



| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: R-01 | | | |
|--|-----------------------|--------------|---------------------------------|---------------------------------|---------------------|---------------------|------------|---------|-------------------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.13225 | Longitude: -92.492702 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Oryza sativa - Cultivated Rice (Stubble) | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0 - 1 | Abundant | Effective Root Zone | | | |
| | | | | 1-3 | Many | | | | |
| | | | | 3-6 | Common | | | | |
| | | | | 6-9 | Sparse | | | | |
| | | | | 9-20 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Crowley silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-6.5 | 10YR 4/2 | 70 | 10YR 4/6 | 30 | C | M | Silt loam | Ap | 0.75 |
| 6.5-9 | 10YR 5/2 | 100 | | | | | Silty clay | E | < 0.70 |
| 9-20 | 10YR 6/2 | 80 | 10YR 5/8 | 20 | C | M | Silty clay | Bt | Fe-Mn concretions |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow pan | | depth (inches): | 6 | | | | |
| Remarks: | | | | | | | | | |
| 1. Surface water depth: 12 inches 2. Rice stubble height: 14 inches | | | | | | | | | |

GASTAL PROPERTY
SECTION 32, TOWNSHIP 10 SOUTH, RANGE 01 WEST
ACADIA PARISH, LOUISIANA



GASTAL PROPERTY
SECTION 32, TOWNSHIP 10 SOUTH, RANGE 01 WEST
ACADIA PARISH, LOUISIANA





| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: R-02 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.13262 | Longitude: -92.49219 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Oryza sativa - Cultivated Rice (Stubble) | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0 - 1 | Abundant | Effective Root Zone | | | |
| | | | | 1-3 | Many | | | | |
| | | | | 3-6 | Common | | | | |
| | | | | 6-9 | Sparse | | | | |
| | | | | 9-19 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Crowley-Midland silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-6 | 10YR 5/2 | 70 | 10YR 4/6 | 30 | C | M | Silt loam | Ap | 0.75 |
| 6-8 | 10YR 5/1 | 100 | | | | | Silty clay | E | < 0.70 |
| 8-19 | 10YR 6/2 | 80 | 10YR 6/6 | 20 | C | M | Silty clay | Bt | Increase Clay Content, Fe & Mn Cresions |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow pan | | Depth (inches): | 6 | | | | |
| Remarks: | | | | | | | | | |
| 1. Surface water depth: 11.5 inches 2. Rice stubble height: 15 inches | | | | | | | | | |

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ACADIA PARISH, LOUISIANA



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ACADIA PARISH, LOUISIANA





| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: R-03 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.13028 | Longitude: -92.49121 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Oryza sativa - Cultivated Rice (Stubble) | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0 - 1.5 | Abundant | Effective Root Zone | | | |
| | | | | 1.5-3.5 | Many | | | | |
| | | | | 3.5-7 | Common | | | | |
| | | | | 7-9 | Sparse | | | | |
| | | | | 9-16 | Very Sparse to None | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-6.5 | 10YR 5/2 | 70 | 10YR 4/6 | 30 | C | M | Silt loam | Ap | 0.75 |
| 6.5-16 | 10YR 5/2 | 100 | | | | | Silty clay | Bt | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow pan | Depth (inches): | 7 | | | | | |
| Remarks: | | | | | | | | | |
| 1. Surface water depth: 12.5 inches 2. Rice stubble height: 17 inches | | | | | | | | | |

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ACADIA PARISH, LOUISIANA





| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: R-04 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.129505 | Longitude: -92.49129 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Oryza sativa - Cultivated Rice (Stubble) | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0-1 | Abundant | Effective Root Zone | | | |
| | | | | 1-3 | Many | | | | |
| | | | | 3-6 | Common | | | | |
| | | | | 6-8 | Sparse | | | | |
| | | | | 8-18 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-6 | 10YR 5/2 | 80 | 10YR 4/6 | 20 | C | M | Silt loam | Ap | 0.75 |
| 6-18 | 10YR 4/2 | 80 | 10YR 6/8 | 20 | C | M | Silty clay | Bt | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow pan | Depth (inches): | 7 | | | | | |
| Remarks: 1. Surface water depth: 11 inches 2. Rice stubble height: 17 inches | | | | | | | | | |

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GASTAL PROPERTY
SECTION 32, TOWNSHIP 10 SOUTH, RANGE 01 WEST
ACADIA PARISH, LOUISIANA





| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: R-05 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.12842 | Longitude: -92.49182 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Oryza sativa - Cultivated Rice (Stubble) | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0-1.5 | Abundant | Effective Root Zone | | | |
| | | | | 1.5-3.5 | Many | | | | |
| | | | | 3.5-6 | Common | | | | |
| | | | | 6-9 | Sparse | | | | |
| | | | | 9-19 | Very Sparse to None | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-6 | 10YR 5/2 | 80 | 10YR 5/8 | 20 | C | M | Silt loam | Ap | 0.75 |
| 6-19 | 10YR 4/2 | 80 | 10YR 6/8 | 20 | C | M | Silty clay | Bt | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow pan | Depth (inches): | 7 | | | | | |
| Remarks: | | | | | | | | | |
| 1. Surface water depth: 12 inches 2. Rice stubble height: 14 inches | | | | | | | | | |

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ACADIA PARISH, LOUISIANA





| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: H-01 | | | |
|---|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.12884 | Longitude: -92.49302 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Juncus sp. - Rush species | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0-2 | Abundant | Effective Root Zone | | | |
| | | | | 2-4 | Many | | | | |
| | | | | 4-9 | Common | | | | |
| | | | | 9-14 | Sparse | | | | |
| | | | | 14-24 | Very Sparse to None | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-10 | 10YR 5/2 | 70 | 5YR 3/4 | 30 | C | M | Silt loam | Ap | 0.75 |
| 10-24 | 10YR 4/1 | 60 | 10YR 5/4 | 40 | C | M | Silty clay | Bt | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow Pan | Depth (inches): | 7 | | | | | |
| Remarks: | | | | | | | | | |
| 1. Surface water depth: .5 inches, saturated soil | | | | | | | | | |
| 2. Hand auger depth: 12-24 inches | | | | | | | | | |

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| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: H-02 | | | |
|---|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.128846 | Longitude: -92.49305 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Panicum capillare - Common Panic Grass | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0-2 | Abundant | Effective Root Zone | | | |
| | | | | 2-4 | Many | | | | |
| | | | | 4-8 | Common | | | | |
| | | | | 8-11 | Sparse | | | | |
| | | | | 11-24 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-10 | 10YR 5/2 | 70 | 5YR 3/4 | 30 | C | M | Silt loam | Ap | 0.75 |
| 10-24 | 10YR 4/1 | 60 | 10YR 5/4 | 40 | C | M | Silty clay | Bt | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow Pan | Depth (inches): | 7 | | | | | |
| Remarks: | | | | | | | | | |
| 1. Surface water depth: .5 inches, saturated soil 2. Hand auger depth: 15-24 inches 3. 0-2" layer of super saturated silt | | | | | | | | | |

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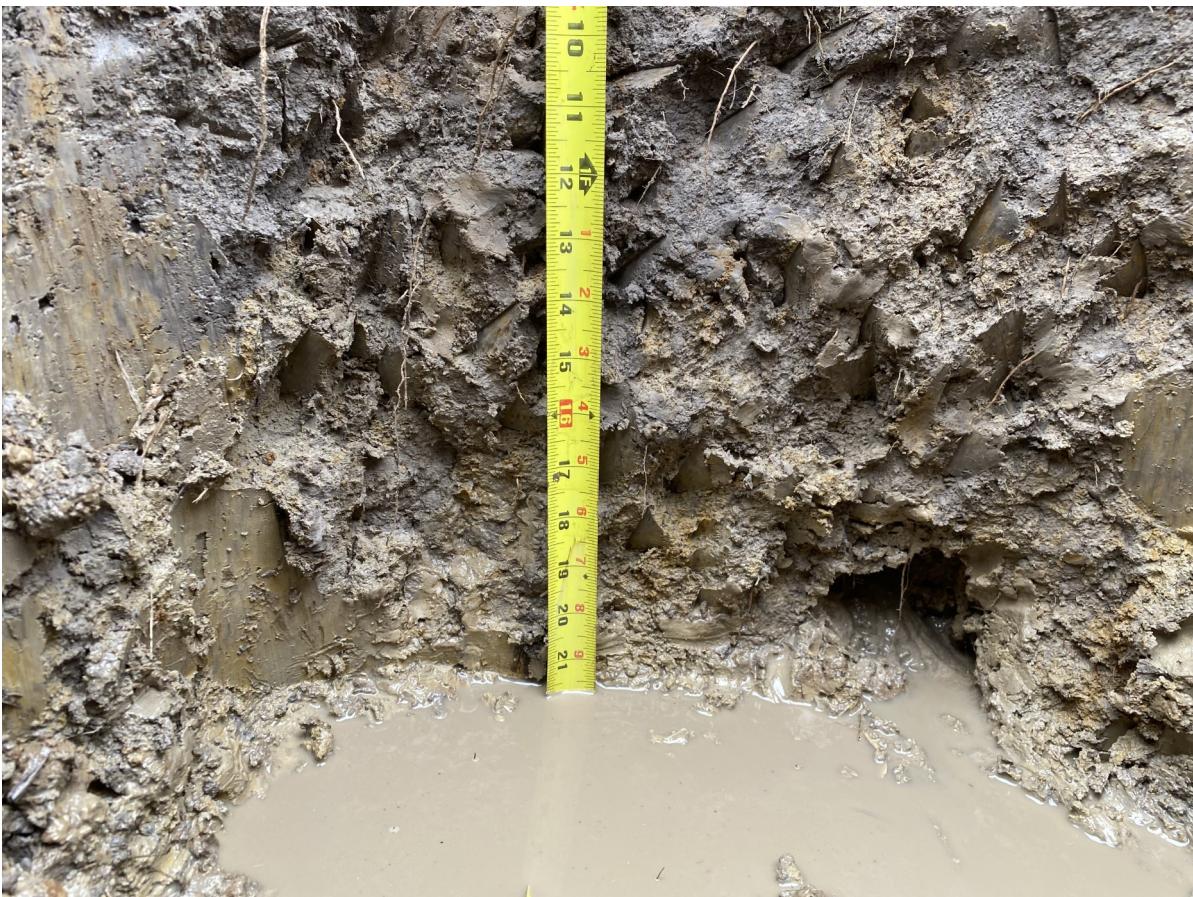


| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: H-03 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.129906 | Longitude: -92.49312 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Cynodon dactylon - Bermuda Grass | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0-2 | Abundant | Effective Root Zone | | | |
| | | | | 2-5 | Many | | | | |
| | | | | 5-9 | Common | | | | |
| | | | | 9-12 | Sparse | | | | |
| | | | | 12-22 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-7.5 | 10YR 5/2 | 70 | 5YR 3/4 | 30 | C | M | Silt loam | Ap | 0.75 |
| 7.5-17 | 10YR 4/2 | 100 | | | | | Silty clay | Bt1 | < 0.70 |
| 17-22 | 10YR 4/6 | 60 | 10YR 4/6 | 40 | C | M | Silty clay | Bt2 | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow Pan | Depth (inches): | 7 | | | | | |
| Remarks: 1. Saturated soil 2. 20 inches long x 20 inches wide x 24 inches deep trench, 2 inches of water at bottom of trench | | | | | | | | | |

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| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: H-04 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|---------|-------------------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.12977 | Longitude: -92.49591 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Cynodon dactylon - Bermuda Grass | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| | | | | 0-1.5 | Abundant | Effective Root Zone | | | |
| | | | | 1.5-5 | Many | | | | |
| | | | | 5-9 | Common | | | | |
| | | | | 9-13 | Sparse | | | | |
| | | | | 13-22 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Crowley silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-7 | 10YR 5/2 | 100 | | | | Silt loam | Ap | | 0.75 |
| 7-22 | 10YR 6/2 | 100 | | | | Silty clay | Bt | Fe-Mn concretions | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow Pan | Depth (inches): | 7 | | | | | |
| Remarks: 1. Water filled up to surface of plant removal trench 2. Hand auger depth: 14-22 inches | | | | | | | | | |

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ACADIA PARISH, LOUISIANA





| State: LA | Parish: Acadia | Section: 32 | Township: 10S | Range: 01W | Date: 1/28/25 | Location: S-01 | | | |
|--|----------------------|--------------|---------------------------------|--------------------------|---------------------|---------------------|------------|---------|---------|
| Project/Site: Gastal (1705.A37) | | | Investigator(s): Matthew Greene | | | | | | |
| Latitude: 30.12975 | Longitude: -92.49315 | Datum: NAD83 | | Other Info: | | | | | |
| HERBACEOUS SPECIES- [plot size = 5 feet radius] | | | | ROOT ZONE INTERPRETATION | | | | | |
| Baccharis halimifolia - Groundsel tree | | | | Depth BLS (Inches) | Root Mass Abundance | Remarks | | | |
| Chloracantha spinosa - Mexican Devilweed | | | | 0-2 | Abundant | Effective Root Zone | | | |
| | | | | 2-4 | Many | | | | |
| | | | | 4-10 | Common | | | | |
| | | | | 10-13 | Sparse | | | | |
| | | | | 13-28 | Very Sparse to None | | | | |
| SOIL PROFILE PROPERTIES | | | | | | | | | |
| Soil Type: Mowata silt loam | | | | | | | | | |
| Depth BLS (inches) | Matrix | | Redox Features | | | Texture | Horizon | Remarks | N-Value |
| | Color (moist) | % | Color (moist) | % | Type | | | | |
| 0-6 | 10YR 5/2 | 70 | 5YR 3/4 | 30 | C | M | Silt loam | Ap | 0.75 |
| 6-12 | 10YR 4/2 | 100 | | | | | Silty clay | Bt1 | < 0.70 |
| 12-28 | 10YR 6/3 | 60 | 10YR 4/6 | 40 | C | M | Silty clay | Bt2 | < 0.70 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Additional Colors: | | | | | | | | | |
| Restrictive Layer(if observed): | Type: | Plow Pan | Depth (inches): | 7 | | | | | |
| Remarks: | | | | | | | | | |
| 1. Water depth: .5 inches 2. Hand auger depth: 19-28 inches | | | | | | | | | |

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