capacity is low to moderate. Permeability is rapid.

56B BECKET FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, VERY STONY Deep, gently sloping, well drained low lime soils formed in friable to firm glacial till. Permeability is moderate in the solum and moderately slow to slow in the substratum. Available water capacity is low to moderate. Soils are Non Highly Erodible.

56C BECKET SANDY LOAM, 8 TO 15 PERCENT SLOPES, VERY STONY Deep, sloping, well drained low lime soils formed in friable to firm glacial till. Permeability is moderate in the solum and moderately slow to slow in the substratum. Available water capacity is low to moderate. Soils are Highly Erodible Land.

56D BECKET FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, VERY STONY Deep, moderately steep, well drained low lime soils formed in friable to firm glacial till. Permeability is moderate in the solum and moderately slow to slow in the substratum. Available water capacity is low to moderate. Soils are Highly Erodible Land.

57A CROGHAN LOAMY SAND, 0 TO 3 PERCENT SLOPES Deep, level to nearly level, moderately well drained, low lime, sandy soil formed in lacustrine deposits. The available water capacity is moderate. Permeability is rapid. Soils are Non Highly Erodible Land.

57B CROGHAN LOAMY SAND, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, low lime, sandy soil formed in lacustrine deposits. The available water capacity is moderate. Permeability is rapid. Soils are Non Highly Erodible Land.

60A ADIRONDACK FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, VERY BOULDERY Deep, nearly level, low lime, somewhat poor and poorly drained soils formed in loamy glacial till on uplands. Available water capacity is moderate. Permeability is moderate. Adirondack soils may have Hydric inclusions within. Soils are Non Highly Erodible Land.

60B ADIRONDACK FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, VERY BOULDERY Deep, gently sloping, low lime, somewhat poor and poorly drained soils formed in loamy glacial till on uplands. Available water capacity is moderate. Permeability is moderate. Adirondack soils may have Hydric inclusions within. Soils are Non Highly Erodible Land.

61A SCHOHARIE SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well and moderately well drained, medium lime, clayey soil formed in lacustrine, deposits. Available water capacity is high. Permeability is slow. This soil is Non Highly Erodible Land.

61B SCHOHARIE SILT LOAM, 3 TO 8 PERCENT Deep, gently sloping, well-drained and moderately well drained, medium lime, clayey soil formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This soil is Highly Erodible Land.

61C SCHOHARIE SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained and moderately well drained, medium lime, clayey soil formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This soil is Highly Erodible Land.

61E SCHOHARIE SILT LOAM, 25 TO 45 PERCENT SLOPES Deep, moderately steep, well-drained and moderately well drained, medium lime, clayey soils formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This soil is Highly Erodible Land.

62C BECKET-TUNBRIDG COMPLEX, 3 to 15 PERCENT SLOPES A complex of deep, and moderately deep (20-40 inches to bedrock), low lime, well-drained soils formed in glacial till on bedrock controlled glaciated uplands. Permeability is moderate to moderately rapid. Available water capacity is low. This soil is Highly Erodible Land.

62D BECKET-TUNBRIDGE COMPLEX, 15 TO 35 PERCENT SLOPES, ROCKY A complex of deep, and moderately deep (20-40 inches to bedrock), low lime, well drained soils formed in glacial till on bedrock controlled glaciated uplands. Permeability is moderate to moderately rapid. Available water capacity is low. This soil is Highly Erodible Land.

63A WALLINGTON VERY FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, low lime, loamy soil high in silts and very fine sands, formed in lacustrine deposits. It has a very firm fragipan at a depth of 12 to 24 inches. The available water capacity is moderate. Permeability is moderate to slow. Wallington soils may have Hydric inclusions within. Soils are Non Highly Erodible Land.

63B WALLINGTON VERY FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, somewhat poorly drained, low lime, soil high in silts and very fine sands and formed in lacustrine deposits. There is a firm layer (fragipan) at a depth of 12 to 24 inches. Available water capacity is moderate. Permeability is moderate in the upper part and slow in the fragipan. Wallington soils may have Hydric inclusion within. Soils are Non Highly Erodible Land.

64A RHINEBECK SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, level or nearly level, somewhat poorly drained, medium lime, clayey soil formed in reddish lacustrine deposits. The available water capacity is moderate. Permeability is slow or very slow. Rhinebeck soils may have Hydric inclusions within. Soils are Non Highly Erodible Land.

64B RHINEBECK SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, somewhat poorly drained, medium lime, clayey soil formed in reddish lacustrine deposits. The available water capacity is moderate. Permeability is slow or very slow. Rhinebeck soils may have Hydric inclusions within. Soils are Non Highly Erodible Land.

65F TUNBRIDGE-LYMAN COMPLEX, 35 TO 60 PERCENT SLOPES, VERY ROCKY Moderately deep, low lime, well drained soils formed in glacial till on bedrock controlled

glaciated uplands. Exposed rock faces make up a portion of this unit. Permeability is moderate to moderately rapid. Available water capacity is low. Soils are Highly Erodible Land.

68 RAYNHAM SILT LOAM, RARELY FLOODED Deep, somewhat poor and poorly drained soils formed in silty lacustrine deposits on glacial lake plains and terraces. Permeability is moderate or moderately slow in the upper part and slow in the substratum. Available water capacity is moderate to high. Raynham soils may have Hydric inclusions within. Soils are Non Highly Erodible Land.

72 CANANDAIGUA SILT LOAM Deep, level or nearly level, poorly drained, medium lime, silty soil formed in lacustrine deposits. The available water capacity is high. Permeability is moderately slow. Soils are Hydric.

74B BERKSHIRE FINE SANDY LOAM, 3 to 8 PERCENT SLOPES Deep, nearly level, moderately well to somewhat poorly drained, low lime, loamy soil that has upper layers of silt and very fine sand formed in glacial till. It has a very firm fragipan at a depth of 16 to 28 inches. The available water capacity is moderate. Permeability is slow.

74C BERKSHIRE FINE SANDY LOAM, 8 to 15 PERCENT SLOPES Deep, gently sloping, moderately well to somewhat poorly drained, low lime, loamy soil that has upper layers of silt and very fine sand formed in glacial till. It has a very firm fragipan at a depth of 16 to 28". The available water capacity is moderate. Permeability is slow.

75 LAMSON FINE SANDY LOAM Deep, level or nearly level, poorly drained and very poorly drained, medium lime, loamy soil over fine sand and very fine sand formed in lacustrine deposits. The available water capacity is low to moderate. Permeability is slow to moderate. Soils are Hydric.

76 NIAGARA SILT LOAM Deep, level or nearly level, somewhat poorly drained, medium lime, silty soil formed in lacustrine deposits. The available water capacity is high. Permeability is moderately slow. Niagara soils may have Hydric inclusion within. Soils are Non Highly Erodible Land.

77A COLLAMER SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, level or nearly level, moderately well drained, medium lime, silty soil formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This is prime farmland soil and is Non Highly Erodible Land.

77B COLLAMER SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, medium lime, silty soil formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This soil is Highly Erodible Land.

77C COLLAMER SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, moderately well drained, medium lime, silty soil formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This soil is Highly Erodible Land.

77D COLLAMER SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, moderately well drained, medium lime silty soil formed in lacustrine deposits. The available water capacity is high. Permeability is slow. This soil is Highly Erodible Land.

78A ARKPORT FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well drained, low to medium lime, loamy soil over loamy sands or loamy very fine sand formed in

lacustrine deposits. Available water capacity is high. Permeability is moderately rapid. This soil is prime farmland and is Non Highly Erodible Land.

78B ARKPORT FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well-drained, low to medium lime, loamy soil over loamy sands or loamy very fine sand formed in lacustrine deposits. The available water capacity is high. Permeability is moderately rapid. This soil is prime farmland soil and is Highly Erodible Land.

78C ARKPORT FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well-drained, low to medium lime, loamy soil over loamy sands or loamy very fine sand formed in lacustrine deposits. The available water capacity is high. Permeability is moderately rapid. Soil is Highly Erodible Land.

79A ROUNDABOUT SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, low lime, somewhat poor and poorly drained soils formed in lacustrine and marine sediments. Permeability is moderate or moderately slow in the solum and moderately slow or slow in the substratum. Roundabout soils may have Hydric inclusions within and are Non Highly Erodible Land.

79B ROUNDABOUT SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, low lime, somewhat poor and poorly drained soils formed in lacustrine and marine sediments. Permeability is moderate or moderately slow in the solum and moderately slow or slow in the substratum. Roundabout soils may have Hydric inclusion within and is Non Highly Erodible Land.

81A COVERT LOAMY SAND, 0 TO 3 PERCENT SLOPES Deep, level or nearly level, moderately well drained, low lime, sandy soil formed in glacial outwash. The available water capacity is low to moderate. Permeability is rapid. Covert soils are Non Highly Erodible Land.

81B COVERT LOAMY SAND, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, low lime, sandy soil formed in glacial outwash. The available water capacity is low to moderate. Permeability is rapid. Covert soils are Non Highly Erodible Land.

90A WINDSOR LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES Deep, level or nearly level, excessively drained, low lime, sandy soil formed in glacial outwash. The available water capacity is low. Permeability is rapid. This soil is Non Highly Erodible Land.

90B WINDSOR LOAMY FINE SAND, 3 TO 8 PERCENT SLOPES Deep, gently sloping, excessively drained, low lime, sandy soil formed in glacial outwash. The available water capacity is low. Permeability is rapid. This soil is Non Highly Erodible Land.

90C WINDSOR LOAMY FINE SAND, 8 TO 15 PERCENT SLOPES Deep, sloping, excessively drained, low lime, sandy soil formed in glacial outwash. The available water capacity is low. Permeability is rapid. This soil is Highly Erodible Land.

90D WINDSOR LOAMY FINE SAND, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well to excessively well-drained, low lime, sandy soil formed in glacial outwash. Available water capacity is low. Permeability is rapid. This soil is Highly Erodible Land.

90E WINDSOR LOAMY FINE SAND, 25 TO 60 PERCENT SLOPES Deep, moderately steep and steep, excessively drained, low lime, sandy soils formed in glacial outwash. The available water capacity is low. Permeability is rapid. This soil is Highly Erodible Land.

92 NAPOLEAN PEAT Deep very poorly drained soils formed in organic material (primarily herbaceous in origin) more than 51 inches thick. This soil formed in bogs or depressional areas on till plains, outwash plains, lake plains and moraines. Permeability is moderate or moderately rapid. Available water capacity is high. These soils are Hydric.

94 NAUMBURG LOAMY FINE SAND Deep, nearly level to gently sloping, poorly drained and somewhat poorly drained, low lime, sandy soil formed in lacustrine deposits. The available water capacity is low to very low. Permeability is rapid. Naumburg soils are Hydric.

95 CARLISLE MUCK Deep, level and nearly level, very poorly drained, high- medium lime, organic soil formed in till plains and lake plains. The thickness of the organic deposit is greater than 51 inches. The available water capacity is high. Permeability is moderately rapid. Carlisle soils are Hydric.

96 CARBONDALE MUCK Deep, very poorly drained soils formed in organic material more than 51 inches thick on till plains, outwash plains and lake plains. Permeability is moderately slow to moderately rapid. Available water capacity is high. This soil is Hydric.

99 GREENWOOD PEAT Deep, level or nearly level, very poorly drained, low lime, organic soil formed in bogs, outwash or lake plains. The thickness of the partially decomposed organic deposit is more than 51 inches. The available water capacity is high. Permeability is moderately rapid. Greenwood soil is Hydric.

102B HONEOYE SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate to high . Permeability is moderate to slow. This soil is considered prime farm land and is Highly Erodible Land.

102C HONEOYE SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate to high. Permeability is moderate to slow. Soil is Highly Erodible Land.

102D HONEOYE SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate to high. Permeability is moderate to slow. Soils are Highly Erodible Land.

103B HONEOYE-URBAN LAND COMPLEX, 2 TO 8% SLOPES Urban Land Complex, 2 to 8% slopes.

104E HONEOYE AND CAZENOVIA SOILS, 25 TO 45 PERCENT SLOPES Deep, steep and very steep, well drained and moderately well drained, high lime, loamy soils formed in brown and reddish brown glacial till. The available water capacity is moderate to high. Permeability is moderate to slow. Soils are Highly Erodible Land.

109B CAZENOVIA SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained and moderately well drained, medium to high lime, loamy soil formed in reddish brown glacial till. The available water capacity is high. Permeability is slow. This soil is considered prime farm land and is Highly Erodible Land.

109C CAZENOVIA SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained and moderately well drained medium to high lime, loamy soil formed in reddish brown glacial till. The available water capacity is high. Permeability is slow. These soils are Highly Erodible Land.

109D CAZENOVIA SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained and moderately well drained, medium to high lime, loamy soil formed in reddish brown glacial till. The available water capacity is high. Permeability is slow. These soils are Highly Erodible Land.

111B LANSING SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, medium lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate to slow. This soil is considered as prime farm land and is Highly Erodible Land.

111C LANSING SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, medium lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate to slow. This soil is Highly Erodible Land.

111D LANSING SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained, medium lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate to slow. This soil is Highly Erodible Land.

111E LANSING SILT LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, well drained, medium lime, loamy soil formed in glacial till. Available water capacity is high. Permeability is moderate to slow. This soil is Highly Erodible Land.

113A CAMRODEN SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, low lime, loamy soil formed in glacial till. It has a very firm fragipan dominated by shale fragments at a depth of 15 to 36 inches. The available water capacity is moderate. Permeability is moderate to slow. This soil has Hydric inclusions within this series.

113B CAMRODEN SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, somewhat poorly drained, low lime, loamy soil formed in glacial till. It has a very firm fragipan dominated by shale fragments at a depth of 15 to 36 inches. The available water capacity is moderate. Permeability is moderate to slow. This soil has Hydric inclusions and is Highly Erodible Land.

113C CAMRODEN SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, somewhat poorly drained, low lime, loamy soil formed in glacial till. It has a very firm fragipan dominated by shale fragments at a depth of 15 to 36 inches. The available water capacity is moderate. Permeability is moderate to slow. This soil has Hydric inclusions and is Highly Erodible Land.

114B PINCKNEY SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well and moderately well drained low lime soils on glacial till uplands. This soil has a very firm Fragipan at a depth of 20 to 30 inches. Permeability is moderate in the upper part of the solum and slow in the lower part. Available water capacity is moderate. This soil is Highly Erodible Land.

114C PINCKNEY SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well and moderately well drained low lime soils on glacial till uplands. This soil has a very firm fragipan at a depth of 20 to 30 inches. Permeability is moderate in the upper part of the solum and slow in the lower part. Available water capacity is moderate. These soils are Highly Erodible Land.

114D PINCKNEY SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well and moderately well drained low lime soils on glacial till uplands. This oil has a very firm Fragipan at a depth of 20 to 30 inches. Permeability is moderate in the upper part of the solum and slow in the lower part. Available water capacity is moderate. This soil is Highly Erodible Land.

114E PINCKNEY SILT LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, well and moderately well drained low lime soils on glacial till uplands. This soil has a very firm fragipan at a depth of 20 to 30 inches. Permeability is moderate in the upper part of the solum and slow in the lower part. Available water capacity is moderate. This soil is Highly Erodible Land.

115B CHADAKOIN SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, low lime soils formed in glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the subsoil and moderately slow to moderate in the lower part of the subsoil and substratum. Soils are Non-Highly Erodible Land.

115C CHADAKOIN SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, low lime soils formed in glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the subsoil and moderately slow to moderate in the lower part of the subsoil and substratum. This soil is Highly Erodible Land.

115D CHADAKOIN SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained, low lime soils formed in glacial till on upland. Available water capacity is moderate. Permeability is moderate in the upper part of the subsoil and moderately slow to moderate in the lower part of the subsoil and substratum. This soil is Highly Erodible Land.

115E CHADAKOIN SILT LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, well drained, low lime soils formed in glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the subsoil and moderately slow to moderate in the lower part of the subsoil and substratum. This soil is Highly Erodible Land.

117A PITTSFIELD LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well drained medium lime, loamy soil with a sandy and gravelly substratum. They formed from calcareous glacial till on glaciated uplands. Available water capacity is moderate. Permeability is moderate or moderately rapid. This soil is considered to be prime farm land.

117B PITTSFIELD LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, medium lime, loamy soil with a sandy and gravelly substratum. This oil formed from calcareous glacial till on glaciated uplands. Available water capacity is moderate. Permeability is moderate or moderately rapid. This soil is considered to be prime farm land.

117C PITTSFIELD LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, medium lime, loamy soil with a sandy and gravelly substratum. This soil formed from calcareous glacial till on glaciated uplands. Available water capacity is moderate. Permeability is moderate or moderately rapid. This oil is Highly Erodible Land.

117D PITTSFIELD LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained, medium lime, loamy soil with a sandy and gravelly substratum. This soil formed from calcareous glacial till on glaciated uplands. Available water capacity is moderate. Permeability is moderate or moderately rapid. This soil is Highly Erodible Land.

117E PITTSFIELD LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, well drained, medium lime, loamy soil with a sandy and gravelly substratum. This soil formed from calcareous glacial till on glaciated uplands. Available water capacity is moderate. Permeability is moderate or moderately rapid. This soil is Highly Erodible Land.

119B PYRITIES LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained soils formed from loamy, calcareous glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the soil and moderately slow or slow in the substratum. This soil is considered to be prime farm land and is Highly Erodible Land.

119C PYRITIES LOAM, 3 TO 15 PERCENT SLOPES Deep, sloping, well drained soils formed from loamy, calcareous glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the soil and moderately slow or slow in the substratum. This soil is Highly Erodible Land.

119D PYRITIES LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained soils formed from loamy, calcareous glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the soil and moderately slow or slow in the substratum. This soil is Highly Erodible Land.

119E PYRITIES LOAM, 25 TO 35 PERCENT SLOPES Deep, steep, well drained soils formed from loamy, calcareous glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the soil and moderately slow or slow in the substratum. This soil is Highly Erodible Land.

120C PYRITIES SOILS, ROLLING, VERY BOULDERY Deep, sloping, well drained, very bouldery soil formed from loamy, calcareous glacial till on uplands. Available water capacity is moderate. Permeability is moderate in the upper part of the soil and moderately slow or slow in the substratum. This soil is HEL.

121B WORTH LOAM, 3 TO 8 PERCENT SLOPES, STONY - Deep, gently sloping, well drained, low lime, stony soil formed in glacial till. It has a very firm fragipan at a depth of 18 to 30 inches. The available water capacity is low. Permeability is slow to moderate. This soil is Non Highly Erodible Land.

121C WORTH LOAM, 8 TO 15 PERCENT SLOPES, STONY - Deep, sloping, well drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of l8 to 30 inches. The available water capacity is low. Permeability is slow to moderate. This soil is Highly Erodible Land.

121D WORTH LOAM, 15 TO 25 PERCENT SLOPES, STONY - Deep, moderately steep, well drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of l8 to 30 inches. The available water capacity is low. Permeability is slow to moderate. This soil is Highly Erodible Land.

121E WORTH LOAM, 25 TO 45% SLOPES Stony - Deep, steep, well drained, low lime, stony loam soils formed in glacial till that may or may not have a fragipan. The available water capacity is low to high. Permeability is moderately rapid to slow. This soil is Highly Erodible Land.

126A LIMA SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, moderately well drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate.

Permeability is moderate to slow. This soil is considered to be prime farm land and is Non Highly Erodible Land.

126B LIMA SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate. Permeability is moderate to slow. This soil is considered to be prime farmland and is Highly Erodible Land.

126C LIMA SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, moderately well drained, high lime, loamy soil formed in glacial till. Available water capacity is moderate. Permeability is moderate to slow. This soil is Highly Erodible Land.

133B EMPEYVILLE LOAM, 3 TO 8 PERCENT SLOPES, STONY Deep, gently sloping, moderately well drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of 14 to 22 inches. The available water capacity is low to moderate. Permeability is moderate to slow. This soil is considered to be prime farm land and is Non Highly Erodible Land.

133C EMPEYVILLE LOAM, 8 TO 15 PERCENT SLOPES, STONY Deep, sloping, moderate well drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of 14 to 22 inches. The available water capacity is low to moderate. Permeability is moderate to slow. This soil is Highly Erodible Land.

136A KENDAIA SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, medium acid, loamy soil, formed in glacial till. The available water capacity is high. Permeability is slow. This soil is considered to be prime farm land and Non Highly Erodible Land. Soil may have Hydric inclusions within the unit.

136B KENDAIA SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping somewhat poorly drained, medium acid, loamy soil, formed in glacial till. The available water capacity is high. Permeability is slow. This soil is considered to be prime farm land and Non Highly Erodible. Soil may have Hydric inclusions within the unit.

144A WESTBURY LOAM, 0 TO 3 PERCENT SLOPES, STONY Deep, nearly level, poorly to somewhat poorly drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of 13 to 24 inches. The available water capacity is low. Permeability is slow. This soil has Hydric inclusions within the mapping unit.

144B WESTBURY LOAM, 3 TO 8 PERCENT SLOPES, STONY Deep, gently sloping, poorly to somewhat poorly drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of 13 to 24 inches. The available water capacity is low. Permeability is slow. This soil has Hydric inclusions within the mapping unit and is Highly Erodible Land.

144C WESTBURY LOAM, 8 TO 15 PERCENT SLOPES, STONY Deep, sloping, poorly to somewhat poorly drained, low lime, stony loam soil formed in glacial till. It has a very firm fragipan at a depth of 13 to 24 inches. The available water capacity is low. Permeability is slow. This soil has Hydric inclusions within the mapping unit and is Highly Erodible Land.

146 LYONS SILT LOAM, Deep, nearly level, poorly drained, medium lime, loamy soil formed in glacial till. The available water capacity is moderate. Permeability is very slow. Lyons soils are Hydric.

150 TUGHILL MUCKY SILT LOAM,STONY Nearly level, low lime, very poorly drained soil formed in depressional areas of glacial till plains. Bedrock may exist at 40 inches or deeper. Permeability is slow or very slow. Tughill soils are Hydric.

151 CHIPPEWA SILT LOAM Nearly level, low lime, poorly drained soil formed in depressional areas of glacial till plains. This soil has a firm horizon (fragipan) appearing at 12 inches or deeper. Permeability is moderate above the fragipan and slow in the fragipan. Available water capacity is moderate to low. Chippewa soils are Hydric.

152B FARMINGTON SILT LOAM, 2 TO 8 PERCENT SLOPES Shallow, nearly level to gently sloping, well drained, medium lime, loamy soil formed in till that is 10 to 20 inches thick over limestone bedrock. The available water capacity is low. Permeability is moderate. These soils are Non-Highly Erodible Land.

153C FARMINGTON-ROCK OUTCROP COMPLEX, 8 TO 15 PERCENT SLOPES Shallow, nearly level to sloping, well drained medium lime, rocky loamy soil formed in till that is 10 to 20 inches thick over limestone bedrock, and 10 to 25% rock outcrop. The available water capacity is low. Permeability is moderate. These soils are Highly Erodible Land.

153D FARMINGTON-ROCK OUTCROP COMPLEX, 15 TO 25 PERCENT SLOPES Shallow, nearly level to sloping, well drained medium lime, rocky loamy soil formed in till that is 10 to 20 inches thick over limestone bedrock, and 10 to 25% rock outcrop. The available water capacity is low. Permeability is moderate. These soils are Highly Erodible Land.

155 DANNEMORA SILT LOAM, STONY Deep , nearly level, poorly drained, low lime soils formed in flat or depression areas of upland glacial till plains. This soil has a fragipan or firm layer at 12 to 20 inches. Permeability is moderate above the fragipan and slow or very slow in the fragipan and substratum. Dannemorra soils are Hydric

156B LAIRDSVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES Moderately deep, gently sloping, well drained to moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over red and green shale bedrock. The available water capacity is moderate, permeability is slow. Soils are Highly Erodible Land.

156C LAIRDSVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES Moderately deep, sloping, well drained to moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over red and green shale bedrock. The available water capacity is moderate. Permeability is slow. Soils are Highly Erodible Land.

156E LAIRDSVILLE SILT LOAM, 25 TO 45 PERCENT SLOPES Moderately deep, steep and very steep, well drained to moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over red and green shale bedrock. Soils are Highly Erodible Land.

162B TOWERVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES This soil is moderately deep, sloping, and moderately well drained. It formed on sideslopes and hilltops of glacial till plains in bedrock controlled landforms. The till is derived primarily from shale and siltstone. Areas of this soil are generally oval or long and narrow in shape and range from 10 to 50 acres in size.

162C TOWERVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES This soil is moderately deep, sloping, and moderately well drained. It formed on sideslopes and hilltops off glacial till plains in bedrock controlled landforms. The till is derived primarily from shale and siltstone.

Areas of this soil are generally oval or long and narrow in shape and range from 10 to 50 acres in size.

162D TOWERVILLE SILT LOAM, 15 TO 25 PERCENT SLOPES This soil is moderately deep, sloping, and moderately well drained. It formed on sideslopes and hilltops off glacial till plains in bedrock controlled landforms. The till is derived primarily from shale and siltstone. Areas of this soil are generally oval or long and narrow in shape and range from l0 to 50 acres in size.

162E TOWERVILLE SILT LOAM, 25 TO 45 PERCENT SLOPES This soil is moderately deep, sloping, and moderately well drained. It formed on sideslopes and hilltops off glacial till plains in bedrock controlled landforms. The till is derived primarily from shale and siltstone. Areas of this soil are generally oval or long and narrow in shape and range from 10 to 50 acres in size.

168B MANLIUS CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES Moderately deep, gently sloping, well drained, low lime, channery loam soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock. The available water capacity is moderate. Permeability is moderate. These soils are Non-Highly Erodible Land.

168C MANLIUS CHANNERY SILT LOAM, 8 TO 15 PERCENT SLOPES Moderately deep, sloping, well drained, low lime, channery loam soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock. The available water capacity is moderate. Permeability is moderate. These soils are Highly Erodible Land.

168D MANLIUS CHANNERY SILT LOAM, 15 TO 25 PERCENT SLOPES Moderately deep, moderately steep, well drained, low lime, channery loam soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock The available water capacity is moderate. Permeability is moderate. These soils are Highly Erodible Land.

168E MANLIUS CHANNERY SILT LOAM, 25 TO 45 PERCENT SLOPES Moderately deep, steep, well drained, low lime, channery loam soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock. Available water capacity is moderate. Permeability is moderate. Soils are Highly Erodible Land.

173B MONGAUP SILT LOAM, 3 TO 8 PERCENT SLOPES Moderately deep, gently sloping, well to moderately well drained, low lime, loamy soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock. Available water capacity is moderate. Permeability is moderate. Soils are Non-Highly Erodible Land.

173C MONGAUP SILT LOAM, 8 TO 15 PERCENT SLOPES Moderately deep, sloping, well to moderately well drained, low lime, loamy soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock. Available water capacity is moderate. Permeability is moderate. These soils are Highly Erodible Land.

173D MONGAUP SILT LOAM, 15 TO 25 PERCENT SLOPES Moderately deep, moderately steep, well to moderately well drained, low lime, loamy soil formed in glacial till that is 20 to 40 inches thick over sandstone and siltstone bedrock. Available water capacity is moderate. Permeability is moderate. These soils are Highly Erodible Land.

173E MONGAUP SILT LOAM, 25 TO 45 PERCENT SLOPES Moderately deep, steep to very steep, well to moderately well drained, low lime, loamy soil formed in glacial till that is 20

to 40 inches thick over sandstone and siltstone bedrock. Available water capacity is moderate. Permeability is moderate. Soils are Highly Erodible Land.

176A NELLIS LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well drained, high lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate.

176B NELLIS LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained, high lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate. These soils are considered to be prime farmland and are Highly Erodible land.

176C NELLIS LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained, high lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate. Soils are Highly Erodible Land.1

176D NELLIS LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, well drained, low to high lime, loamy soils formed in glacial till. The available water capacity is high. Permeability is moderate. Soils are Highly Erodible Land.

195 PALMS MUCK, DRAINED Deep, nearly level, medium to high lime, organic soil formed in till plains and lake plains. Thickness of the organic deposit is 16 to 51 inches over loamy mineral material. Available water capacity is high. Permeability is moderate. This soil is Hydric.

200B BICE FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES, STONY Deep, low lime, undulating, well drained soils on uplands, formed in glacial till. The available water capacity is low to moderate. Permeability is moderate to rapid. These soils are considered to be prime farm land and Non-Highly Erodible Land.

200C BICE FINE SANDY LOAM, 8 TO 15 PERCENT SLOPES, STONY Deep, low lime, rolling, well drained soils on uplands, formed in glacial till. The available water capacity is low to moderate. Permeability is moderate to rapid. Soils are Highly Erodible Land.

200D BICE FINE SANDY LOAM, 15 TO 25 PERCENT SLOPES, STONY Deep, low lime moderately steep, well drained soils on uplands, formed in glacial till. The available water capacity is low to moderate. Permeability is moderate to rapid. Soils are Highly Erodible Land.

200E BICE FINE SANDY LOAM, 25 TO 50 PERCENT SLOPES, STONY Deep, low lime, steep, well drained soil formed in glacial till on uplands. Available water capacity is low to moderate. Permeability is moderate to rapid.

212 ADRIAN MUCK Deep, level to nearly level, very poorly drained, medium high lime organic soil formed in outwash plains and lake plains. The thickness of the organic deposit is 16 to 50 inches over sand. The available water capacity is high. Permeability is moderately rapid. Adrian soils are Hydric.

221B KALURAH SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, medium lime, moderately well drained soils formed in glaciated uplands. Available water capacity is high. Permeability is moderate in the surface layers, moderately slow in the subsoil and slow in the substratum. These soils are considered to be prime farm land.

221C KALURAH SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, medium lime, moderately well drained soils formed on glaciated uplands. Available water capacity is high. Permeability is moderate in the surface layers, moderately slow in the subsoil and slow in the substratum. Soils are Highly Erodible Land.

221D KALURAH SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, medium lime, moderately well drained soils formed on glaciated uplands. Available water capacity is high. Permeability is moderate in the surface layers, moderately slow in the subsoil and slow in the substratum. Soils are Highly Erodible Land.

221E KALURAH SILT LOAM, 25 TO 45 PERCENT SLOPES Deep, steep, medium lime, moderately well drained soils formed on glaciated uplands. Available water capacity is high. Permeability is moderate in the surface layers, moderately slow in the subsoil and slow in the substratum. Soils are Highly Erodible Land.

223A MALONE SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, medium lime, somewhat poorly drained soil formed in glacial till on uplands. Available water capacity is high. Permeability is moderately slow in the subsoil and slow in the substratum. Soils do have Hydric inclusions within mapping unit.

223B MALONE SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, medium lime, somewhat poorly drained soil formed in glacial till on uplands. Available water capacity is high. Permeability is moderately slow in the subsoil and slow in the substratum. Soils do have Hydric inclusions within mapping unit.

223C MALONE SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, moderately steep, medium lime, somewhat poorly drained soil formed in glacial till on uplands. Available water capacity is high. Permeability is moderately slow in the subsoil and slow in the substratum. Soils do have Hydric inclusion within mapping unit soils are Highly Erodible Land.

256D BECKET FINE SANDY LOAM, 15 to 25 PERCENT SLOPES Deep, moderately steep, well drained low lime soils formed in friable to firm glacial till. Permeability is moderate in the solum and moderately slow to slow in the substratum. Available water capacity is low to moderate. Soils are Highly Erodible Land.

260A OVID SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, medium lime, loamy soil formed in reddish glacial till. The available water capacity is high. Permeability is slow. These soils have hydric inclusions within the soil mapping unit.

260B OVID SILT LOAM, 3 to 8 PERCENT SLOPES Deep, gently sloping, somewhat poorly drained, medium lime, loamy soil formed in reddish glacial till. The available water capacity is high. Permeability is slow. These soils have hydric inclusions within the soil mapping unit.

267B GREENE SILT LOAM, 3 TO 8 PERCENT SLOPES Moderately deep, nearly level to gently sloping, somewhat poorly drained, low lime, loamy soil formed in glacial till that is 20 to 40 inches thick over shale over bedrock. The available water capacity is moderate. Permeability is slow. Soils do have Hydric inclusions within soil map unit.

267C GREENE SILT LOAM, 8 TO 15 PERCENT SLOPES Moderately deep, sloping, somewhat poorly drained, low lime loamy soil formed in glacial till that is 20 to 40 inches thick

over shale bedrock. Available water capacity is moderate. Permeability is slow. Soils do have hydric inclusions within soil mapping unit and are Highly Erodible Land.

269 GREEN - TULLER COMPLEX Shallow, low lime, nearly level, poor to somewhat poorly drained soils formed in glacial till 10 to 20 inches in depth over sandstone and shale bedrock on uplands. Available water capacity is moderate. Permeability is moderate in the surface and slow or moderately slow in the subsoil. This complex does have hydric inclusion within mapping unit.

295 CARLISLE MUCK, DRAINED Deep, level and nearly level, high ad medium lime, organic soil formed in till plains and lake plains. The thickness of the organic deposit is greater than 51 inches. Available water capacity is high. Permeability is moderately rapid. This soil is Hydric.

350A ALTON GRAVELLY LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, well drained and somewhat excessively drained, medium lime, gravelly loam soil over sand and gravel formed in glacial outwash. The available water capacity is low to moderate. Permeability is moderate. These soils are considered to be prime farm land.

350B ALTON GRAVELLY LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, well drained and somewhat excessively drained, medium lime, gravelly loam soil over sand and gravel formed in glacial outwash. The available water capacity is low to moderate. Permeability is moderate. These soils are considered to be prime farm land.

350C ALTON GRAVELLY LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, well drained and somewhat excessively drained, medium lime, gravelly loam soil over sand and gravel formed in glacial outwash. The available water capacity is low to moderate. Permeability is moderate. Soils are Highly Erodible Land.

355B ARNOT CHANNERY SILT LOAM, 3 TO 8 PERCENT SLOPES Shallow, nearly level to gently sloping, well drained and moderately well drained, low lime, loamy soil formed in glacial till that is 10 to 20 inches thick over bedrock. The available water capacity is low. Permeability is moderate. Soils are Highly Erodible Land.

372A APPLETON SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate to high. Permeability is moderately slow or slow. These soils have hydric inclusions within the mapping unit.

372B APPLETON SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, somewhat poorly drained, high lime, loamy soil formed in glacial till. The available water capacity is moderate to high. Permeability is moderately slow or slow. These soils have hydric inclusions within the mapping unit.

395 PALMS MUCK Deep, nearly level, very poorly drained, medium to high lime, organic soil formed in till plains and lake plains. Thickness of the organic deposit is 16 to 51 inches over loamy mineral material. The available water capacity is high. Permeability is moderate. Palms soils are Hydric.

397 CATHRO MUCK Deep, very poorly drained soils formed in organic material 16 to 50 inches thick overlying loamy deposits on till plains, outwash plains and lake plains. Permeability is moderately slow to moderately rapid in the organic portion and moderate or moderately slow in the mineral substratum. Available water capacity is high. This soil is Hydric.

398 DAWSON PEAT Deep, nearly level, very poorly drained soils formed in organic material 16 to 50 inches thick overlying sandy deposits on outwash plains lake plains and flood plains. Permeability is moderately slow to moderately rapid in the organic material and rapid in the sandy material. Available water capacity is high. Dawson soil is Hydric.

413B VENANGO SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, low lime, somewhat poorly drained soil. This soil formed in glacial till and has a very firm horizon (or fragipan) beginning at 14 to 28 inches in depth. Available water capacity is moderate. Permeability is moderate in the upper part to very slow in the fragipan. These soils do have hydric inclusions within the mapping unit soils and are Highly Erodible Land.

413C VENANGO SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, low lime, somewhat poorly drained soil. This soil formed in glacial till and has a very firm horizon (or fragipan) beginning at 14 to 28 inches in depth. Available water capacity is moderate. Permeability is moderate in the upper part to very slow in the fragipan. These soils do have hydric inclusions within the
mapping unit. Soils are Highly Erodible Land.

414B MARDIN SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, low lime, moderately well drained channery loam soil formed in glacial till. This soil has a very firm layer (fragipan) at a depth of 14 to 26 inches. Available water capacity is moderate. Permeability is moderate in the upper part to very slow in the fragipan. These soils are Highly Erodible Land.

414C MARDIN SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, low lime, moderately well drained channery loam soil formed in glacial till. This soil has a very firm layer (fragipan) at a depth of 14 to 26 inches. Available water capacity is moderate. Permeability is moderate in the upper part to very slow in the fragipan. These soils are Highly Erodible Land.

414D MARDIN SILT LOAM, 15 TO 25 PERCENT SLOPES Deep, moderately steep, low lime, moderately well drained channery loam soil formed in glacial till. This soil has a very firm layer (fragipan) at a depth of 14 to 26 inches. Available water capacity is moderate. Permeability is moderate in the upper to very slow in the fragipan. These soils are Highly Erodible Land.

461 MARCY SILT LOAM Deep, level or nearly level, very poorly drained to poorly drained, medium to high lime, loamy soil formed in glacial till. The available water capacity is low. Permeability is slow. Marcy soils are considered to be hydric.

462 RUNEBERG LOAM Deep, level or nearly level, poor and very poorly drained, medium to high lime loamy soil formed in glacial till. Permeability is slow or moderately slow. Available water capacity is low. This soil is considered to be hydric.

515A GALWAY SILT LOAM, 0 TO 3 PERCENT SLOPES Moderately deep, nearly level, high lime, well and moderately well drained loamy soil formed in glacial till that is 20 to 40 inches deep over limestone bedrock. Available water capacity is moderate. Permeability is moderate. These soils are considered to be prime farm land.

515B GALWAY SILT LOAM, 3 TO 8 PERCENT SLOPES Moderately deep, sloping, high lime, well and moderately well drained loamy soil formed in glacial till that is 20 to 40 inches deep over limestone bedrock. Available water capacity is moderate. Permeability is moderate.

515C GALWAY SILT LOAM, 8 TO 15 PERCENT SLOPES Moderately deep, moderately steep, high lime, well and moderately well drained loamy soil formed in glacial till that is 20 to 40 inches deep over limestone bedrock. Available water capacity is moderate. Permeability is moderate. These soils are Highly Erodible Land.

565B AURORA SILT LOAM, 3 TO 8 PERCENT SLOPES Moderately deep, nearly level to gently sloping, moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over shale bedrock. The available water capacity is moderate. Permeability is slow. These soils are considered to be prime farm land and Highly Erodible Land.

565C AURORA SILT LOAM, 8 TO 15 PERCENT SLOPES Moderately deep, sloping, moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over shale bedrock. Available water capacity is moderate. Permeability is slow. These soils are Highly Erodible Land.

565D AURORA SILT LOAM, 15 TO 25 PERCENT SLOPES Moderately deep, sloping to moderately steep, moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over shale bedrock. The available water capacity is moderate. Permeability is slow. These soils are Highly Erodible Land.

565E AURORA SILT LOAM, 25 TO 35 PERCENT SLOPES Moderately deep, steep, moderately well drained, medium lime, loamy soil formed in glacial till that is 20 to 40 inches thick over shale bedrock. Available water capacity is moderate. Permeability is slow. These soils are Highly Erodible Land.

582A AMENIA SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, moderately well drained, high lime, stony loam soil formed in glacial till. The available water capacity is high. Permeability is medium to slow. These soils are considered to be prime farm land.

582B AMENIA SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, high lime, stony loam soil formed in glacial till. The available water capacity is high. Permeability is medium to slow. These soils are considered to be prime farm land and are Highly Erodible Land.

747A DARIEN SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, medium lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate to slow. These soils have hydric inclusions within the soil mapping unit.

747B DARIEN SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, nearly level, somewhat poorly drained, medium lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate to slow. These soils have hydric inclusions within the soil mapping unit.

747C DARIEN SILT LOAM, 8 TO 15 PERCENT SLOPES, Deep sloping, somewhat poorly drained, medium lime, loamy soil formed in glacial till. The available water capacity is high. Permeability is moderate to slow. These soils have hydric inclusions within the soil mapping unit and are Highly Erodible Land.

747D DARIEN SILT LOAM, 15 TO 25 PERCENT SLOPES, Deep moderately steep, somewhat poorly drained, medium lime, loamy soil formed in glacial till. Available water capacity is high. Permeability is moderate to slow. These soils have hydric inclusions within the soil mapping unit and are Highly Erodible Land.

750B MINOA FINE SANDY LOAM, 0 TO 6 PERCENT SLOPES, Deep, nearly level to gently sloping, somewhat poorly drained, medium lime, loamy soil over loamy very fine sand formed in lacustrine deposits. The available water capacity is moderate.
Permeability is moderate. These soils have hydric inclusions within the soil mapping unit.

790A CONESUS SILT LOAM, 0 TO 3 PERCENT SLOPES Deep, nearly level, moderately well drained, medium lime, loamy soil formed in glacial till. Available water capacity is high. Permeability is moderate in the upper part and slow to very slow in the substratum. These soils are considered to be prime farm land.

790B CONESUS SILT LOAM, 3 TO 8 PERCENT SLOPES Deep, gently sloping, moderately well drained, medium lime, loamy soil formed in glacial till. Available water capacity is high. Permeability is moderate in the upper part and slow to very slow in the substratum.

790C CONESUS SILT LOAM, 8 TO 15 PERCENT SLOPES Deep, sloping, moderately well drained, medium lime, loamy soil formed in glacial till. Available water capacity is high. Permeability is moderate in the upper part and slow to very slow in the substratum.

982 WALLKILL SILT LOAM Deep, nearly level, very poorly drained, medium lime, loamy soil formed in alluvium overlying organic material. The organic layer is at least 20 inches thick. The available water capacity is moderate. Permeability is moderate. Wallkill soils are considered to be hydric