

# FARLEY SEWER SYSTEMS

SEWER DESIGN & INSTALLATION

JAROLD R. FARLEY

P.O. Box 472  
McGregor, MN 55760

Bus. Lic. No. L1919  
Reg. No. 4744

218-839-4737 cell

This is the Farthest  
North 5 acres of 35-0-017800  
Which is currently 13 Acres.

Sewer sites for  
a Lot Line adjustment

Parcel A

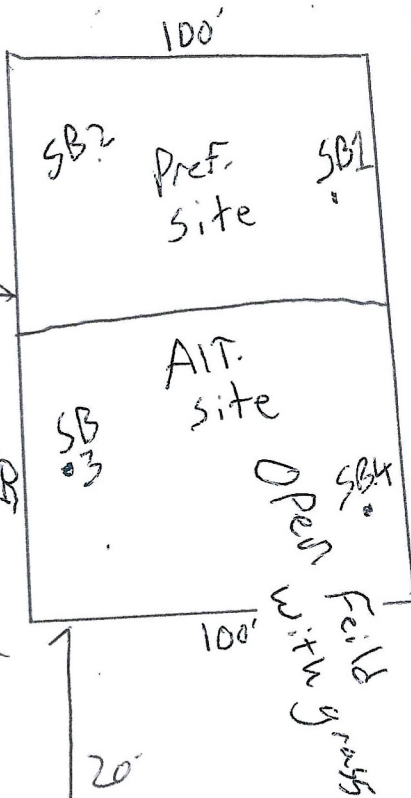
No Well on Parcel A

Woods

Woods

drive way

US Hwy 169



North

# Sewer Site's For the Furthest North Parcel Soil Observation Log

Parcel A

## Owner Information

Property Owner / project: Dennis & Rose Petrick Date 5/2/2024  
 Property Address / PID: 50417 US Hwy. 169, Palisade MN.

## Soil Survey Information refer to attached soil survey

Parent matl's:  Till  Outwash  Lacustrine  Alluvium  Organic  Bedrock  
 landscape position:  Summit  Shoulder  Side slope  Toe slope  
 soil survey map units: \_\_\_\_\_ slope 0-1 % direction- downhill

## Soil Log #1

|            |               | <input checked="" type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ |  | Depth to SHWT _____                        |  |
|------------|---------------|--|------------------------------|-----------------|--|--|--|
| Depth (in) | Texture       | fragment %                                 | matrix color                 | redox color     | consistence                              | grade                                      | shape  |
| 0-5"       | top soil loam | <u>&lt;35</u><br>35 - 50<br>>50            | 10 yr 3/2                    |                 | loose<br><u>friable</u><br>firm<br>rigid | loose<br><u>weak</u><br>moderate<br>strong | single grain<br><u>granular blocky</u><br>prismatic platy<br>massive |
| 5-14"      | sandy loam    | <u>&lt;35</u><br>35 - 50<br>>50            | 10 yr 4/6                    |                 | <u>loose</u><br>friable<br>firm<br>rigid | <u>loose</u><br>weak<br>moderate<br>strong | <u>single grain</u><br>granular blocky<br>prismatic platy<br>massive |
| 14"        |               | <35<br>35 - 50<br>>50                      |                              | 7.5 yr 4/6      | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|            |               | <35<br>35 - 50<br>>50                      |                              |                 | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|            |               | <35<br>35 - 50<br>>50                      |                              |                 | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |

Comments:

50417 US Hwy. 169, Palisade MN.

**Soil Log #2**

|            |            | <input type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ |                                   | Depth to SHWT _____                 |   |  |
|------------|------------|---------------------------------|------------------------------|-----------------|-----------------------------------|-------------------------------------|---|--|
| Depth (in) | Texture    | fragment %                      | matrix color                 | redox color     | consistence                       | grade                               | shape   |  |
| 0-5"       | top soil   | <35<br>35 - 50<br>>50           | 10 yr 3/2                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
| 5-13"      | sandy loam | <35<br>35 - 50<br>>50           | 10 yr 4/6                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
| 13"        |            | <35<br>35 - 50<br>>50           |                              | 7.5 yr 4/6      | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |

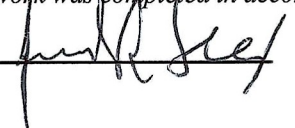
50417 US Hwy. 169, Palisade MN.

**Soil Log #3**

|            |            | <input type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ |                                   | Depth to SHWT _____                 |   |  |
|------------|------------|---------------------------------|------------------------------|-----------------|-----------------------------------|-------------------------------------|---|--|
| Depth (in) | Texture    | fragment %                      | matrix color                 | redox color     | consistence                       | grade                               | shape   |  |
| 0-6"       | top soil   | <35<br>35 - 50<br>>50           | 10 yr 3/2                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
| 6-14"      | sandy loam | <35<br>35 - 50<br>>50           | 10 yr 4/4                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
| 14"        |            | <35<br>35 - 50<br>>50           |                              | 7.5 yr 4/6      | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |  |

I hereby certify this work was completed in accordance with MN 7080 and any local req's.

Jarold R. Farley  
Designer Signature



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LUG soil verify Signature

+

Lug media elev/depth Signature

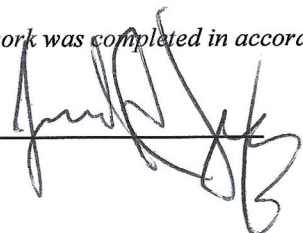
= Soil Separaton Report

| 50417 US Hwy. 169, Palisade MN. Soil Log #4 |            |                                 |                              |                 |                                   |                                     |   |
|---|------------|---------------------------------|------------------------------|-----------------|-----------------------------------|-------------------------------------|---|
|   |            | <input type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ | Depth to SHWT _____               |                                     |   |
| Depth (in)                                  | Texture    | fragment %                      | matrix color                 | redox color     | consistence                       | grade                               | shape   |
| 0-4"  | top soil   | <35<br>35 - 50<br>>50           | 10 yr 3/2                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
| 4-13"                                       | sandy loam | <35<br>35 - 50<br>>50           | 10 yr 4/4                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
| 13"   |            | <35<br>35 - 50<br>>50           |                              | 7.5 yr 4/6      | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|   |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|   |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |

| 50417 US Hwy. 169, Palisade MN. Soil Log #5 |         |                                 |                              |                 |                                   |                                     |   |
|---|---------|---------------------------------|------------------------------|-----------------|-----------------------------------|-------------------------------------|---|
|   |         | <input type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ | Depth to SHWT _____               |                                     |   |
| Depth (in)                                  | Texture | fragment %                      | matrix color                 | redox color     | consistence                       | grade                               | shape   |
|   |         | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|   |         | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|   |         | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|   |         | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|   |         | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |

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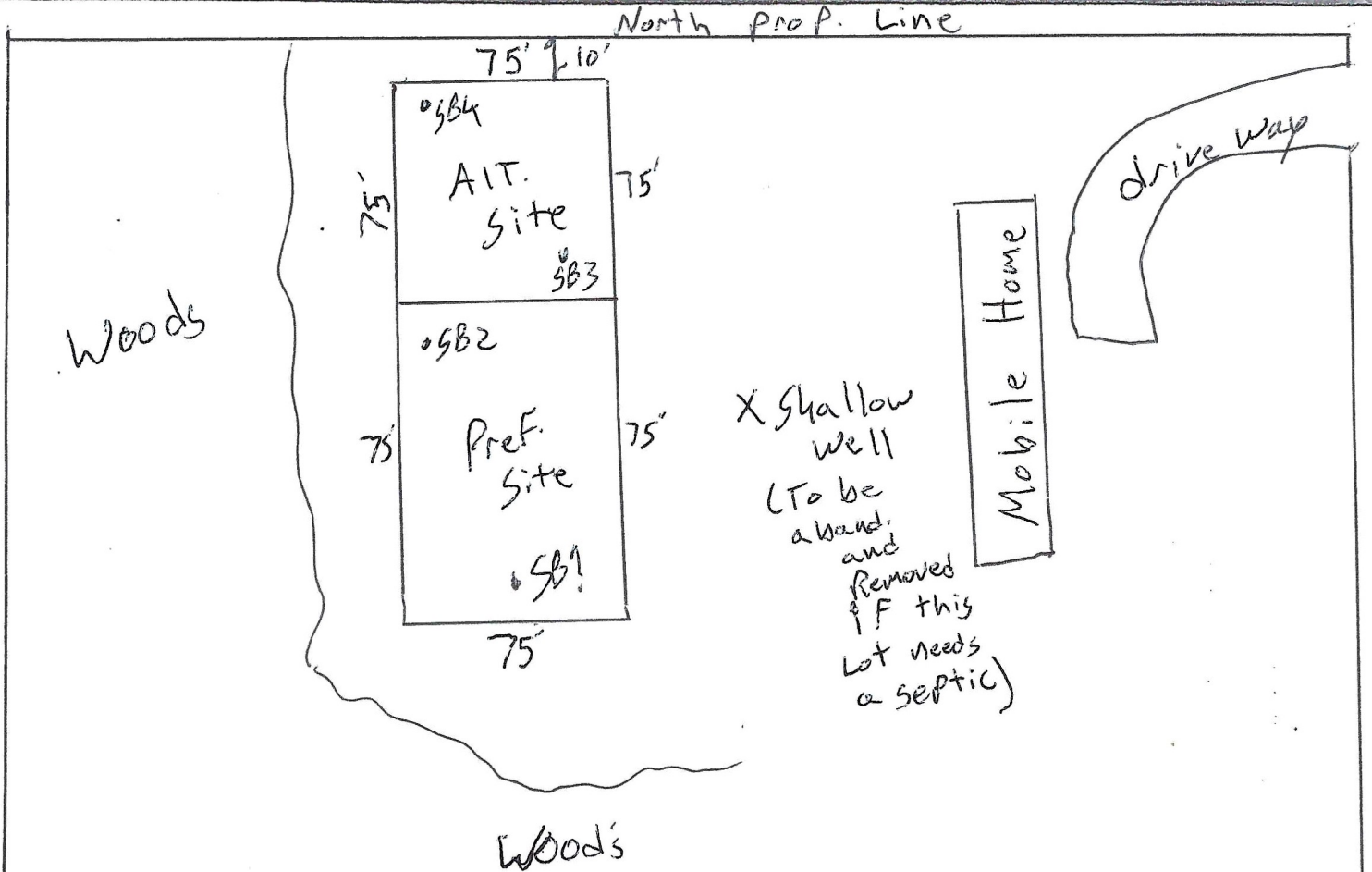
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Parcel B

The South and Remaining Parcel  
of 35-0-017800

Sewer Sites For the Remaining South portion of 350-0178000

# Soil Observation Log

Parcel B

| Owner Information         |  |                      |
|---------------------------|--|----------------------|
| Property Owner / project: | <u>Dennis &amp; Rose Petrick</u>       | Date <u>5/2/2024</u> |
| Property Address / PID:   | <u>50417 US Hwy. 169, Palisade MN.</u> |                      |

| Soil Survey Information |   | <input type="checkbox"/> refer to attached soil survey |
|-------------------------|---|--|
| Parent matl's:          | <input checked="" type="checkbox"/> Till <input type="checkbox"/> Outwash <input type="checkbox"/> Lacustrine <input type="checkbox"/> Alluvium <input type="checkbox"/> Organic <input type="checkbox"/> Bedrock |  |
| landscape position:     | <input checked="" type="checkbox"/> Summit <input type="checkbox"/> Shoulder <input type="checkbox"/> Side slope <input type="checkbox"/> Toe slope   |  |
| soil survey map units:  | _____ slope <u>0-1</u> % direction- <u>downhill</u>   |  |

| Soil Log #1 |               |  |                              |                 |  |  |  |
|-------------|---------------|--|------------------------------|-----------------|--|--|--|
|             |               | <input checked="" type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ |  | Depth to SHWT _____                        |  |
| Depth (in)  | Texture       | fragment %                                 | matrix color                 | redox color     | consistence                              | grade                                      | shape  |
| 0-5"        | top soil loam | <u>&lt;35</u><br>35 - 50<br>>50            | 10 yr 3/2                    |                 | loose<br><u>friable</u><br>firm<br>rigid | loose<br><u>weak</u><br>moderate<br>strong | single grain<br><u>granular blocky</u><br>prismatic platy<br>massive |
| 5-14"       | sandy loam    | <u>&lt;35</u><br>35 - 50<br>>50            | 10 yr 4/6                    |                 | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|             |               | <35<br>35 - 50<br>>50                      |                              |                 | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|             |               | <35<br>35 - 50<br>>50                      |                              |                 | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|             |               | <35<br>35 - 50<br>>50                      |                              |                 | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |

Comments:

50417 US Hwy. 169, Palisade MN.

**Soil Log #2**

|            |            | <input type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ |                                   | Depth to SHWT _____                 |   |
|------------|------------|---------------------------------|------------------------------|-----------------|-----------------------------------|-------------------------------------|---|
| Depth (in) | Texture    | fragment %                      | matrix color                 | redox color     | consistence                       | grade                               | shape   |
| 0-5"       | top soil   | <35<br>35 - 50<br>>50           | 10 yr 3/2                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
| 5-13"      | sandy loam | <35<br>35 - 50<br>>50           | 10 yr 4/6                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |

50417 US Hwy. 169, Palisade MN.

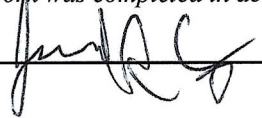
**Soil Log #3**

|            |            | <input type="checkbox"/> Boring | <input type="checkbox"/> Pit | Elevation _____ |                                   | Depth to SHWT _____                 |   |
|------------|------------|---------------------------------|------------------------------|-----------------|-----------------------------------|-------------------------------------|---|
| Depth (in) | Texture    | fragment %                      | matrix color                 | redox color     | consistence                       | grade                               | shape   |
| 0-4"       | top soil   | <35<br>35 - 50<br>>50           | 10 yr 3/2                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
| 4-16"      | sandy loam | <35<br>35 - 50<br>>50           | 10 yr 4/4                    |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|            |            | <35<br>35 - 50<br>>50           |                              |                 | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |

I hereby certify this work was completed in accordance with MN 7080 and any local req's.

Jarold R. Farley

Designer Signature



Farley sewer systems

Company

L-1919

License #

LUG soil verify Signature

+

Lug media elev/depth Signature

= Soil Separaton Report

50417 US Hwy. 169, Palisade MN.

**Soil Log #4**

| <input checked="" type="checkbox"/> Boring <input type="checkbox"/> Pit |            | Elevation _____                 |              | Depth to SHWT _____ |  |  |  |
|---|------------|---------------------------------|--------------|---------------------|--|--|--|
| Depth (in)  | Texture    | fragment %                      | matrix color | redox color         | consistence                              | grade                                      | shape  |
| 0-5"  | top soil   | <u>&lt;35</u><br>35 - 50<br>>50 | 10 yr 3/2    |                     | loose<br><u>friable</u><br>firm<br>rigid | loose<br><u>weak</u><br>moderate<br>strong | single grain<br><u>granular blocky</u><br>prismatic platy<br>massive |
| 5-15"   | sandy loam | <u>&lt;35</u><br>35 - 50<br>>50 | 10 yr 4/4    |                     | loose<br><u>friable</u><br>firm<br>rigid | loose<br><u>weak</u><br>moderate<br>strong | single grain<br><u>granular blocky</u><br>prismatic platy<br>massive |
|   |            | <35<br>35 - 50<br>>50           |              |                     | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|   |            | <35<br>35 - 50<br>>50           |              |                     | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |
|   |            | <35<br>35 - 50<br>>50           |              |                     | loose<br>friable<br>firm<br>rigid        | loose<br>weak<br>moderate<br>strong        | single grain<br>granular blocky<br>prismatic platy<br>massive        |

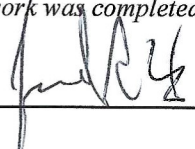
50417 US Hwy. 169, Palisade MN.

**Soil Log #5**

| <input type="checkbox"/> Boring <input type="checkbox"/> Pit |         | Elevation _____       |              | Depth to SHWT _____ |                                   |                                     |   |
|--|---------|-----------------------|--------------|---------------------|-----------------------------------|-------------------------------------|---|
| Depth (in)   | Texture | fragment %            | matrix color | redox color         | consistence                       | grade                               | shape   |
|  |         | <35<br>35 - 50<br>>50 |              |                     | loose<br>firm<br>rigid            | loose<br>moderate<br>strong         | single grain<br>granular blocky<br>prismatic platy<br>massive |
|  |         | <35<br>35 - 50<br>>50 |              |                     | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|  |         | <35<br>35 - 50<br>>50 |              |                     | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|  |         | <35<br>35 - 50<br>>50 |              |                     | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |
|  |         | <35<br>35 - 50<br>>50 |              |                     | loose<br>friable<br>firm<br>rigid | loose<br>weak<br>moderate<br>strong | single grain<br>granular blocky<br>prismatic platy<br>massive |

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