

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
1A	Fluvaquents-Udifluvents complex, 0 to 3 percent slopes, frequently flooded	Very limited	Fluvaquents, frequently flooded 45% Flooding Depth to saturated zone Udifluvents, frequently flooded 40% Flooding Depth to saturated zone Cobble content Wayland 10% Flooding Depth to saturated zone Slow water movement Naples Creek 5% Depth to saturated zone Slow water movement Flooding
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Very limited	Geneseo 90% Slow water movement Depth to saturated zone Flooding Naples Creek 10% Depth to saturated zone Slow water movement Flooding
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Very limited	Hemlock 90% Slow water movement Depth to saturated zone Flooding Naples Creek 10% Depth to saturated zone Slow water movement Flooding
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Very limited	Naples Creek 90% Depth to saturated zone Slow water movement Flooding Wayland 5% Flooding Depth to saturated zone Slow water movement Hemlock 5% Slow water movement Depth to saturated zone Flooding
5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Flooding Depth to saturated zone Slow water movement Wayland, very poorly drained 30% Ponding Flooding Depth to saturated zone Slow water movement Wakeville 10% Depth to saturated zone Slow water movement Flooding

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12D	Rockrift channery silt loam, 15 to 25 percent slopes	Very limited	Rockrift 85% Slope Slow water movement Cobble content Too acid Mongaup, very stony 10% Slope Slow water movement Depth to bedrock Cobble content Willdin 5% Slope Slow water movement Depth to saturated zone Cobble content
13F	Rock outcrop-Arnot complex, 25 to 70 percent slopes	Not rated	Rock outcrop 55%
14D	Cadosia channery silt loam, 15 to 25 percent slopes	Very limited	Cadosia 85% Slope Slow water movement Cobble content Too acid Lordstown, very stony 10% Slope Slow water movement Depth to bedrock Mardin 5% Slope Slow water movement Depth to saturated zone
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Very limited	Guyanoga, fan 90% Depth to saturated zone Slow water movement Cobble content Chenango, fan 5% Depth to saturated zone Slow water movement Hemlock 5% Slow water movement Depth to saturated zone Flooding
15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Very limited	Guyanoga, fan 90% Depth to saturated zone Slow water movement Cobble content Slope Hemlock 5% Slow water movement Depth to saturated zone Flooding Chenango, fan 5% Depth to saturated zone Slow water movement Slope

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16A	Almond channery silt loam, 0 to 3 percent slopes	Very limited	Almond 80% Slow water movement Depth to saturated zone Norchip 8% Slow water movement Depth to saturated zone Ontusia 7% Slow water movement Depth to saturated zone Gretor 5% Slow water movement Depth to saturated zone Depth to bedrock Slope Cobble content
16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Slow water movement Depth to saturated zone Slope Gretor 5% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Salamanca 5% Slope Slow water movement Depth to saturated zone Cobble content Ontusia 5% Slow water movement Depth to saturated zone Slope Norchip 5% Slow water movement Depth to saturated zone
16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Slope Slow water movement Depth to saturated zone Salamanca 5% Slope Slow water movement Depth to saturated zone Cobble content Norchip 5% Slow water movement Depth to saturated zone Ontusia 5% Slope Slow water movement Depth to saturated zone Gretor 5% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content

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18A	Homer fine sandy loam, 0 to 3 percent slopes	Very limited	Homer 90% Depth to saturated zone Slow water movement Phelps 5% Depth to saturated zone Slow water movement Fine-loamy, mixed, active, mesic Typic Argiaquolls 5% Depth to saturated zone Slow water movement
19A	Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Fine-loamy, mixed, active, mesic Typic Argiaquolls 80% Ponding Depth to saturated zone Slow water movement Homer 8% Depth to saturated zone Slow water movement Atherton 7% Depth to saturated zone Slow water movement Palms, undrained 5% Ponding Slow water movement Depth to saturated zone
20A	Atherton and Fine-loamy, mixed, active, mesic, Typic Argiaquolls, 0 to 3 percent slopes	Very limited	Atherton 41% Depth to saturated zone Slow water movement Fine-loamy, mixed, active, mesic Typic Argiaquolls 39% Ponding Depth to saturated zone Slow water movement Homer 8% Depth to saturated zone Slow water movement Canandaigua 7% Slow water movement Depth to saturated zone Castile 5% Depth to saturated zone Slow water movement
24A	Howard gravelly loam, 0 to 3 percent slopes	Somewhat limited	Howard 80% Slow water movement Arkport 5% Slow water movement
24B	Howard gravelly loam, 3 to 8 percent slopes	Somewhat limited	Howard 80% Slow water movement Slope Arkport 5% Slope Slow water movement

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24C	Howard gravelly loam, 8 to 15 percent slopes	Very limited	Howard 80% Slope Slow water movement Palmyra 10% Slope Slow water movement Cobble content Arkport 5% Slope Slow water movement Phelps 5% Depth to saturated zone Slow water movement Slope
24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Slow water movement Palmyra 20% Slope Slow water movement Cobble content Arkport 13% Slope Slow water movement Phelps 2% Depth to saturated zone Slow water movement Slope
25A	Chenango gravelly loam, 0 to 3 percent slopes	Somewhat limited	Chenango 90% Slow water movement
25B	Chenango gravelly loam, 3 to 8 percent slopes	Somewhat limited	Chenango 90% Slow water movement Slope
25C	Chenango gravelly loam, 8 to 15 percent slopes	Very limited	Chenango 90% Slope Slow water movement Castile 5% Slope Depth to saturated zone Slow water movement Valois 5% Slope Slow water movement
25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Slope Slow water movement Castile 8% Slope Depth to saturated zone Slow water movement Valois 2% Slope Slow water movement
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Slope Slow water movement Valois 10% Slope Slow water movement

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26B	Chenango channery loam, fan, 3 to 8 percent slopes	Very limited	Chenango, fan 85% Depth to saturated zone Slow water movement Slope Guyanoga, fan 5% Depth to saturated zone Slow water movement Cobble content Slope Castile 5% Depth to saturated zone Slow water movement Slope Hemlock 5% Slow water movement Depth to saturated zone Flooding
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Very limited	Castile 85% Depth to saturated zone Slow water movement Slope Phelps 5% Depth to saturated zone Slow water movement Slope Homer 5% Depth to saturated zone Slow water movement
31A	Collamer silt loam, 0 to 3 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slow water movement Niagara 10% Depth to saturated zone Slow water movement Schoharie 5% Slow water movement Depth to saturated zone
31B	Collamer silt loam, 3 to 8 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slow water movement Slope Niagara 10% Depth to saturated zone Slow water movement Slope Schoharie 5% Slow water movement Depth to saturated zone Slope
31C	Collamer silt loam, 8 to 15 percent slopes	Very limited	Collamer 85% Slope Depth to saturated zone Slow water movement Niagara 10% Depth to saturated zone Slow water movement Slope Schoharie 5% Slope Slow water movement Depth to saturated zone

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31D	Collamer silt loam, 15 to 25 percent slopes	Very limited	Collamer 90% Slope Depth to saturated zone Slow water movement Schoharie 5% Slope Slow water movement Depth to saturated zone Niagara 5% Slope Depth to saturated zone Slow water movement
32A	Dunkirk fine sandy loam, 0 to 3 percent slopes	Very limited	Dunkirk 90% Slow water movement Schoharie 3% Slow water movement Depth to saturated zone Niagara 3% Depth to saturated zone Slow water movement
32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Slow water movement Slope Schoharie 3% Slow water movement Depth to saturated zone Slope Niagara 3% Depth to saturated zone Slow water movement Slope
33A	Dunkirk silt loam, 0 to 3 percent slopes	Very limited	Dunkirk 90% Slow water movement Niagara 3% Depth to saturated zone Slow water movement Schoharie 3% Slow water movement Depth to saturated zone
33B	Dunkirk silt loam, 3 to 8 percent slopes	Very limited	Dunkirk 90% Slow water movement Slope Schoharie 3% Slow water movement Depth to saturated zone Slope Niagara 3% Depth to saturated zone Slow water movement Slope

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33C	Dunkirk silt loam, 8 to 15 percent slopes	Very limited	Dunkirk 90% Slope Slow water movement Arkport 4% Slope Slow water movement Schoharie 3% Slope Slow water movement Depth to saturated zone Niagara 3% Depth to saturated zone Slow water movement Slope
33D	Dunkirk silt loam, 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Slow water movement Schoharie 5% Slope Slow water movement Depth to saturated zone Arkport 5% Slope Slow water movement
33E	Dunkirk silt loam, 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Slow water movement Schoharie 5% Slope Slow water movement Depth to saturated zone Arkport 5% Slope Slow water movement
34A	Lakemont silty clay loam, 0 to 3 percent slopes	Very limited	Lakemont 85% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Fonda 4% Ponding Slow water movement Depth to saturated zone Canandaigua 4% Slow water movement Depth to saturated zone Barre 2% Slow water movement Depth to saturated zone

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35A	Odessa silt loam, 0 to 3 percent slopes	Very limited	Odessa 85% Slow water movement Depth to saturated zone Lakemont 5% Slow water movement Depth to saturated zone Schoharie 5% Slow water movement Depth to saturated zone Churchville 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Rhinebeck 2% Slow water movement Depth to saturated zone
35B	Odessa silty clay loam, 3 to 8 percent slopes	Very limited	Odessa 85% Slow water movement Depth to saturated zone Slope Schoharie 6% Slow water movement Depth to saturated zone Slope Lakemont 4% Slow water movement Depth to saturated zone Churchville 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Rhinebeck 2% Slow water movement Depth to saturated zone Slope
36A	Schoharie silty clay loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Cazenovia 5% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Cayuga 3% Slow water movement Depth to saturated zone Collamer 2% Slow water movement Depth to saturated zone

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36B	Schoharie silty clay loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Slope Cazenovia 5% Slow water movement Depth to saturated zone Slope Odessa 5% Slow water movement Depth to saturated zone Slope Cayuga 3% Slow water movement Depth to saturated zone Slope Collamer 2% Slow water movement Depth to saturated zone Slope
36C	Schoharie silty clay loam, 8 to 15 percent slopes	Very limited	Schoharie 85% Slope Slow water movement Depth to saturated zone Cazenovia 5% Slope Slow water movement Depth to saturated zone Odessa 5% Slope Slow water movement Depth to saturated zone Cayuga 3% Slope Slow water movement Depth to saturated zone Collamer 2% Slope Slow water movement Depth to saturated zone
36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 85% Slope Slow water movement Depth to saturated zone Cazenovia 5% Slope Slow water movement Depth to saturated zone Odessa 5% Slope Slow water movement Depth to saturated zone Cayuga 3% Slope Slow water movement Depth to saturated zone Collamer 2% Slope Slow water movement Depth to saturated zone

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36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 85% Slope Slow water movement Depth to saturated zone Odessa 5% Slope Slow water movement Depth to saturated zone Cazenovia 5% Slope Slow water movement Depth to saturated zone Cayuga 3% Slope Slow water movement Depth to saturated zone Collamer 2% Slope Slow water movement Depth to saturated zone
37A	Schoharie silt loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Cazenovia 5% Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Cayuga 3% Slow water movement Depth to saturated zone Collamer 2% Slow water movement Depth to saturated zone
37B	Schoharie silt loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Slope Cazenovia 5% Slow water movement Depth to saturated zone Slope Odessa 5% Slow water movement Depth to saturated zone Slope Cayuga 3% Slow water movement Depth to saturated zone Slope Collamer 2% Slow water movement Depth to saturated zone Slope

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38A	Niagara silt loam, 0 to 3 percent slopes	Very limited	Niagara 85% Depth to saturated zone Slow water movement Canandaigua 5% Slow water movement Depth to saturated zone Rhinebeck 5% Slow water movement Depth to saturated zone Collamer 5% Depth to saturated zone Slow water movement
38B	Niagara silt loam, 3 to 8 percent slopes	Very limited	Niagara 85% Depth to saturated zone Slow water movement Slope Canandaigua 5% Slow water movement Depth to saturated zone Slope Rhinebeck 5% Slow water movement Depth to saturated zone Slope Collamer 5% Depth to saturated zone Slow water movement Slope
39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Very limited	Rhinebeck 90% Slow water movement Depth to saturated zone Lakemont 5% Slow water movement Depth to saturated zone Niagara 5% Depth to saturated zone Slow water movement
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Slow water movement Depth to saturated zone Aeric Epiaquepts 45% Slow water movement Depth to saturated zone Elnora 5% Depth to saturated zone Slow water movement
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Slow water movement Depth to saturated zone Canandaigua 4% Ponding Slow water movement Depth to saturated zone Lakemont 3% Slow water movement Depth to saturated zone Niagara 3% Depth to saturated zone Slow water movement

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44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Ponding Slow water movement Depth to saturated zone Canandaigua 5% Slow water movement Depth to saturated zone Lakemont 3% Slow water movement Depth to saturated zone Palms, undrained 2% Ponding Slow water movement Depth to saturated zone
45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Ponding Slow water movement Depth to saturated zone Canandaigua 3% Ponding Slow water movement Depth to saturated zone Palms, undrained 2% Ponding Slow water movement Depth to saturated zone
46A	Galen fine sandy loam, 0 to 3 percent slopes	Very limited	Galen 90% Depth to saturated zone Slow water movement Aeric Epiaquepts 5% Slow water movement Depth to saturated zone Kendaia 5% Slow water movement Depth to saturated zone Seepage, porous bedrock
46B	Galen fine sandy loam, 3 to 8 percent slopes	Very limited	Galen 90% Depth to saturated zone Slow water movement Slope Kendaia 5% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Aeric Epiaquepts 5% Slow water movement Depth to saturated zone
48A	Arkport fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Arkport 95% Slow water movement
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Slow water movement Slope

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48C	Arkport fine sandy loam, 8 to 15 percent slopes	Very limited	Arkport 95% Slope Slow water movement Dunkirk 3% Slope Slow water movement Galen 2% Depth to saturated zone Slope Slow water movement
48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Slow water movement Dunkirk 8% Slope Slow water movement Palmyra 2% Slope Slow water movement
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Slow water movement Slope
49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Slow water movement Dunkirk 3% Slope Slow water movement Palmyra 2% Slope Slow water movement
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Slow water movement Dunkirk 8% Slope Slow water movement Palmyra 2% Slope Slow water movement
49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Slow water movement Dunkirk 8% Slope Slow water movement Palmyra 2% Slope Slow water movement
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Very limited	Dunkirk 50% Slow water movement Slope Collamer 5% Depth to saturated zone Slow water movement Slope

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50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Very limited	Dunkirk 60% Slope Slow water movement Arkport 35% Slope Slow water movement Collamer 5% Slope Depth to saturated zone Slow water movement
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Slow water movement Arkport 35% Slope Slow water movement Collamer 5% Slope Depth to saturated zone Slow water movement
53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Slow water movement Lamson 5% Ponding Depth to saturated zone Slow water movement Canandaigua 3% Slow water movement Depth to saturated zone Galen 2% Depth to saturated zone Slow water movement
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Ponding Depth to saturated zone Slow water movement Canandaigua 5% Slow water movement Depth to saturated zone Lamson 5% Depth to saturated zone Slow water movement
56A	Elnora loamy fine sand, 0 to 3 percent slopes	Very limited	Elnora 90% Depth to saturated zone Slow water movement Aeric Epiaquepts 10% Slow water movement Depth to saturated zone
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Colonie 95% Slope
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Very limited	Colonie 95% Slope Elnora 5% Depth to saturated zone Slope Slow water movement

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Survey Area Version and Date: 23 - 09/05/2023

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62B	Mardin channery silt loam, 3 to 8 percent slopes	Very limited	Mardin 85% Slow water movement Depth to saturated zone Slope Too acid Cobble content Lordstown 5% Slow water movement Depth to bedrock Slope Cobble content Bath 5% Slope Slow water movement Depth to saturated zone Cobble content Volusia 5% Slow water movement Depth to saturated zone
62C	Mardin channery silt loam, 8 to 15 percent slopes	Very limited	Mardin 88% Slope Slow water movement Depth to saturated zone Too acid Cobble content Bath 5% Slope Slow water movement Depth to saturated zone Cobble content Volusia 5% Slow water movement Depth to saturated zone Slope Lordstown 2% Slope Slow water movement Depth to bedrock Cobble content
62D	Mardin channery silt loam, 15 to 25 percent slopes	Very limited	Mardin 85% Slope Slow water movement Depth to saturated zone Too acid Cobble content Lordstown 5% Slope Slow water movement Depth to bedrock Cobble content Volusia 5% Slope Slow water movement Depth to saturated zone Bath 5% Slope Slow water movement Depth to saturated zone Cobble content

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Survey Area Version and Date: 23 - 09/05/2023

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62E	Mardin channery silt loam, 25 to 35 percent slopes	Very limited	Mardin 80% Slope Slow water movement Depth to saturated zone Too acid Bath 8% Slope Slow water movement Depth to saturated zone Cobble content Lordstown, very stony 7% Slope Slow water movement Depth to bedrock Stone content Cobble content Volusia 5% Slope Slow water movement Depth to saturated zone
63B	Langford channery silt loam, 3 to 8 percent slopes	Very limited	Langford 85% Slow water movement Depth to saturated zone Slope Erie 10% Slow water movement Depth to saturated zone Schuyler 5% Slow water movement Depth to saturated zone Slope Cobble content
63C	Langford channery silt loam, 8 to 15 percent slopes	Very limited	Langford 85% Slope Slow water movement Depth to saturated zone Chadakoin 5% Slope Slow water movement Erie 5% Slow water movement Depth to saturated zone Slope Schuyler 5% Slope Slow water movement Depth to saturated zone Cobble content

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Survey Area Version and Date: 23 - 09/05/2023

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63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 80% Slope Slow water movement Depth to saturated zone Erie 5% Slope Slow water movement Depth to saturated zone Schuyler 5% Slope Slow water movement Depth to saturated zone Cobble content Towerville 5% Slope Slow water movement Depth to saturated zone Depth to bedrock Chadakoin 5% Slope Slow water movement
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Langford 50% Slow water movement Depth to saturated zone Slope Erie 40% Slow water movement Depth to saturated zone Slope Chippewa 5% Slow water movement Depth to saturated zone Fremont 5% Slow water movement Depth to saturated zone Slope

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66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Slow water movement Depth to saturated zone Seepage, porous bedrock Lyons, frequently ponded 15% Ponding Slow water movement Depth to saturated zone Seepage, porous bedrock Appleton 3% Slow water movement Depth to saturated zone Canandaigua 3% Slow water movement Depth to saturated zone Kendaia 2% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Palms, undrained 1% Ponding Depth to saturated zone Slow water movement Ilion 1% Slow water movement Depth to saturated zone
68A	Volusia channery silt loam, 0 to 3 percent slopes	Very limited	Volusia 90% Slow water movement Depth to saturated zone Chippewa 5% Slow water movement Depth to saturated zone Mardin 5% Slow water movement Depth to saturated zone Slope Too acid Cobble content
68B	Volusia channery silt loam, 3 to 8 percent slopes	Very limited	Volusia 90% Slow water movement Depth to saturated zone Slope Chippewa 5% Slow water movement Depth to saturated zone Mardin 5% Slope Slow water movement Depth to saturated zone Too acid Cobble content

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68C	Volusia channery silt loam, 8 to 15 percent slopes	Very limited	Volusia 90% Slope Slow water movement Depth to saturated zone Mardin 6% Slope Slow water movement Depth to saturated zone Too acid Cobble content Chippewa 4% Slow water movement Depth to saturated zone Slope
68D	Volusia channery silt loam, 15 to 25 percent slopes	Very limited	Volusia 90% Slope Slow water movement Depth to saturated zone Mardin 7% Slope Slow water movement Depth to saturated zone Too acid Cobble content Chippewa 3% Slow water movement Depth to saturated zone Slope
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 80% Slow water movement Depth to saturated zone Chippewa 10% Slow water movement Depth to saturated zone Fremont 5% Slow water movement Depth to saturated zone Slope Langford 5% Slow water movement Depth to saturated zone Slope
69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 80% Slow water movement Depth to saturated zone Slope Langford 10% Slope Slow water movement Depth to saturated zone Chippewa 5% Slow water movement Depth to saturated zone Fremont 5% Slow water movement Depth to saturated zone Slope

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69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 80% Slope Slow water movement Depth to saturated zone Langford 10% Slope Slow water movement Depth to saturated zone Fremont 5% Slope Slow water movement Depth to saturated zone Chippewa 5% Slow water movement Depth to saturated zone
71A	Darien silt loam, 0 to 3 percent slopes	Very limited	Darien 95% Slow water movement Depth to saturated zone Ilion 4% Slow water movement Depth to saturated zone Angola 1% Slow water movement Depth to saturated zone Depth to bedrock
71B	Darien silt loam, 3 to 8 percent slopes	Very limited	Darien 95% Slow water movement Depth to saturated zone Slope Ilion 4% Slow water movement Depth to saturated zone Slope Angola 1% Slow water movement Depth to saturated zone Depth to bedrock Slope
71C	Darien silt loam, 8 to 15 percent slopes	Very limited	Darien 95% Slope Slow water movement Depth to saturated zone Ilion 4% Slow water movement Depth to saturated zone Slope Angola 1% Slope Slow water movement Depth to saturated zone Depth to bedrock
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Very limited	Darien 68% Slow water movement Depth to saturated zone Ilion 27% Slow water movement Depth to saturated zone Angola 5% Slow water movement Depth to saturated zone Depth to bedrock

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Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Slow water movement Depth to saturated zone Slope Ilion 27% Slow water movement Depth to saturated zone Slope Angola 5% Slow water movement Depth to saturated zone Depth to bedrock Slope
73B	Greter silt loam, 3 to 8 percent slopes	Very limited	Greter 95% Slow water movement Depth to saturated zone Depth to bedrock Slope Greter, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Slope
73C	Greter silt loam, 8 to 15 percent slopes	Very limited	Greter 95% Slope Slow water movement Depth to saturated zone Depth to bedrock Greter, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Slope
73D	Greter channery silt loam, 15 to 25 percent slopes	Very limited	Greter 90% Slope Slow water movement Depth to saturated zone Depth to bedrock Mongaup, very stony 8% Slope Slow water movement Depth to bedrock Cobble content Greter, poorly drained 2% Slow water movement Depth to saturated zone Depth to bedrock Slope
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Slow water movement Depth to saturated zone Depth to bedrock Slope Orpark, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
76C	Orpark silt loam, 8 to 15 percent slopes	Very limited	Orpark 95% Slope Slow water movement Depth to saturated zone Depth to bedrock Orpark, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Slope
76D	Orpark channery silt loam, 15 to 25 percent slopes	Very limited	Orpark 90% Slope Slow water movement Depth to saturated zone Depth to bedrock Orpark, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock Slope Lordstown, very stony 5% Slope Slow water movement Depth to bedrock
77A	Chippewa silt loam, 0 to 3 percent slopes	Very limited	Chippewa 85% Slow water movement Depth to saturated zone Chippewa, very poorly drained 10% Ponding Slow water movement Depth to saturated zone Volusia 5% Slow water movement Depth to saturated zone Slope
77B	Chippewa silt loam, 3 to 8 percent slopes	Very limited	Chippewa 85% Slow water movement Depth to saturated zone Slope Volusia 10% Slope Slow water movement Depth to saturated zone Chippewa, very poorly drained 5% Ponding Slow water movement Depth to saturated zone
82B	Manlius channery silt loam, 3 to 8 percent slopes	Very limited	Manlius 95% Slow water movement Depth to bedrock Cobble content Slope Too acid Gretor 5% Slow water movement Depth to saturated zone Depth to bedrock Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
82C	Manlius channery silt loam, 8 to 15 percent slopes	Very limited	Manlius 95% Slope Slow water movement Depth to bedrock Cobble content Too acid Gretor 5% Slope Slow water movement Depth to saturated zone Depth to bedrock
82D	Manlius channery silt loam, 15 to 25 percent slopes	Very limited	Manlius 95% Slope Slow water movement Depth to bedrock Cobble content Too acid Arnot, very stony 4% Slope Slow water movement Depth to bedrock Cobble content Gretor 1% Slope Slow water movement Depth to saturated zone Depth to bedrock
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Ponding Slow water movement Depth to saturated zone Palms, drained 40% Slow water movement Depth to saturated zone Canandaigua 5% Ponding Slow water movement Depth to saturated zone
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Ponding Depth to saturated zone Slow water movement Carlisle, drained 40% Depth to saturated zone Slow water movement Palms, undrained 10% Ponding Slow water movement Depth to saturated zone Canandaigua 5% Ponding Slow water movement Depth to saturated zone

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
93A	Edwards muck, 0 to 3 percent slopes	Very limited	Edwards, undrained 50% Ponding Slow water movement Depth to saturated zone Edwards, drained 35% Slow water movement Depth to saturated zone Martisco, undrained 10% Ponding Slow water movement Depth to saturated zone Canandaigua 5% Ponding Slow water movement Depth to saturated zone
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Ponding Slow water movement Depth to saturated zone Martisco, drained 35% Slow water movement Depth to saturated zone Canandaigua 5% Ponding Slow water movement Depth to saturated zone Palms, drained 5% Slow water movement Depth to saturated zone
95A	Saprists, 0 to 3 percent slopes, inundated	Very limited	Saprists, inundated 85% Ponding Depth to saturated zone Slow water movement Palms, undrained 5% Ponding Slow water movement Depth to saturated zone Fluvaquents, frequently flooded 5% Flooding Depth to saturated zone Carlisle, undrained 5% Ponding Depth to saturated zone Slow water movement
101A	Honeoye loam, 0 to 3 percent slopes	Very limited	Honeoye 85% Slow water movement Seepage, porous bedrock Lima 5% Slow water movement Depth to saturated zone Seepage, porous bedrock Lansing 4% Slow water movement Seepage, porous bedrock Kendaia 4% Slow water movement Depth to saturated zone Seepage, porous bedrock Wassaic 2% Depth to bedrock Slow water movement

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101B	Honeoye loam, 3 to 8 percent slopes	Very limited	Honeoye 85% Slow water movement Slope Seepage, porous bedrock Lima 5% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Kendaia 4% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Lansing 4% Slow water movement Slope Seepage, porous bedrock Wassaic 2% Depth to bedrock Slow water movement Slope
101C	Honeoye loam, 8 to 15 percent slopes	Very limited	Honeoye 85% Slope Slow water movement Seepage, porous bedrock Lima 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Lansing 4% Slope Slow water movement Seepage, porous bedrock Kendaia 4% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Wassaic 2% Slope Depth to bedrock Slow water movement

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Slow water movement Seepage, porous bedrock Lima 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Lansing 4% Slope Slow water movement Seepage, porous bedrock Kendaia 4% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Wassaic 2% Slope Depth to bedrock Slow water movement
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Slow water movement Seepage, porous bedrock Lima 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Kendaia 4% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Lansing 4% Slope Slow water movement Seepage, porous bedrock Wassaic 2% Slope Depth to bedrock Slow water movement
104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Very limited	Honeoye, lower clay surface 85% Slow water movement Seepage, porous bedrock Lima 5% Slow water movement Depth to saturated zone Seepage, porous bedrock Lansing 4% Slow water movement Seepage, porous bedrock Kendaia 4% Slow water movement Depth to saturated zone Seepage, porous bedrock Wassaic 2% Depth to bedrock Slow water movement

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Very limited	Honeoye, lower clay surface 85% Slow water movement Slope Seepage, porous bedrock Lima 5% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Lansing 4% Slow water movement Slope Seepage, porous bedrock Kendaia 4% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Wassaic 2% Depth to bedrock Slow water movement Slope
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Very limited	Honeoye, lower clay surface 85% Slope Slow water movement Seepage, porous bedrock Lima 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Kendaia 4% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Lansing 4% Slope Slow water movement Seepage, porous bedrock Wassaic 2% Slope Depth to bedrock Slow water movement

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
106B	Danley-Lansing complex, 3 to 8 percent slopes	Very limited	Danley 50% Slow water movement Depth to saturated zone Slope Lansing 45% Slow water movement Seepage, porous bedrock Slope Conesus 2% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Kendaia 1% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Palatine 1% Slow water movement Depth to bedrock Slope Appleton 1% Slow water movement Depth to saturated zone Slope
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Very limited	Conesus 50% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Lansing 45% Slow water movement Seepage, porous bedrock Slope Kendaia 2% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Appleton 1% Slow water movement Depth to saturated zone Slope Danley 1% Slow water movement Depth to saturated zone Slope Palatine 1% Slow water movement Depth to bedrock Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108C	Lansing loam, 8 to 15 percent slopes	Very limited	Lansing 85% Slope Slow water movement Seepage, porous bedrock Conesus 8% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Kendaia 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Appleton 2% Slope Slow water movement Depth to saturated zone Danley 1% Slope Slow water movement Depth to saturated zone Wassaic 1% Slope Depth to bedrock Slow water movement
108D	Lansing loam, 15 to 25 percent slopes	Very limited	Lansing 85% Slope Slow water movement Seepage, porous bedrock Conesus 9% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Wassaic 3% Slope Depth to bedrock Slow water movement Kendaia 2% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Appleton 1% Slow water movement Depth to saturated zone Slope
108E	Lansing loam, 25 to 35 percent slopes	Very limited	Lansing 85% Slope Slow water movement Seepage, porous bedrock Cazenovia 10% Slope Slow water movement Depth to saturated zone Aurora 5% Slope Slow water movement Depth to saturated zone Depth to bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112B	Ontario fine sandy loam, 3 to 8 percent slopes	Very limited	Ontario 85% Slow water movement Seepage, porous bedrock Slope Honeoye 5% Slow water movement Seepage, porous bedrock Slope Hilton 5% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Cazenovia 3% Slow water movement Depth to saturated zone Slope Appleton 2% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope
112C	Ontario fine sandy loam, 8 to 15 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Honeoye 5% Slope Slow water movement Seepage, porous bedrock Hilton 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Cazenovia 3% Slope Slow water movement Depth to saturated zone Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112D	Ontario fine sandy loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Cazenovia 5% Slope Slow water movement Depth to saturated zone Honeoye 5% Slope Slow water movement Seepage, porous bedrock Hilton 3% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Cazenovia 5% Slope Slow water movement Depth to saturated zone Honeoye 5% Slope Slow water movement Seepage, porous bedrock Hilton 3% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
114B	Ontario gravelly loam, 3 to 8 percent slopes	Very limited	Ontario 85% Slow water movement Slope Seepage, porous bedrock Hilton 5% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Honeoye 5% Slow water movement Slope Seepage, porous bedrock Cazenovia 3% Slow water movement Depth to saturated zone Slope Appleton 2% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock
114C	Ontario gravelly loam, 8 to 15 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Hilton 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Honeoye 5% Slope Slow water movement Seepage, porous bedrock Cazenovia 3% Slope Slow water movement Depth to saturated zone Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
114D	Ontario gravelly loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Honeoye 5% Slope Slow water movement Seepage, porous bedrock Hilton 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Cazenovia 3% Slope Slow water movement Depth to saturated zone Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock
116B	Ontario loam, 3 to 8 percent slopes	Very limited	Ontario 85% Slow water movement Slope Seepage, porous bedrock Honeoye 5% Slow water movement Slope Seepage, porous bedrock Hilton 5% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock Cazenovia 3% Slow water movement Depth to saturated zone Slope Appleton 2% Slow water movement Depth to saturated zone Slope Seepage, porous bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
116C	Ontario loam, 8 to 15 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Honeoye 5% Slope Slow water movement Seepage, porous bedrock Hilton 5% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Cazenovia 3% Slope Slow water movement Depth to saturated zone Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock
116D	Ontario loam, 15 to 25 percent slopes	Very limited	Ontario 85% Slope Slow water movement Seepage, porous bedrock Cazenovia 5% Slope Slow water movement Depth to saturated zone Honeoye 5% Slope Slow water movement Seepage, porous bedrock Hilton 3% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Appleton 2% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Slope Slow water movement Seepage, porous bedrock Honeoye 35% Slope Slow water movement Seepage, porous bedrock Lansing 20% Slope Slow water movement Seepage, porous bedrock Aurora 5% Slope Slow water movement Depth to saturated zone Depth to bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Slow water movement Cobble content Howard 40% Slope Slow water movement Colonie 5% Slope
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Slow water movement Honeoye, lower clay surface 5% Slow water movement Seepage, porous bedrock
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Slow water movement Slope Honeoye, lower clay surface 5% Slow water movement Slope Seepage, porous bedrock
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Slow water movement
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Slow water movement Slope
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Slow water movement Cobble content
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Slow water movement Slope Cobble content
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Slope Slow water movement Cobble content Arkport 10% Slope Slow water movement
126D	Palmyra gravelly loam, 15 to 25 percent slopes	Very limited	Palmyra 90% Slope Slow water movement Cobble content Arkport 10% Slope Slow water movement
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Slow water movement Cobble content
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Slow water movement Slope Cobble content

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Slope Slow water movement Cobble content Arkport 10% Slope Slow water movement
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Slow water movement Depth to bedrock Galoo 5% Slow water movement Depth to bedrock Nuhi 5% Slow water movement Depth to saturated zone Depth to bedrock
130B	Farmington loam, 3 to 8 percent slopes	Very limited	Farmington 90% Slow water movement Depth to bedrock Slope Galoo 5% Slow water movement Depth to bedrock Slope Nuhi 5% Slow water movement Depth to saturated zone Depth to bedrock Slope
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Slow water movement Depth to bedrock Nuhi 4% Slow water movement Depth to saturated zone Depth to bedrock
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Slow water movement Depth to bedrock Slope Nuhi 4% Slow water movement Depth to saturated zone Depth to bedrock
134A	Camillus silt loam, 0 to 3 percent slopes	Very limited	Camillus 95% Slow water movement Depth to bedrock Angola 5% Slow water movement Depth to saturated zone Depth to bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
134B	Camillus silt loam, 3 to 8 percent slopes	Very limited	Camillus 95% Slow water movement Depth to bedrock Slope Angola 5% Slow water movement Depth to saturated zone Depth to bedrock Slope
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Very limited	Willdin 60% Slow water movement Depth to saturated zone Slope Cobble content Norchip 38% Slow water movement Depth to saturated zone Palms, undrained 2% Ponding Slow water movement Depth to saturated zone
152B	Valois gravelly loam, 3 to 8 percent slopes	Very limited	Valois 85% Slow water movement Slope Cadosia 5% Slow water movement Slope Cobble content Too acid Volusia 5% Slow water movement Depth to saturated zone Mardin 5% Slow water movement Depth to saturated zone Slope
152C	Valois gravelly loam, 8 to 15 percent slopes	Very limited	Valois 85% Slope Slow water movement Mardin 5% Slope Slow water movement Depth to saturated zone Cadosia 5% Slope Slow water movement Cobble content Too acid Volusia 5% Slow water movement Depth to saturated zone Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Slope Slow water movement Cadosia 6% Slope Slow water movement Cobble content Too acid Mardin 6% Slope Slow water movement Depth to saturated zone Volusia 3% Slope Slow water movement Depth to saturated zone
152E	Valois gravelly loam, 25 to 35 percent slopes	Very limited	Valois 85% Slope Slow water movement Cadosia 6% Slope Slow water movement Cobble content Too acid Mardin 6% Slope Slow water movement Depth to saturated zone Towerville, extremely stony 3% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Very limited	Valois, cool 85% Slow water movement Slope Ontusia 5% Slow water movement Depth to saturated zone Rockrift 5% Slow water movement Cobble content Slope Too acid Willdin 5% Slow water movement Depth to saturated zone Slope Cobble content

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
153C	Valois gravelly loam, cool, 8 to 15 percent slopes	Very limited	Valois, cool 85% Slope Slow water movement Ontusia 5% Slow water movement Depth to saturated zone Slope Rockrift 5% Slope Slow water movement Cobble content Too acid Willdin 5% Slope Slow water movement Depth to saturated zone Cobble content
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Slope Slow water movement Rockrift 6% Slope Slow water movement Cobble content Too acid Willdin 6% Slope Slow water movement Depth to saturated zone Cobble content Ontusia 3% Slope Slow water movement Depth to saturated zone
153E	Valois gravelly loam, cool, 25 to 35 percent slopes	Very limited	Valois, cool 85% Slope Slow water movement Rockrift 6% Slope Slow water movement Cobble content Too acid Willdin 6% Slope Slow water movement Depth to saturated zone Cobble content Ischua 3% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
162B	Willdin channery silt loam, 3 to 8 percent slopes	Very limited	Willdin 85% Slow water movement Depth to saturated zone Slope Cobble content Lewbath 5% Slope Slow water movement Depth to saturated zone Cobble content Middlebrook 5% Slow water movement Depth to saturated zone Depth to bedrock Slope Ontusia 5% Slow water movement Depth to saturated zone
162C	Willdin channery silt loam, 8 to 15 percent slopes	Very limited	Willdin 85% Slope Slow water movement Depth to saturated zone Cobble content Ontusia 6% Slow water movement Depth to saturated zone Slope Lewbath 6% Slope Slow water movement Depth to saturated zone Cobble content Middlebrook 3% Slope Slow water movement Depth to saturated zone Depth to bedrock
162D	Willdin channery silt loam, 15 to 25 percent slopes	Very limited	Willdin 80% Slope Slow water movement Depth to saturated zone Cobble content Lewbath 10% Slope Slow water movement Depth to saturated zone Cobble content Mongaup 5% Slope Slow water movement Depth to bedrock Cobble content Ontusia 5% Slope Slow water movement Depth to saturated zone

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Very limited	Ontusia 88% Slow water movement Depth to saturated zone Willdin 5% Slow water movement Depth to saturated zone Slope Cobble content Norchip 5% Slow water movement Depth to saturated zone Greter 2% Slow water movement Depth to saturated zone Depth to bedrock Cobble content
168B	Ontusia channery silt loam, 3 to 8 percent slopes	Very limited	Ontusia 90% Slow water movement Depth to saturated zone Slope Norchip 5% Slow water movement Depth to saturated zone Willdin 5% Slope Slow water movement Depth to saturated zone Cobble content
168C	Ontusia channery silt loam, 8 to 15 percent slopes	Very limited	Ontusia 90% Slope Slow water movement Depth to saturated zone Norchip 5% Slow water movement Depth to saturated zone Slope Willdin 5% Slope Slow water movement Depth to saturated zone Cobble content
168D	Ontusia channery silt loam, 15 to 25 percent slopes	Very limited	Ontusia 90% Slope Slow water movement Depth to saturated zone Willdin 7% Slope Slow water movement Depth to saturated zone Cobble content Norchip 3% Slow water movement Depth to saturated zone Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171C	Lordstown-Manlius-Towerville complex, 8 to 15 percent slopes, very stony	Very limited	Lordstown, very stony 40% Slope Slow water movement Depth to bedrock Towerville, very stony 20% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Manlius, very stony 20% Slope Slow water movement Depth to bedrock Cobble content Cadosia, very stony 10% Slope Slow water movement Cobble content Stone content Mardin, very stony 5% Slope Slow water movement Depth to saturated zone Too acid Arnot, very stony 5% Slope Slow water movement Depth to bedrock Cobble content
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	Lordstown, very stony 40% Slope Slow water movement Depth to bedrock Manlius, very stony 20% Slope Slow water movement Depth to bedrock Cobble content Towerville, very stony 20% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Cadosia, very stony 10% Slope Slow water movement Cobble content Stone content Arnot, very stony 5% Slope Slow water movement Depth to bedrock Cobble content Mardin 5% Slope Slow water movement Depth to saturated zone Too acid Cobble content

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171E	Lordstown-Manlius-Towerville complex, 25 to 35 percent slopes, extremely stony	Very limited	<p>Lordstown, extremely stony 40%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to bedrock <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to bedrock Cobble content <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> Slope Slow water movement Cobble content Stone content <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to bedrock Cobble content <p>Mardin, extremely stony 5%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to saturated zone Too acid
171F	Lordstown-Manlius-Towerville complex, 35 to 80 percent slopes, extremely stony	Very limited	<p>Lordstown, extremely stony 40%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to bedrock <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to bedrock Cobble content <p>Arnot, extremely stony 10%</p> <ul style="list-style-type: none"> Slope Slow water movement Depth to bedrock Cobble content <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> Slope Slow water movement Cobble content Stone content

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	Norchip 85% Slow water movement Depth to saturated zone Norchip, very poorly drained 10% Ponding Slow water movement Depth to saturated zone Ontusia 5% Slow water movement Depth to saturated zone Slope
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	Norchip 85% Slow water movement Depth to saturated zone Slope Norchip, very poorly drained 10% Ponding Slow water movement Depth to saturated zone Ontusia 5% Slope Slow water movement Depth to saturated zone
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Very limited	Mongaup 45% Slow water movement Depth to bedrock Slope Cobble content Ischua 40% Slow water movement Depth to saturated zone Depth to bedrock Slope Cobble content Rockrift 10% Slow water movement Cobble content Slope Too acid Willdin 3% Slow water movement Depth to saturated zone Slope Cobble content Greter 2% Slow water movement Depth to saturated zone Depth to bedrock Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Very limited	Mongaup 45% Slope Slow water movement Depth to bedrock Cobble content Ischua 40% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Rockrift 10% Slope Slow water movement Cobble content Too acid Willdin 3% Slope Slow water movement Depth to saturated zone Cobble content Greter 2% Slope Slow water movement Depth to saturated zone Depth to bedrock
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Slope Slow water movement Depth to bedrock Cobble content Ischua, very stony 40% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Rockrift 10% Slope Slow water movement Cobble content Too acid Willdin 3% Slope Slow water movement Depth to saturated zone Cobble content Greter 2% Slope Slow water movement Depth to saturated zone Depth to bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Slope Slow water movement Depth to bedrock Cobble content Ischua, extremely stony 40% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Rockrift 10% Slope Slow water movement Cobble content Too acid Willdin 3% Slope Slow water movement Depth to saturated zone Cobble content Greter 2% Slope Slow water movement Depth to saturated zone Depth to bedrock
182B	Mongaup channery loam, 3 to 8 percent slopes	Very limited	Mongaup 75% Slow water movement Depth to bedrock Slope Cobble content Rockrift 10% Slow water movement Cobble content Slope Too acid Willdin 8% Slow water movement Depth to saturated zone Slope Cobble content Ischua 5% Slow water movement Depth to saturated zone Depth to bedrock Slope Cobble content Greter 2% Slow water movement Depth to saturated zone Depth to bedrock Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
182C	Mongaup channery loam, 8 to 15 percent slopes	Very limited	Mongaup 75% Slope Slow water movement Depth to bedrock Cobble content Rockrift 10% Slope Slow water movement Cobble content Too acid Willdin 8% Slope Slow water movement Depth to saturated zone Cobble content Ischua 5% Slope Slow water movement Depth to saturated zone Depth to bedrock Cobble content Gretor 2% Slope Slow water movement Depth to saturated zone Depth to bedrock
201A	Lima loam, 0 to 3 percent slopes	Very limited	Lima 85% Slow water movement Depth to saturated zone Seepage, porous bedrock Honeoye 5% Slow water movement Seepage, porous bedrock Kendaia 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Appleton 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Cazenovia 2% Slow water movement Depth to saturated zone Lyons 2% Slow water movement Depth to saturated zone Seepage, porous bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
201B	Lima loam, 3 to 8 percent slopes	Very limited	Lima 85% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Honeoye 6% Slow water movement Seepage, porous bedrock Slope Kendaia 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Appleton 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Cazenovia 2% Slow water movement Depth to saturated zone Slope Lyons 1% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope
201C	Lima loam, 8 to 15 percent slopes	Very limited	Lima 85% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Honeoye 7% Slope Slow water movement Seepage, porous bedrock Appleton 3% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Kendaia 3% Slope Slow water movement Depth to saturated zone Seepage, porous bedrock Cazenovia 2% Slope Slow water movement Depth to saturated zone

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Very limited	Lima 85% Slow water movement Depth to saturated zone Seepage, porous bedrock Honeoye 5% Slow water movement Seepage, porous bedrock Appleton 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Kendaia 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Lyons 2% Slow water movement Depth to saturated zone Seepage, porous bedrock Cazenovia 2% Slow water movement Depth to saturated zone
204B	Lima loam, 3 to 8 percent slopes, lower clay surface	Very limited	Lima 85% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Honeoye 6% Slow water movement Seepage, porous bedrock Slope Appleton 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Kendaia 3% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Cazenovia 2% Slow water movement Depth to saturated zone Slope Lyons 1% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Very limited	Phelps 85% Depth to saturated zone Slow water movement Galen 10% Depth to saturated zone Slow water movement Homer 5% Depth to saturated zone Slow water movement

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Depth to saturated zone Slow water movement Slope Galen 10% Depth to saturated zone Slow water movement Slope Homer 5% Depth to saturated zone Slow water movement Slope
212A	Nuhi silt loam, 0 to 3 percent slopes	Very limited	Nuhi 85% Slow water movement Depth to saturated zone Depth to bedrock Farmington 10% Slow water movement Depth to bedrock Nuhi, poorly drained 5% Slow water movement Depth to saturated zone Depth to bedrock
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Very limited	Aurora 60% Slow water movement Depth to saturated zone Depth to bedrock Slope Angola 30% Slow water movement Depth to saturated zone Depth to bedrock Slope Danley 5% Slow water movement Depth to saturated zone Slope Darrien 5% Slow water movement Depth to saturated zone Slope
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Slope Slow water movement Depth to saturated zone Depth to bedrock Angola 30% Slope Slow water movement Depth to saturated zone Depth to bedrock Darrien 5% Slope Slow water movement Depth to saturated zone Danley 5% Slope Slow water movement Depth to saturated zone

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
240D	Aurora-Angola silt loams, 15 to 25 percent slopes	Very limited	Aurora 60% Slope Slow water movement Depth to saturated zone Depth to bedrock Angola 30% Slope Slow water movement Depth to saturated zone Depth to bedrock Darlen 5% Slope Slow water movement Depth to saturated zone Danley 5% Slope Slow water movement Depth to saturated zone
241B	Aurora silt loam, 3 to 8 percent slopes	Very limited	Aurora 85% Slow water movement Depth to saturated zone Depth to bedrock Slope Angola 10% Slow water movement Depth to saturated zone Depth to bedrock Slope Danley 5% Slow water movement Depth to saturated zone Slope
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Slope Slow water movement Depth to saturated zone Depth to bedrock Angola 8% Slope Slow water movement Depth to saturated zone Depth to bedrock Danley 7% Slope Slow water movement Depth to saturated zone
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Slow water movement Depth to saturated zone Depth to bedrock Danley 10% Slope Slow water movement Depth to saturated zone Angola 5% Slope Slow water movement Depth to saturated zone Depth to bedrock

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
255B	Cazenovia silt loam, 3 to 8 percent slopes	Very limited	Cazenovia 85% Slow water movement Depth to saturated zone Slope Ovid 10% Slow water movement Depth to saturated zone Slope Cayuga 5% Slow water movement Depth to saturated zone Slope
255C	Cazenovia silt loam, 8 to 15 percent slopes	Very limited	Cazenovia 85% Slope Slow water movement Depth to saturated zone Cayuga 8% Slope Slow water movement Depth to saturated zone Ovid 7% Slow water movement Depth to saturated zone Slope
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Slow water movement Depth to saturated zone Cayuga 10% Slope Slow water movement Depth to saturated zone Ovid 5% Slope Slow water movement Depth to saturated zone
260B	Cayuga silt loam, 3 to 8 percent slopes	Very limited	Cayuga 85% Slow water movement Depth to saturated zone Slope Schoharie 10% Slow water movement Depth to saturated zone Slope Odessa 5% Slow water movement Depth to saturated zone Slope
260C	Cayuga silt loam, 8 to 15 percent slopes	Very limited	Cayuga 85% Slope Slow water movement Depth to saturated zone Schoharie 10% Slope Slow water movement Depth to saturated zone Odessa 5% Slow water movement Depth to saturated zone Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
260D	Cayuga silt loam, 15 to 25 percent slopes	Very limited	Cayuga 85% Slope Slow water movement Depth to saturated zone Lansing 10% Slope Slow water movement Seepage, porous bedrock Schoharie 5% Slope Slow water movement Depth to saturated zone
304A	Kendaia loam, 0 to 3 percent slopes	Very limited	Kendaia 85% Slow water movement Depth to saturated zone Seepage, porous bedrock Lima 6% Slow water movement Depth to saturated zone Seepage, porous bedrock Lyons 5% Slow water movement Depth to saturated zone Seepage, porous bedrock Ovid 2% Slow water movement Depth to saturated zone Churchville 2% Slow water movement Depth to saturated zone
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Lima 7% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Lyons 4% Slow water movement Depth to saturated zone Seepage, porous bedrock Slope Churchville 2% Slow water movement Depth to saturated zone Slope Ovid 2% Slow water movement Depth to saturated zone Slope

Disposal of Wastewater by Rapid Infiltration

Aggregation Method: Dominant Condition
Tie-break Rule: Higher

Ontario County, New York
Survey Area Version and Date: 23 - 09/05/2023

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
342A	Angola silt loam, 0 to 3 percent slopes	Very limited	Angola 90% Slow water movement Depth to saturated zone Depth to bedrock Darrien 5% Slow water movement Depth to saturated zone Ilion 5% Slow water movement Depth to saturated zone
356A	Ovid silt loam, 0 to 3 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Odessa 10% Slow water movement Depth to saturated zone Lakemont 5% Slow water movement Depth to saturated zone
356B	Ovid silt loam, 3 to 8 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Slope Odessa 10% Slow water movement Depth to saturated zone Slope Lakemont 5% Slow water movement Depth to saturated zone
357B	Ovid silty clay loam, 3 to 8 percent slopes	Very limited	Ovid 85% Slow water movement Depth to saturated zone Slope Odessa 10% Slow water movement Depth to saturated zone Slope Lakemont 5% Slow water movement Depth to saturated zone
357C	Ovid silty clay loam, 8 to 15 percent slopes	Very limited	Ovid 85% Slope Slow water movement Depth to saturated zone Odessa 10% Slow water movement Depth to saturated zone Slope Lakemont 5% Slow water movement Depth to saturated zone
400A	Udorthents, loamy, 0 to 3 percent slopes	Not limited	Udorthents, loamy 80%
401D	Udorthents, refuse substratum. 0 to 25 percent slopes	Not rated	Udorthents, refuse substratum 90%
PG	Pits, gravel and sand	Not rated	Pits, gravel and sand 75%
PQ	Pits, quarry	Not rated	Pits, quarry 80%
W	Water	Not rated	Water 100%

Disposal of Wastewater by Rapid Infiltration

Rating Options

Attribute Name: Disposal of Wastewater by Rapid Infiltration

Rapid infiltration of wastewater is a process in which wastewater applied in a level basin at a rate of 4 to 120 inches per week percolates through the soil. The wastewater may eventually reach the ground water. The application rate commonly exceeds the rate needed for irrigation of cropland. Vegetation is not a necessary part of the treatment; thus, the basins may or may not be vegetated. The thickness of the soil material needed for proper treatment of the wastewater is more than 72 inches. As a result, geologic and hydrologic investigation is needed to ensure proper design and performance and to determine the risk of ground-water pollution.

Soil properties are important considerations in areas where soils are used as sites for the treatment and disposal of organic waste and wastewater. Selection of soils with properties that favor waste management can help to prevent environmental damage.

Municipal wastewater is the waste stream from a municipality. It contains domestic waste and may contain industrial waste. It may have received primary or secondary treatment. It is rarely untreated sewage. Food-processing wastewater results from the preparation of fruits, vegetables, milk, cheese, and meats for public consumption. In places it is high in content of sodium and chloride. The effluent in lagoons and storage ponds is from facilities used to treat or store food-processing wastewater or domestic or animal waste. Domestic and food-processing wastewater is very dilute, and the effluent from the facilities that treat or store it commonly is very low in content of carbonaceous and nitrogenous material; the content of nitrogen commonly ranges from 10 to 30 milligrams per liter. The wastewater from animal waste treatment lagoons or storage ponds, however, has much higher concentrations of these materials, mainly because the manure has not been diluted as much as the domestic waste. The content of nitrogen in this wastewater generally ranges from 50 to 2,000 milligrams per liter. When wastewater is applied, checks should be made to ensure that nitrogen, heavy metals, and salts are not added in excessive amounts.

The ratings are based on the soil properties that affect the risk of pollution and the design, construction, and performance of the system. Depth to a water table, ponding, flooding, and depth to bedrock or a cemented pan affect the risk of pollution and the design and construction of the system. Slope, stones, and cobbles also affect design and construction. Saturated hydraulic conductivity (Ksat) and reaction affect performance. Permanently frozen soils are unsuitable for waste treatment.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect agricultural waste management. "Not limited" indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. "Somewhat limited" indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. "Very limited" indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey or the Aggregation Report in Soil Data Viewer are determined by the aggregation method chosen. An aggregated rating class is shown for each map unit. The components listed for each map unit are only those that have the same rating class as listed for the map unit. The percent composition of each component in a particular map unit is presented to help the user better understand the percentage of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the map unit aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey or from the Soil Data Mart site. Onsite investigation may be needed to validate these interpretations and to confirm the identity of the soil on a given site.

Aggregation Method: Dominant Condition

Aggregation is the process by which a set of component attribute values is reduced to a single value to represent the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. The components in the map unit name represent the major soils within a map unit delineation. Minor components make up the balance of the map unit. Great differences in soil properties can occur between map unit components and within short distances. Minor components may be very different from the major components. Such differences could significantly affect use and management of the map unit. Minor components may or may not be documented in the database. The results of aggregation do not reflect the presence or absence of limitations of the components which are not listed in the database. An on-site investigation is required to identify the location of individual map unit components.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents

Disposal of Wastewater by Rapid Infiltration

the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be generated. Aggregation must be done because, on any soil map, map units are delineated but components are not.

The aggregation method "Dominant Condition" first groups like attribute values for the components in a map unit. For each group, percent composition is set to the sum of the percent composition of all components participating in that group. These groups now represent "conditions" rather than components. The attribute value associated with the group with the highest cumulative percent composition is returned. If more than one group shares the highest cumulative percent composition, the corresponding "tie-break" rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher group value should be returned in the case of a percent composition tie. The result returned by this aggregation method represents the dominant condition throughout the map unit only when no tie has occurred.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.