

# Slow Rate Treatment of Wastewater

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% Depth to saturated zone Flooding Udifluvents, frequently flooded 40% Depth to saturated zone Flooding Too acid Cobble content Wayland 10% Depth to saturated zone Flooding Naples Creek 5% Depth to saturated zone Flooding Too acid
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Somewhat limited	Geneseo 90% Depth to saturated zone Flooding Slow water movement
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Very limited	Hemlock 90% Depth to saturated zone Flooding Slow water movement Naples Creek 10% Depth to saturated zone Flooding Too acid
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Very limited	Naples Creek 90% Depth to saturated zone Flooding Too acid Wayland 5% Depth to saturated zone Flooding Hemlock 5% Depth to saturated zone Flooding Slow water movement
5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Depth to saturated zone Flooding Wayland, very poorly drained 30% Ponding Depth to saturated zone Flooding Wakeville 10% Depth to saturated zone Flooding Too acid

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12D	Rockrift channery silt loam, 15 to 25 percent slopes	Very limited	Rockrift 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Mongaup, very stony 10% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Cobble content Willdin 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid
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% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Lordstown, very stony 10% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Mardin 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid
15A	Guyanoga channery silt loam, fan, 0 to 3 percent slopes	Somewhat limited	Guyanoga, fan 90% Too acid
15B	Guyanoga channery silt loam, fan, 3 to 8 percent slopes	Somewhat limited	Guyanoga, fan 90% Too acid Too steep for surface application
16A	Almond channery silt loam, 0 to 3 percent slopes	Very limited	Almond 80% Depth to saturated zone Slow water movement Too acid Norchip 8% Depth to saturated zone Slow water movement Too acid Ontusia 7% Depth to saturated zone Slow water movement Too acid Gretor 5% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application

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16B	Almond channery silt loam, 3 to 8 percent slopes	Very limited	Almond 80% Depth to saturated zone Slow water movement Too acid Too steep for surface application Gretor 5% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement Salamanca 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Ontusia 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid Norchip 5% Depth to saturated zone Slow water movement Too acid
16C	Almond channery silt loam, 8 to 15 percent slopes	Very limited	Almond 80% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Salamanca 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Slow water movement Norchip 5% Depth to saturated zone Slow water movement Too acid Ontusia 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Gretor 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement

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18A	Homer fine sandy loam, 0 to 3 percent slopes	Very limited	Homer 90% Filtering capacity Depth to saturated zone Phelps 5% Depth to saturated zone Fine-loamy, mixed, active, mesic Typic Argiaquolls 5% Depth to saturated zone
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 Homer 8% Filtering capacity Depth to saturated zone Atherton 7% Depth to saturated zone Too acid Palms, undrained 5% Ponding 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 Too acid Fine-loamy, mixed, active, mesic Typic Argiaquolls 39% Ponding Depth to saturated zone Homer 8% Filtering capacity Depth to saturated zone Canandaigua 7% Depth to saturated zone Slow water movement Castile 5% Filtering capacity Depth to saturated zone Too acid
24A	Howard gravelly loam, 0 to 3 percent slopes	Very limited	Howard 80% Filtering capacity Too acid Palmyra 10% Filtering capacity Phelps 5% Depth to saturated zone
24B	Howard gravelly loam, 3 to 8 percent slopes	Very limited	Howard 80% Filtering capacity Too steep for surface application Too acid Palmyra 10% Filtering capacity Too steep for surface application Phelps 5% Depth to saturated zone Too steep for surface application

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24C	Howard gravelly loam, 8 to 15 percent slopes	Very limited	Howard 80% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid Palmyra 10% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Arkport 5% Too steep for surface application Too steep for sprinkler irrigation Phelps 5% Depth to saturated zone Too steep for surface application
24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid Palmyra 20% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Arkport 13% Too steep for surface application Too steep for sprinkler irrigation Phelps 2% Depth to saturated zone Too steep for surface application
25A	Chenango gravelly loam, 0 to 3 percent slopes	Very limited	Chenango 90% Filtering capacity Too acid Castile 8% Filtering capacity Depth to saturated zone Too acid
25B	Chenango gravelly loam, 3 to 8 percent slopes	Very limited	Chenango 90% Filtering capacity Too acid Too steep for surface application Castile 5% Filtering capacity Depth to saturated zone Too acid Too steep for surface application
25C	Chenango gravelly loam, 8 to 15 percent slopes	Very limited	Chenango 90% Filtering capacity Too steep for surface application Too acid Too steep for sprinkler irrigation Castile 5% Filtering capacity Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler irrigation Valois 5% Too steep for surface application Too acid Too steep for sprinkler irrigation

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25D	Chenango gravelly loam, 15 to 25 percent slopes	Very limited	Chenango 90% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid Castile 8% Filtering capacity Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Valois 2% Too steep for surface application Too steep for sprinkler irrigation Too acid
25E	Chenango gravelly loam, 25 to 35 percent slopes	Very limited	Chenango 90% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid Valois 10% Too steep for surface application Too steep for sprinkler irrigation Too acid
26B	Chenango channery loam, fan, 3 to 8 percent slopes	Very limited	Chenango, fan 85% Filtering capacity Too steep for surface application Too acid Castile 5% Filtering capacity Depth to saturated zone Too acid Too steep for surface application Hemlock 5% Depth to saturated zone Flooding Slow water movement
27B	Castile gravelly silt loam, 3 to 8 percent slopes	Very limited	Castile 85% Filtering capacity Depth to saturated zone Too acid Too steep for surface application Phelps 5% Depth to saturated zone Too steep for surface application Chenango 5% Filtering capacity Too acid Too steep for surface application Homer 5% Filtering capacity Depth to saturated zone
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% Depth to saturated zone Slow water movement

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
31B	Collamer silt loam, 3 to 8 percent slopes	Very limited	Collamer 85% Depth to saturated zone Too steep for surface application Slow water movement Niagara 10% Depth to saturated zone Too steep for surface application Slow water movement Schoharie 5% Depth to saturated zone Slow water movement Too steep for surface application
31C	Collamer silt loam, 8 to 15 percent slopes	Very limited	Collamer 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Niagara 10% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Schoharie 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation
31D	Collamer silt loam, 15 to 25 percent slopes	Very limited	Collamer 90% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Schoharie 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Niagara 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement
32A	Dunkirk fine sandy loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Slow water movement
32B	Dunkirk fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Too steep for surface application Slow water movement Arkport 4% Too steep for surface application
33A	Dunkirk silt loam, 0 to 3 percent slopes	Somewhat limited	Dunkirk 90% Slow water movement
33B	Dunkirk silt loam, 3 to 8 percent slopes	Somewhat limited	Dunkirk 90% Too steep for surface application Slow water movement Too steep for sprinkler irrigation Arkport 4% Too steep for surface application Too steep for sprinkler irrigation

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



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

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
36B	Schoharie silty clay loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Too steep for surface application Odessa 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid Collamer 2% Depth to saturated zone Too steep for surface application Slow water movement Too acid
36C	Schoharie silty clay loam, 8 to 15 percent slopes	Very limited	Schoharie 85% Too steep for surface application Slow water movement Too steep for sprinkler irrigation Depth to saturated zone Cazenovia 5% Too steep for surface application Slow water movement Depth to saturated zone Too steep for sprinkler irrigation Odessa 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Cayuga 3% Too steep for surface application Slow water movement Depth to saturated zone Too steep for sprinkler irrigation Collamer 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid

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36D	Schoharie silty clay loam, 15 to 25 percent slopes	Very limited	Schoharie 85% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Cazenovia 5% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Odessa 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Cayuga 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Collamer 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid
36E	Schoharie silty clay loam, 25 to 45 percent slopes	Very limited	Schoharie 85% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Odessa 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Cazenovia 5% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Cayuga 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Collamer 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
37A	Schoharie silt loam, 0 to 3 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Odessa 5% Depth to saturated zone Slow water movement Too acid Collamer 2% Depth to saturated zone Slow water movement Too acid
37B	Schoharie silt loam, 3 to 8 percent slopes	Very limited	Schoharie 85% Slow water movement Depth to saturated zone Too steep for surface application Odessa 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid Collamer 2% Depth to saturated zone Slow water movement Too steep for surface application Too acid
38A	Niagara silt loam, 0 to 3 percent slopes	Very limited	Niagara 85% Depth to saturated zone Slow water movement Canandaigua 5% Depth to saturated zone Slow water movement Rhinebeck 5% Depth to saturated zone Slow water movement 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 Too steep for surface application Slow water movement Canandaigua 5% Depth to saturated zone Too steep for surface application Slow water movement Rhinebeck 5% Depth to saturated zone Slow water movement Too steep for surface application Collamer 5% Depth to saturated zone Slow water movement Too steep for surface application

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39A	Rhinebeck silty clay loam, 0 to 3 percent slopes	Very limited	Rhinebeck 90% Depth to saturated zone Slow water movement Lakemont 5% Depth to saturated zone Slow water movement Too acid Niagara 5% Depth to saturated zone Slow water movement
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Filtering capacity Depth to saturated zone Slow water movement Aeric Epiaquepts 45% Filtering capacity Depth to saturated zone Slow water movement Elnora 5% Filtering capacity Depth to saturated zone Too acid
43A	Canandaigua silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Depth to saturated zone Slow water movement Canandaigua 4% Ponding Depth to saturated zone Slow water movement Lakemont 3% Depth to saturated zone Slow water movement Too acid Niagara 3% Depth to saturated zone Slow water movement
44A	Canandaigua mucky silt loam, 0 to 3 percent slopes	Very limited	Canandaigua 90% Ponding Depth to saturated zone Slow water movement Canandaigua 5% Depth to saturated zone Slow water movement Lakemont 3% Depth to saturated zone Slow water movement Too acid Palms, undrained 2% Ponding Depth to saturated zone
45A	Fonda mucky silt loam, 0 to 3 percent slopes	Very limited	Fonda 95% Ponding Depth to saturated zone Slow water movement Canandaigua 3% Ponding Depth to saturated zone Slow water movement Palms, undrained 2% Ponding Depth to saturated zone

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
46A	Galen fine sandy loam, 0 to 3 percent slopes	Very limited	Galen 90% Depth to saturated zone Too acid Aeric Epiaquepts 5% Filtering capacity Depth to saturated zone Slow water movement Kendaia 5% Depth to saturated zone Seepage, porous bedrock Too acid
46B	Galen fine sandy loam, 3 to 8 percent slopes	Very limited	Galen 90% Depth to saturated zone Too steep for surface application Too acid Kendaia 5% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Aeric Epiaquepts 5% Filtering capacity Depth to saturated zone Slow water movement
48A	Arkport fine sandy loam, 0 to 3 percent slopes	Not limited	Arkport 95%
48B	Arkport fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Too steep for surface application Dunkirk 3% Too steep for surface application Slow water movement
48C	Arkport fine sandy loam, 8 to 15 percent slopes	Very limited	Arkport 95% Too steep for surface application Too steep for sprinkler irrigation Dunkirk 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Galen 2% Depth to saturated zone Too steep for surface application Too acid Too steep for sprinkler irrigation
48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Too steep for surface application Too steep for sprinkler irrigation Dunkirk 8% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Palmyra 2% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Somewhat limited	Arkport 95% Too steep for surface application Too acid Dunkirk 3% Too steep for surface application Slow water movement

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49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Too steep for surface application Too steep for sprinkler irrigation Too acid Dunkirk 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Palmyra 2% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Too steep for surface application Too steep for sprinkler irrigation Too acid Dunkirk 8% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Palmyra 2% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation
49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Too steep for surface application Too steep for sprinkler irrigation Too acid Dunkirk 8% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Palmyra 2% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Somewhat limited	Dunkirk 50% Slow water movement Too steep for surface application Arkport 45% Too steep for surface application
50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Very limited	Dunkirk 60% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Arkport 35% Too steep for surface application Too steep for sprinkler irrigation Collamer 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement

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



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62B	Mardin channery silt loam, 3 to 8 percent slopes	Very limited	<p>Mardin 85%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too steep for surface application</li> <li>Cobble content</li> </ul> <p>Lordstown 5%</p> <ul style="list-style-type: none"> <li>Depth to bedrock</li> <li>Too acid</li> <li>Too steep for surface application</li> <li>Cobble content</li> </ul> <p>Bath 5%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Slow water movement</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to saturated zone</li> <li>Too acid</li> </ul> <p>Volusia 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too acid</li> </ul>
62C	Mardin channery silt loam, 8 to 15 percent slopes	Very limited	<p>Mardin 88%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Slow water movement</li> <li>Too steep for sprinkler irrigation</li> <li>Cobble content</li> </ul> <p>Bath 5%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Too acid</li> </ul> <p>Volusia 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too steep for surface application</li> <li>Too acid</li> </ul> <p>Lordstown 2%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Cobble content</li> </ul>

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62D	Mardin channery silt loam, 15 to 25 percent slopes	Very limited	<p>Mardin 85%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Cobble content</li> </ul> <p>Lordstown 5%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Volusia 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Slow water movement</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> </ul> <p>Bath 5%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Too acid</li> </ul>
62E	Mardin channery silt loam, 25 to 35 percent slopes	Very limited	<p>Mardin 80%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Cobble content</li> </ul> <p>Bath 8%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Depth to saturated zone</li> <li>Too acid</li> </ul> <p>Lordstown, very stony 7%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Large stones on the surface</li> </ul> <p>Volusia 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Too acid</li> </ul>

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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
63B	Langford channery silt loam, 3 to 8 percent slopes	Very limited	Langford 85% Depth to saturated zone Slow water movement Too steep for surface application Too acid Erie 10% Depth to saturated zone Slow water movement Too acid Schuyler 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application
63C	Langford channery silt loam, 8 to 15 percent slopes	Very limited	Langford 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Chadakoin 5% Too steep for surface application Too steep for sprinkler irrigation Too acid Erie 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid Schuyler 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid

# Slow Rate Treatment of Wastewater

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
63D	Langford channery silt loam, 15 to 25 percent slopes	Very limited	Langford 80% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Slow water movement Erie 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Schuyler 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Slow water movement Towerville 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Chadakoin 5% Too steep for surface application Too steep for sprinkler irrigation Too acid
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Very limited	Langford 50% Depth to saturated zone Slow water movement Too steep for surface application Too acid Erie 40% Depth to saturated zone Slow water movement Too steep for surface application Too acid Chippewa 5% Depth to saturated zone Slow water movement Too acid Fremont 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Slow water movement Seepage, porous bedrock Lyons, frequently ponded 15% Ponding Depth to saturated zone Slow water movement Seepage, porous bedrock Appleton 3% Depth to saturated zone Slow water movement Canandaigua 3% Depth to saturated zone Slow water movement Kendaia 2% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Palms, undrained 1% Ponding Depth to saturated zone Iliion 1% Depth to saturated zone Slow water movement
68A	Volusia channery silt loam, 0 to 3 percent slopes	Very limited	Volusia 90% Depth to saturated zone Slow water movement Too acid Chippewa 5% Depth to saturated zone Slow water movement Too acid Mardin 5% Depth to saturated zone Slow water movement Too steep for surface application Cobble content
68B	Volusia channery silt loam, 3 to 8 percent slopes	Very limited	Volusia 90% Depth to saturated zone Slow water movement Too steep for surface application Too acid Chippewa 5% Depth to saturated zone Slow water movement Too acid Mardin 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Cobble content

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
68C	Volusia channery silt loam, 8 to 15 percent slopes	Very limited	Volusia 90% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Mardin 6% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Cobble content Chippewa 4% Depth to saturated zone Slow water movement Too acid Too steep for surface application
68D	Volusia channery silt loam, 15 to 25 percent slopes	Very limited	Volusia 90% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Mardin 7% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Cobble content Chippewa 3% Depth to saturated zone Slow water movement Too acid Too steep for surface application
69A	Erie channery silt loam, 0 to 3 percent slopes	Very limited	Erie 80% Depth to saturated zone Slow water movement Too acid Chippewa 10% Depth to saturated zone Slow water movement Too acid Fremont 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application Langford 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
69B	Erie channery silt loam, 3 to 8 percent slopes	Very limited	Erie 80% Depth to saturated zone Slow water movement Too steep for surface application Too acid Langford 10% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Chippewa 5% Depth to saturated zone Slow water movement Too acid Fremont 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application
69C	Erie channery silt loam, 8 to 15 percent slopes	Very limited	Erie 80% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Langford 10% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Slow water movement Fremont 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Chippewa 5% Depth to saturated zone Slow water movement Too acid
71A	Darien silt loam, 0 to 3 percent slopes	Very limited	Darien 95% Depth to saturated zone Slow water movement Too acid Ilion 4% Depth to saturated zone Slow water movement Too acid Angola 1% Depth to saturated zone Depth to bedrock Slow water movement

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
71B	Darien silt loam, 3 to 8 percent slopes	Very limited	Darien 95% Depth to saturated zone Slow water movement Too acid Too steep for surface application Ilion 4% Depth to saturated zone Slow water movement Too steep for surface application Too acid Angola 1% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application
71C	Darien silt loam, 8 to 15 percent slopes	Very limited	Darien 95% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Ilion 4% Depth to saturated zone Slow water movement Too steep for surface application Too steep for sprinkler irrigation Too acid Angola 1% Depth to saturated zone Too steep for surface application Depth to bedrock Slow water movement Too steep for sprinkler irrigation
72A	Darien-Ilion silt loams, 0 to 3 percent slopes	Very limited	Darien 68% Depth to saturated zone Slow water movement Too acid Ilion 27% Depth to saturated zone Slow water movement Too acid Angola 5% Depth to saturated zone Depth to bedrock Slow water movement
72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Depth to saturated zone Slow water movement Too acid Too steep for surface application Ilion 27% Depth to saturated zone Slow water movement Too steep for surface application Too acid Angola 5% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application



# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

Ontario County, New York  
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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
73B	Gretor silt loam, 3 to 8 percent slopes	Very limited	Gretor 95% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application Gretor, poorly drained 5% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application
73C	Gretor silt loam, 8 to 15 percent slopes	Very limited	Gretor 95% Depth to saturated zone Too steep for surface application Depth to bedrock Slow water movement Too steep for sprinkler irrigation Gretor, poorly drained 5% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Too acid
73D	Gretor channery silt loam, 15 to 25 percent slopes	Very limited	Gretor 90% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Mongaup, very stony 8% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Cobble content Gretor, poorly drained 2% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Too acid
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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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% Depth to saturated zone Too steep for surface application Depth to bedrock Slow water movement Too steep for sprinkler irrigation Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application
76D	Orpark channery silt loam, 15 to 25 percent slopes	Very limited	Orpark 90% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Slow water movement Too acid Too steep for surface application Lordstown, very stony 5% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid
77A	Chippewa silt loam, 0 to 3 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Slow water movement Too acid Chippewa, very poorly drained 10% Ponding Depth to saturated zone Slow water movement Too acid Volusia 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid
77B	Chippewa silt loam, 3 to 8 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Slow water movement Too acid Too steep for surface application Volusia 10% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Chippewa, very poorly drained 5% Ponding Depth to saturated zone Slow water movement Too acid

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition

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Ontario County, New York

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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 Depth to saturated zone Slow water movement Too acid Edwards, drained 35% Depth to saturated zone Slow water movement Too acid Martisco, undrained 10% Ponding Depth to saturated zone Slow water movement Canandaigua 5% Ponding Depth to saturated zone Slow water movement
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Ponding Depth to saturated zone Slow water movement Martisco, drained 35% Depth to saturated zone Slow water movement Canandaigua 5% Ponding Depth to saturated zone Slow water movement Palms, drained 5% Depth to saturated zone
95A	Sapristis, 0 to 3 percent slopes, inundated	Very limited	Sapristis, inundated 85% Ponding Depth to saturated zone Palms, undrained 5% Ponding Depth to saturated zone Fluvaquents, frequently flooded 5% Depth to saturated zone Flooding Carlisle, undrained 5% Ponding Depth to saturated zone Too acid
101A	Honeoye loam, 0 to 3 percent slopes	Somewhat limited	Honeoye 85% Seepage, porous bedrock Too acid Lansing 4% Too acid Seepage, porous bedrock
101B	Honeoye loam, 3 to 8 percent slopes	Somewhat limited	Honeoye 85% Too steep for surface application Seepage, porous bedrock Too acid Lansing 4% Too steep for surface application Too acid Seepage, porous bedrock

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101C	Honeoye loam, 8 to 15 percent slopes	Very limited	<p>Honeoye 85%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Seepage, porous bedrock</li> <li>Too acid</li> </ul> <p>Lima 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Seepage, porous bedrock</li> </ul> <p>Lansing 4%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Seepage, porous bedrock</li> </ul> <p>Kendaia 4%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Seepage, porous bedrock</li> <li>Too acid</li> </ul> <p>Wassaic 2%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Depth to bedrock</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> </ul>
101D	Honeoye loam, 15 to 25 percent slopes	Very limited	<p>Honeoye 85%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Seepage, porous bedrock</li> <li>Too acid</li> </ul> <p>Lima 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Seepage, porous bedrock</li> </ul> <p>Lansing 4%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Seepage, porous bedrock</li> </ul> <p>Kendaia 4%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Seepage, porous bedrock</li> <li>Too acid</li> </ul> <p>Wassaic 2%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Slow water movement</li> </ul>

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101E	Honeoye loam, 25 to 35 percent slopes	Very limited	Honeoye 85% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Lima 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Kendaia 4% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Lansing 4% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Wassaic 2% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement
104A	Honeoye loam, 0 to 3 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Seepage, porous bedrock Too acid Lansing 4% Too acid Seepage, porous bedrock
104B	Honeoye loam, 3 to 8 percent slopes, lower clay surface	Somewhat limited	Honeoye, lower clay surface 85% Too steep for surface application Seepage, porous bedrock Too acid Lansing 4% Too steep for surface application Too acid Seepage, porous bedrock

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
104C	Honeoye loam, 8 to 15 percent slopes, lower clay surface	Very limited	Honeoye, lower clay surface 85% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Lima 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Kendaia 4% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Lansing 4% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Wassaic 2% Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement
106B	Danley-Lansing complex, 3 to 8 percent slopes	Very limited	Danley 50% Depth to saturated zone Slow water movement Too steep for surface application Too acid Conesus 2% Depth to saturated zone Too acid Too steep for surface application Seepage, porous bedrock Kendaia 1% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Palatine 1% Slow water movement Depth to bedrock Too steep for surface application Appleton 1% Depth to saturated zone Slow water movement Too steep for surface application

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Very limited	Conesus 50% Depth to saturated zone Too acid Too steep for surface application Seepage, porous bedrock Kendaia 2% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Appleton 1% Depth to saturated zone Slow water movement Too steep for surface application Danley 1% Depth to saturated zone Slow water movement Too steep for surface application Too acid Palatine 1% Slow water movement Depth to bedrock Too steep for surface application
108C	Lansing loam, 8 to 15 percent slopes	Very limited	Lansing 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Conesus 8% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Kendaia 3% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Danley 1% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Wassaic 1% Too steep for surface application Depth to bedrock Slow water movement Too steep for sprinkler irrigation



# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108D	Lansing loam, 15 to 25 percent slopes	Very limited	Lansing 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Conesus 9% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Wassaic 3% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Kendaia 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Appleton 1% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement
108E	Lansing loam, 25 to 35 percent slopes	Very limited	Lansing 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 10% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Aurora 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement
112B	Ontario fine sandy loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Too acid Too steep for surface application Seepage, porous bedrock Honeoye 5% Too steep for surface application Seepage, porous bedrock Too acid Cazenovia 3% Slow water movement Depth to saturated zone Too steep for surface application

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112C	Ontario fine sandy loam, 8 to 15 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Hilton 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock
112D	Ontario fine sandy loam, 15 to 25 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 5% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Hilton 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
112E	Ontario fine sandy loam, 25 to 35 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 5% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Hilton 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock
114B	Ontario gravelly loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Too steep for surface application Too acid Seepage, porous bedrock Honeoye 5% Too steep for surface application Seepage, porous bedrock Too acid Cazenovia 3% Slow water movement Depth to saturated zone Too steep for surface application

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
114C	Ontario gravelly loam, 8 to 15 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Hilton 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Cazenovia 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock
114D	Ontario gravelly loam, 15 to 25 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Hilton 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition  
Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
116B	Ontario loam, 3 to 8 percent slopes	Somewhat limited	Ontario 85% Too steep for surface application Too acid Seepage, porous bedrock Honeoye 5% Too steep for surface application Seepage, porous bedrock Too acid Cazenovia 3% Slow water movement Depth to saturated zone Too steep for surface application
116C	Ontario loam, 8 to 15 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Hilton 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 3% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock

# Slow Rate Treatment of Wastewater

Aggregation Method: Dominant Condition

Tie-break Rule: Higher

Ontario County, New York

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
116D	Ontario loam, 15 to 25 percent slopes	Very limited	Ontario 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Cazenovia 5% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Depth to saturated zone Honeoye 5% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Hilton 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Appleton 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock
118F	Ontario, Honeoye, and Lansing soils, 35 to 55 percent slopes	Very limited	Ontario 40% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Honeoye 35% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Lansing 20% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Aurora 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Howard 40% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid Colonie 5% Too steep for surface application Too steep for sprinkler irrigation Too acid

# Slow Rate Treatment of Wastewater

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
122A	Palmyra cobbly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Filtering capacity
122B	Palmyra cobbly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Filtering capacity Too steep for surface application
124A	Palmyra fine sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Filtering capacity Howard 10% Filtering capacity Too acid
124B	Palmyra fine sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Filtering capacity Too steep for surface application Howard 10% Filtering capacity Too acid Too steep for surface application
126A	Palmyra gravelly loam, 0 to 3 percent slopes	Very limited	Palmyra 95% Filtering capacity
126B	Palmyra gravelly loam, 3 to 8 percent slopes	Very limited	Palmyra 95% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation
126C	Palmyra gravelly loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Arkport 10% Too steep for surface application Too steep for sprinkler irrigation
126D	Palmyra gravelly loam, 15 to 25 percent slopes	Very limited	Palmyra 90% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Arkport 10% Too steep for surface application Too steep for sprinkler irrigation
128A	Palmyra gravelly sandy loam, 0 to 3 percent slopes	Very limited	Palmyra 90% Filtering capacity Too acid
128B	Palmyra gravelly sandy loam, 3 to 8 percent slopes	Very limited	Palmyra 90% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid
128C	Palmyra gravelly sandy loam, 8 to 15 percent slopes	Very limited	Palmyra 90% Filtering capacity Too steep for surface application Too steep for sprinkler irrigation Too acid Arkport 10% Too steep for surface application Too steep for sprinkler irrigation

# Slow Rate Treatment of Wastewater

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
130A	Farmington loam, 0 to 3 percent slopes	Very limited	Farmington 90% Depth to bedrock Too acid Galoo 5% Depth to bedrock Slow water movement Nuhi 5% Depth to saturated zone Depth to bedrock Slow water movement
130B	Farmington loam, 3 to 8 percent slopes	Very limited	Farmington 90% Depth to bedrock Too steep for surface application Too acid Galoo 5% Depth to bedrock Slow water movement Too steep for surface application Nuhi 5% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application
132A	Galoo loam, 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Slow water movement Nuhi 4% Depth to saturated zone Depth to bedrock Slow water movement
132B	Galoo loam, 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Slow water movement Too steep for surface application Nuhi 4% Depth to saturated zone Depth to bedrock Slow water movement
134A	Camillus silt loam, 0 to 3 percent slopes	Very limited	Camillus 95% Depth to bedrock Slow water movement Angola 5% Depth to saturated zone Depth to bedrock Slow water movement
134B	Camillus silt loam, 3 to 8 percent slopes	Very limited	Camillus 95% Depth to bedrock Slow water movement Too steep for surface application Angola 5% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application



# Slow Rate Treatment of Wastewater

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
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Very limited	Willdin 60% Depth to saturated zone Slow water movement Too steep for surface application Too acid Too steep for sprinkler irrigation Norchip 38% Depth to saturated zone Slow water movement Too acid Palms, undrained 2% Ponding Depth to saturated zone
152B	Valois gravelly loam, 3 to 8 percent slopes	Somewhat limited	Valois 85% Too acid Too steep for surface application Cadosia 5% Too acid Too steep for surface application Cobble content
152C	Valois gravelly loam, 8 to 15 percent slopes	Very limited	Valois 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Mardin 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Cadosia 5% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Volusia 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid
152D	Valois gravelly loam, 15 to 25 percent slopes	Very limited	Valois 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Cadosia 6% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Mardin 6% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Volusia 3% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid

# Slow Rate Treatment of Wastewater

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
152E	Valois gravelly loam, 25 to 35 percent slopes	Very limited	Valois 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Cadosia 6% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Mardin 6% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Towerville, extremely stony 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid
153B	Valois gravelly loam, cool, 3 to 8 percent slopes	Somewhat limited	Valois, cool 85% Too acid Too steep for surface application
153C	Valois gravelly loam, cool, 8 to 15 percent slopes	Very limited	Valois, cool 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Ontusia 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid Rockrift 5% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid

# Slow Rate Treatment of Wastewater

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
153D	Valois gravelly loam, cool, 15 to 25 percent slopes	Very limited	Valois, cool 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Rockrift 6% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 6% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Ontusia 3% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid
153E	Valois gravelly loam, cool, 25 to 35 percent slopes	Very limited	Valois, cool 85% Too steep for surface application Too steep for sprinkler irrigation Too acid Rockrift 6% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 6% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Ischua 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid

# Slow Rate Treatment of Wastewater

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% Depth to saturated zone Slow water movement Too acid Too steep for surface application Cobble content Lewbath 5% Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Depth to saturated zone Middlebrook 5% Depth to saturated zone Depth to bedrock Too acid Slow water movement Too steep for surface application Ontusia 5% Depth to saturated zone Slow water movement Too acid
162C	Willdin channery silt loam, 8 to 15 percent slopes	Very limited	Willdin 85% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Ontusia 6% Depth to saturated zone Slow water movement Too steep for surface application Too acid Lewbath 6% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Depth to saturated zone Middlebrook 3% Depth to saturated zone Too steep for surface application Depth to bedrock Too acid Too steep for sprinkler irrigation

# Slow Rate Treatment of Wastewater

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
162D	Willdin channery silt loam, 15 to 25 percent slopes	Very limited	Willdin 80% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Lewbath 10% Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Depth to saturated zone Mongaup 5% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Ontusia 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid
168A	Ontusia channery silt loam, 0 to 3 percent slopes	Very limited	Ontusia 88% Depth to saturated zone Slow water movement Too acid Willdin 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application Cobble content Norchip 5% Depth to saturated zone Slow water movement Too acid Greter 2% Depth to saturated zone Depth to bedrock Slow water movement Too acid Cobble content
168B	Ontusia channery silt loam, 3 to 8 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Slow water movement Too steep for surface application Too acid Norchip 5% Depth to saturated zone Slow water movement Too acid Willdin 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid

# Slow Rate Treatment of Wastewater

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
168C	Ontusia channery silt loam, 8 to 15 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Too acid Norchip 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application Willdin 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid
168D	Ontusia channery silt loam, 15 to 25 percent slopes	Very limited	Ontusia 90% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Willdin 7% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Norchip 3% Depth to saturated zone Slow water movement Too acid Too steep for surface application

# Slow Rate Treatment of Wastewater

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	<p>Lordstown, very stony 40%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Depth to bedrock</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> </ul> <p>Towerville, very stony 20%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Depth to bedrock</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> </ul> <p>Manlius, very stony 20%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Depth to bedrock</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Cadosia, very stony 10%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Mardin, very stony 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Slow water movement</li> <li>Too steep for sprinkler irrigation</li> <li>Cobble content</li> </ul> <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> <li>Depth to bedrock</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul>

# Slow Rate Treatment of Wastewater

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
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	<p>Lordstown, very stony 40%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Manlius, very stony 20%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Towerville, very stony 20%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Cadosia, very stony 10%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> <li>Depth to bedrock</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Mardin 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Slow water movement</li> <li>Too steep for sprinkler irrigation</li> <li>Cobble content</li> </ul>



# Slow Rate Treatment of Wastewater

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"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Arnot, very stony 5%</p> <ul style="list-style-type: none"> <li>Depth to bedrock</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Mardin, extremely stony 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Slow water movement</li> <li>Too acid</li> </ul>

# Slow Rate Treatment of Wastewater

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
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"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Towerville, extremely stony 20%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> </ul> <p>Manlius, extremely stony 20%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Depth to bedrock</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Annot, extremely stony 10%</p> <ul style="list-style-type: none"> <li>Depth to bedrock</li> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul> <p>Cadosia, extremely stony 10%</p> <ul style="list-style-type: none"> <li>Too steep for surface application</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> <li>Cobble content</li> </ul>
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	<p>Norchip 85%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too acid</li> </ul> <p>Norchip, very poorly drained 10%</p> <ul style="list-style-type: none"> <li>Ponding</li> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too acid</li> </ul> <p>Ontusia 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too steep for surface application</li> <li>Too acid</li> </ul>
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	<p>Norchip 85%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too acid</li> <li>Too steep for surface application</li> </ul> <p>Norchip, very poorly drained 10%</p> <ul style="list-style-type: none"> <li>Ponding</li> <li>Depth to saturated zone</li> <li>Slow water movement</li> <li>Too acid</li> </ul> <p>Ontusia 5%</p> <ul style="list-style-type: none"> <li>Depth to saturated zone</li> <li>Too steep for surface application</li> <li>Slow water movement</li> <li>Too steep for sprinkler irrigation</li> <li>Too acid</li> </ul>

# Slow Rate Treatment of Wastewater

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
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Very limited	Mongaup 45% Depth to bedrock Too acid Too steep for surface application Cobble content Ischua 40% Depth to saturated zone Depth to bedrock Too acid Slow water movement Too steep for surface application Rockrift 10% Too acid Too steep for surface application Cobble content Willdin 3% Depth to saturated zone Slow water movement Too acid Too steep for surface application Cobble content Greter 2% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Too acid
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Very limited	Mongaup 45% Too steep for surface application Depth to bedrock Too acid Too steep for sprinkler irrigation Cobble content Ischua 40% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Too acid Rockrift 10% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Greter 2% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement

# Slow Rate Treatment of Wastewater

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
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Cobble content Ischua, very stony 40% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Rockrft 10% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Greter 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Cobble content Ischua, extremely stony 40% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Too acid Rockrft 10% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Greter 2% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement

# Slow Rate Treatment of Wastewater

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
182B	Mongaup channery loam, 3 to 8 percent slopes	Very limited	Mongaup 75% Depth to bedrock Too steep for surface application Cobble content Rockrift 10% Too acid Too steep for surface application Cobble content Willdin 8% Depth to saturated zone Slow water movement Too acid Too steep for surface application Cobble content Ischua 5% Depth to saturated zone Depth to bedrock Too acid Slow water movement Too steep for surface application Gretor 2% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Too acid
182C	Mongaup channery loam, 8 to 15 percent slopes	Very limited	Mongaup 75% Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Cobble content Rockrift 10% Too steep for surface application Too steep for sprinkler irrigation Too acid Cobble content Willdin 8% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Ischua 5% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Too acid Gretor 2% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement

# Slow Rate Treatment of Wastewater

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
201A	Lima loam, 0 to 3 percent slopes	Very limited	Lima 85% Depth to saturated zone Seepage, porous bedrock Kendaia 3% Depth to saturated zone Seepage, porous bedrock Too acid Appleton 3% Depth to saturated zone Seepage, porous bedrock Cazenovia 2% Depth to saturated zone Slow water movement Lyons 2% Depth to saturated zone Slow water movement Seepage, porous bedrock
201B	Lima loam, 3 to 8 percent slopes	Very limited	Lima 85% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Kendaia 3% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Appleton 3% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Cazenovia 2% Depth to saturated zone Slow water movement Too steep for surface application Lyons 1% Depth to saturated zone Slow water movement Too steep for surface application Seepage, porous bedrock

# Slow Rate Treatment of Wastewater

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
201C	Lima loam, 8 to 15 percent slopes	Very limited	Lima 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Honeoye 7% Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Appleton 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Kendaia 3% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Seepage, porous bedrock Too acid Cazenovia 2% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation
204A	Lima loam, 0 to 3 percent slopes, lower clay surface	Very limited	Lima 85% Depth to saturated zone Seepage, porous bedrock Appleton 3% Depth to saturated zone Seepage, porous bedrock Kendaia 3% Depth to saturated zone Seepage, porous bedrock Too acid Lyons 2% Depth to saturated zone Slow water movement Seepage, porous bedrock Cazenovia 2% Depth to saturated zone Slow water movement

# Slow Rate Treatment of Wastewater

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
204B	Lima loam, 3 to 8 percent slopes, lower clay surface	Very limited	Lima 85% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Appleton 3% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Kendaia 3% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Cazenovia 2% Depth to saturated zone Slow water movement Too steep for surface application Lyons 1% Depth to saturated zone Slow water movement Too steep for surface application Seepage, porous bedrock
210A	Phelps gravelly silt loam, 0 to 3 percent slopes	Very limited	Phelps 85% Depth to saturated zone Galen 10% Depth to saturated zone Too acid Homer 5% Filtering capacity Depth to saturated zone
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Depth to saturated zone Too steep for surface application Galen 10% Depth to saturated zone Too steep for surface application Too acid Homer 5% Filtering capacity Depth to saturated zone Too steep for surface application
212A	Nuhi silt loam, 0 to 3 percent slopes	Very limited	Nuhi 85% Depth to saturated zone Depth to bedrock Slow water movement Farmington 10% Depth to bedrock Too acid Nuhi, poorly drained 5% Depth to saturated zone Depth to bedrock Slow water movement



# Slow Rate Treatment of Wastewater

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
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Very limited	Aurora 60% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Angola 30% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Danley 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid Darien 5% Depth to saturated zone Slow water movement Too acid Too steep for surface application
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement Angola 30% Depth to saturated zone Too steep for surface application Depth to bedrock Slow water movement Too steep for sprinkler irrigation Darien 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Danley 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid

# Slow Rate Treatment of Wastewater

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% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Angola 30% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Darien 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Danley 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid
241B	Aurora silt loam, 3 to 8 percent slopes	Very limited	Aurora 85% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Angola 10% Depth to saturated zone Depth to bedrock Slow water movement Too steep for surface application Danley 5% Depth to saturated zone Slow water movement Too steep for surface application Too acid
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement Angola 8% Depth to saturated zone Too steep for surface application Depth to bedrock Too steep for sprinkler irrigation Slow water movement Danley 7% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid

# Slow Rate Treatment of Wastewater

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
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement Danley 10% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Too acid Angola 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Depth to bedrock Slow water movement
255B	Cazenovia silt loam, 3 to 8 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Slow water movement Too steep for surface application Ovid 10% Depth to saturated zone Slow water movement Too steep for surface application Cayuga 5% Depth to saturated zone Slow water movement Too steep for surface application
255C	Cazenovia silt loam, 8 to 15 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Cayuga 8% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Ovid 7% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement
255D	Cazenovia silt loam, 15 to 25 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Cayuga 10% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Ovid 5% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation

# Slow Rate Treatment of Wastewater

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
260B	Cayuga silt loam, 3 to 8 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Slow water movement Too steep for surface application Schoharie 10% Depth to saturated zone Slow water movement Too steep for surface application Odessa 5% Depth to saturated zone Slow water movement Too steep for surface application
260C	Cayuga silt loam, 8 to 15 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Schoharie 10% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Odessa 5% Depth to saturated zone Slow water movement Too steep for surface application Too steep for sprinkler irrigation
260D	Cayuga silt loam, 15 to 25 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement Lansing 10% Too steep for surface application Too steep for sprinkler irrigation Too acid Seepage, porous bedrock Schoharie 5% Depth to saturated zone Too steep for surface application Too steep for sprinkler irrigation Slow water movement
304A	Kendaia loam, 0 to 3 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Seepage, porous bedrock Too acid Lima 6% Depth to saturated zone Seepage, porous bedrock Lyons 5% Depth to saturated zone Slow water movement Seepage, porous bedrock Ovid 2% Depth to saturated zone Slow water movement Churchville 2% Depth to saturated zone Slow water movement

# Slow Rate Treatment of Wastewater

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
304B	Kendaia loam, 3 to 8 percent slopes	Very limited	Kendaia 85% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Too acid Lima 7% Depth to saturated zone Too steep for surface application Seepage, porous bedrock Lyons 4% Depth to saturated zone Slow water movement Seepage, porous bedrock Too steep for surface application Churchville 2% Depth to saturated zone Slow water movement Too steep for surface application Ovid 2% Depth to saturated zone Slow water movement Too steep for surface application
342A	Angola silt loam, 0 to 3 percent slopes	Very limited	Angola 90% Depth to saturated zone Depth to bedrock Slow water movement Darien 5% Depth to saturated zone Slow water movement Too acid Ilion 5% Depth to saturated zone Slow water movement Too acid
356A	Ovid silt loam, 0 to 3 percent slopes	Very limited	Ovid 85% Depth to saturated zone Slow water movement Odessa 10% Depth to saturated zone Slow water movement Lakemont 5% Depth to saturated zone Slow water movement Too acid
356B	Ovid silt loam, 3 to 8 percent slopes	Very limited	Ovid 85% Depth to saturated zone Slow water movement Too steep for surface application Odessa 10% Depth to saturated zone Slow water movement Too steep for surface application Lakemont 5% Depth to saturated zone Slow water movement Too acid

# Slow Rate Treatment of Wastewater

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
357B	Ovid silty clay loam, 3 to 8 percent slopes	Very limited	Ovid 85% Depth to saturated zone Slow water movement Too steep for surface application Odessa 10% Depth to saturated zone Slow water movement Too steep for surface application Lakemont 5% Depth to saturated zone Slow water movement Too acid
357C	Ovid silty clay loam, 8 to 15 percent slopes	Very limited	Ovid 85% Depth to saturated zone Too steep for surface application Slow water movement Too steep for sprinkler irrigation Odessa 10% Depth to saturated zone Slow water movement Too steep for surface application Too steep for sprinkler irrigation Lakemont 5% Depth to saturated zone Slow water movement Too acid
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%

# Slow Rate Treatment of Wastewater

## Rating Options

Attribute Name: Slow Rate Treatment of Wastewater

Slow rate treatment of wastewater is a process in which wastewater is applied to land at a rate normally between 0.5 inch and 4.0 inches per week. The application rate commonly exceeds the rate needed for irrigation of cropland. The applied wastewater is treated as it moves through the soil. Much of the treated water may percolate to the ground water, and some enters the atmosphere through evapotranspiration. The applied water generally is not allowed to run off the surface. Waterlogging is prevented either through control of the application rate or through the use of tile drains, or both.

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 absorption, plant growth, microbial activity, erodibility, and the application of waste. The properties that affect absorption include the sodium adsorption ratio, depth to a water table, ponding, available water capacity, saturated hydraulic conductivity (Ksat), depth to bedrock or a cemented pan, reaction, the cation-exchange capacity, and slope. Reaction, the sodium adsorption ratio, salinity, and bulk density affect plant growth and microbial activity. The wind erodibility group, soil erosion factor K, and slope are considered in estimating the likelihood of wind erosion or water erosion. Stones, cobbles, a water table, ponding, and flooding can hinder the application of waste. 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.

## Slow Rate Treatment of Wastewater

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 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.