

APPENDIX B
COMPLETED NORTH DAKOTA SOIL SCIENTIST DATA FORMS

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-2-2</u>	EASTING: <u>585481.7</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5212768.4</u>	
TIME: <u>10:00</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Parnell</u>	Drainage Class: <u>VP</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 15Bk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y3/1</u>			<u>SIC 1mPr</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: cattails
most of wetland is water covered

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 141-2-4 EASTING: 58711.3
 DATE: 5-16-08 NORTHING: 5212527.5
 TIME: 10:10

Hydric Soils Present:
 Yes [] No []

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: VP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 1 mpr</u>
<u>6-11</u>	<u>Bg1</u>	<u>5Y3/1</u>			<u>SIC 1 mpr</u>
<u>11-16</u>	<u>Bg2</u>	<u>5Y3/2</u>			<u>SIC 1 mpr</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: cattails

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-2-65</u>	EASTING: <u>587158571.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5212424.1</u>	
TIME: <u>10:20</u>		

Map Unit/Taxonomy:

Series or Phase: Barrell Drainage Class: Vp

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A _p	5Y 7.5/1			SIC 1m SBK
6-11	B _{g1}	5Y 3/1			SIC 1m pr
11-16	B _{g2}	5Y 3/2			SIC 1m pr

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / E3

<p>Comments:</p>	<p>Kenneth Thompson, Professional Soil Classifier</p> <p><i>Kenneth Thompson</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-2-6</u>	EASTING: <u>585907.2</u>	Hydric Soils Present:
DATE: <u>5-16-08</u>	NORTHING: <u>5212762.5</u>	Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]
TIME: <u>10:30</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: VA

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 1m SBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y3/1</u>			<u>SIC 3m SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: cattails
water covered

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 141-2-7/8 EASTING: 585957.3 Hydric Soils Present:
DATE: 5-16-08 NORTHING: 521957.9 Yes No
TIME: 10:35

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: Vp
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y2.5/1			SIC
7-14	Bg	5Y3/1			SIC

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: cattail

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-2-9</u>	EASTING: <u>586027.1</u>	Hydric Soils Present:
DATE: <u>5-16-08</u>	NORTHING: <u>5211659.3</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>10:25</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: Vp

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			SPC 2m sbk
6-16	Bg	5Y3/1			SIC 2m pr

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2B3 / F3

Comments: Catlaib

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-2-10/11 A</u>	EASTING: <u>5862183</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5211750, 7</u>	
TIME: <u>12:10</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Vps

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>SIC mshk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 3/1</u>			<u>SIC mshk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: <u>watp covered</u> <u>cattails</u> <u>No flag</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 141-2-10/1, B EASTING: 586118.3 Hydric Soils Present:
DATE: 5-16-68 NORTHING: 5211783.1 Yes No
TIME: 11:15

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: Vp
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			SIC 1mSBK
6-16	B _g	5Y3/1			SIC 2mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: <u>Cattail</u> <u>water covered</u> <u>No flag</u>	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-2-12</u>	EASTING: <u>586141.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>521514.2</u>	
TIME: <u>11:10</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	5Y2.5/1			SIC 1mshik
6-11	Bg1	5Y3/1			SIC 1mpr
11-16	Bg2	5Y3/2			SIC 2mpr

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-3-1</u>	EASTING: <u>583863.8</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5213669.9</u>	
TIME: <u>8:45</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: U_{ps}

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC mSBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y3/1</u>			<u>SIC IMPR</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-3-3</u>	EASTING: <u>584975.1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5213075.8</u>	
TIME: <u>9:40</u>		

Map Unit/Taxonomy: Tenba

Series or Phase: _____ Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

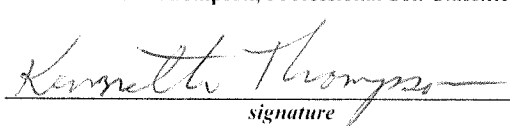
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>2.5Y 2.5/1</u>			<u>SIC 1m SBK</u>
<u>6-12</u>	<u>BE1</u>	<u>2.5Y 3/1</u>			<u>SIC 2mp</u>
<u>12-16</u>	<u>E2</u>	<u>2.5Y 3/2</u>			<u>SIC 2mp</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-4-1</u>	EASTING: <u>583695.6</u>	Hydric Soils Present: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5212347.5</u>	
TIME: <u>12:46</u>		

Map Unit/Taxonomy:

Series or Phase: Balaton Drainage Class: _____

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

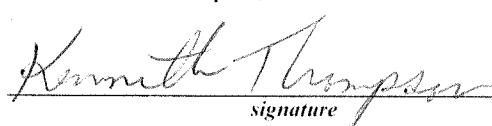
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>sic 2msbk</u>
<u>7-16</u>	<u>Bt</u>	<u>10Y4/2</u>			<u>sic 2mpk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator:

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 141-4-4 EASTING: 583101.7
 DATE: 5-16-08 NORTHING: 5212260.4
 TIME: 1:30

Hydric Soils Present:
 Yes [] No []

Map Unit/Taxonomy: Tonka Drainage Class: ~~P~~ P
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5Y 2.5/</u>			<u>510L 4m Shk</u>
<u>6-16</u>	<u>E</u>	<u>2.5Y 3/1</u>			<u>510L 2mp/</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments: CWP

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-4-5</u>	EASTING: <u>583190.9</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5212126.1</u>	
TIME: <u>1:25</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Vp

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

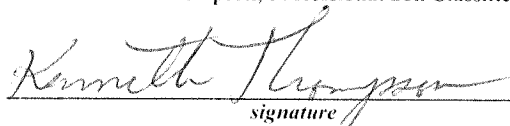
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	OA	5Y2.5/1			S/C 2m ^{5K} 5K
6-13	Bg	5Y3/1			S/C 2m ^{5K} 5K

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-4-6</u>	EASTING: <u>5803066.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5211950.1</u>	
TIME: <u>1:15</u>		

Map Unit/Taxonomy:

Series or Phase: pan pannel Drainage Class: VP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>SIC 1m Sbk</u>
<u>7-16</u>	<u>Bg</u>	<u>5Y 3/1</u>			<u>SIC 2m Sbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: - 2b3 / F3

<p>Comments: <u>No flag</u> <u>watery covered</u></p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><u>Kenneth Thompson</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>144 H-8</u>	EASTING: <u>583039.0</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5211740.0</u>	
TIME: <u>1:10</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: VP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			51C 2m SBK
6-16	B _g	5Y3/1			51C 2m SBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: waty on surface
catclays

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-4-10</u>	EASTING: <u>582932.2</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>521529.8</u>	
TIME: <u>1:40</u>		

Map Unit/Taxonomy: _____

Series or Phase: Sea pannel Drainage Class: VP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

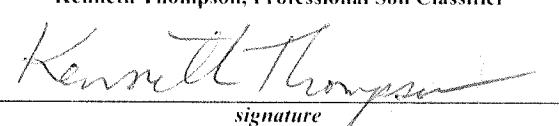
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			SIC 2M5BK
6-16	B _g	5Y3/1 5Y3/1			SIC 2M5BK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 1F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 141-4-11 EASTING: 583091.3 Hydric Soils Present:
 DATE: 5-16-08 NORTHING: 5211521.9 Yes No
 TIME: 1:05

Map Unit/Taxonomy:
 Series or Phase: pcornell Drainage Class: P
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

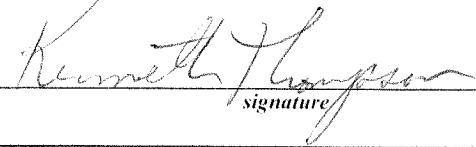
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	2.5Y2.5/1			SIC 2m SBK
6-11	Bg1	2.5Y3/1			SIC 2m SBK
11-16	Bg2	2.5Y4/2			SIC 1m SBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: Crop no flag

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-4-12</u>	EASTING: <u>582035.7</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5121510.4</u>	
TIME: <u>1:00</u>	<u>521508.6</u>	

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>SIC 1m Shk</u>
<u>7-14</u>	<u>Bg1</u>	<u>2.5Y3/1</u>			<u>SIC 2m Shk</u>
<u>14-16</u>	<u>Bg2</u>	<u>2.5Y4/1</u>			<u>SIC 18 Shk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 1F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-5-3</u>	EASTING: <u>581967.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5213677.2</u>	
TIME: <u>8:25</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Vp

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y2.5/1			Sic 1m SBK
7-12	B _{g1}	5Y2.5/1 5Y3/1			cl 3m SHK
12-16	B _{g2}	5Y3/2			

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-G-1</u>	EASTING: <u>579828.6</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5212376.3</u>	
TIME: <u>3:45</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: VP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>2.5Y2.5/1</u>			<u>51C 2m Sbk</u>
<u>7-16</u>	<u>Bg</u>	<u>5Y3/1</u>			<u>51E 2m Sbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: <u>cat tails</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson</u> signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 1416-4 EASTING: 579759.4 Hydric Soils Present:
 DATE: 5-16-08 NORTHING: 5212338.4 Yes No
 TIME: 0130

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: VP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5.5Y 2.5/1</u>			<u>SIC 2mSbk</u>
<u>6-16</u>	<u>Bg</u>	<u>5.5Y 3/1</u>			<u>SIC 3mSbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2631F3

Comments:

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-6-6</u>	EASTING: <u>579553, 8</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-17-08</u>	NORTHING: <u>5212442, 4</u>	
TIME: <u>7:00</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	5Y2.5/1			SIC 1mSBK
6-16	Bg	5Y3/1			SIC 3mSBd

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-6-7A</u>	EASTING: <u>579029.4</u>	Hydric Soils Present:
DATE: <u>5-16-08</u>	NORTHING: <u>5712478.0</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>1:25</u>		

Map Unit/Taxonomy:

Series or Phase: Timba Drainage Class: SP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

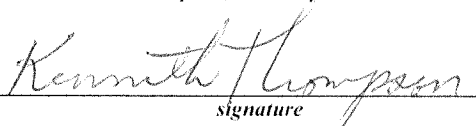
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>AP</u>	<u>2.5Y2.5/1</u>			<u>5/CL 1m pl</u>
<u>6-13</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>5/CL 2m pl</u>
<u>13-16</u>	<u>E2</u>	<u>2.5Y4/2</u>			<u>5/CL 1m pl</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: <u>No flag</u>	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-6-7B</u>	EASTING: <u>579029.4</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5212478.00</u>	
TIME: <u>2:15</u>		

Map Unit/Taxonomy: Tombra Drainage Class: SP

Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A_p</u>	<u>2.5Y2.5/1</u>			<u>SICL 1m SBK</u>
<u>7-11</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>SICL 3mp/1</u>
<u>11-16</u>	<u>E2</u>	<u>2.5Y4/2</u>			<u>SICL 1mp/1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input checked="" type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments: <u>Cropped</u> <u>no flag</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-10-12</u>	EASTING: <u>583738.9</u>	Hydric Soils Present:
DATE: <u>5-17-08</u>	NORTHING: <u>5220359.8</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>2:20</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Parnell</u>	Drainage Class: <u>VP</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2⁵/1</u>			<u>Sic</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y³/1</u>			<u>Sic</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: F3

<p>Comments:</p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth Thompson #14</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-11-1</u>	EASTING: <u>586178.4</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5211448.1</u>	
TIME: <u>11:50</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>AP</u>	<u>2.5Y2.5/1</u>			<u>SIC 2m Spk</u>
<u>7-13</u>	<u>Bg1</u>	<u>2.5Y3/1</u>			<u>SIC 2m Spk</u>
<u>13-16</u>	<u>Bg2</u>	<u>2.5Y4/2</u>			<u>SIC 1m Spk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: Cropped

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson
signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

141-11-4
 4-H

SOIL DESCRIPTION

SITE ID: 141-11-4 EASTING: 585646.6 Hydric Soils Present: Yes No
 DATE: 5-16-08 NORTHING: 5210961.7
 TIME: 11:55

Map Unit/Taxonomy: Parnell Drainage Class: VP
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y2.5/1			S/C 2mSBK
7-16	Bg	5Y3/1			S/C 3mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: cattails
No flag

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>141-11-5</u>	EASTING: <u>585764.1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-05</u>	NORTHING: <u>5710870.2</u>	
TIME: <u>11:00</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Vp

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	8.5Y 2.5/1			51C 7mSBK
7-16	Bg	5Y 3/1			51C 3mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: w/flag

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-4-1</u>	EASTING: <u>582877.1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5222735.7</u>	
TIME: <u>3:35</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>S/C 2mSBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 2.5/1</u>			<u>S/C 3mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / F3

Comments: <u>Cattail</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><u>Kenneth W. Thompson #14</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-4-2 EASTING: 583572.1 Hydric Soils Present: Yes No
DATE: 5-13-08 NORTHING: 522 2750.3
TIME: 3:25

Map Unit/Taxonomy: _____
Series or Phase: Parnell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 2mShk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SIC 3mShk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2B3 1F2

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-4-3</u>	EASTING: <u>581600</u>	Hydric Soils Present:
DATE: <u>5-13-08</u>	NORTHING: <u>5221600</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>4:25</u>		

Map Unit/Taxonomy: _____

Series or Phase: Darnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y 2.5/1			SIC 1m Sbk
7-16	Bg	5Y 2.5/1			SIC 3m Sbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

<p>Comments:</p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth Thompson</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-4-9</u>	EASTING: <u>58223²</u>	Hydric Soils Present: Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]
DATE: <u>5-13-08</u>	NORTHING: <u>5222711</u>	
TIME: <u>4:55</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>2.5Y2/1</u>			<u>SIC 2mSBK</u>
<u>7-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SIC 3mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: <u>No flag</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><u>Kenneth W. Thompson #14</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-4-10</u>	EASTING: <u>582356.4</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5222729.6</u>	
TIME: <u>4:45</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 2m^{SBK}</u>
<u>7-16</u>	<u>B_g</u>	<u>5Y2.5/1</u>			<u>SIC 3m^{SBK}</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

Comments:	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson #14</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-5-1</u>	EASTING: <u>581830</u>	Hydric Soils Present:
DATE: <u>5-13-08</u>	NORTHING: <u>5222727</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>4:00</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: Verypoos

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>S/C 3mSbk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>S/C 3mSbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / F2

Comments: <u>water covered cattail</u>	<p align="center">Kenneth Thompson, Professional Soil Classifier</p> <p align="center"><u>Kenneth W. Thompson #14</u> signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-5-2</u>	EASTING: <u>581882.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14-08</u>	NORTHING: <u>521724.5</u>	
TIME: <u>9:00</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Parnell</u>	Drainage Class: <u>Very poor</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>sick 2m SBK</u>
<u>7-16</u>	<u>Bg</u>	<u>5Y 2.5/1</u>			<u>sick 3m SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/FZ

Comments: <u>No flag</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson #14</u> <small>signature</small>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-5-5 EASTING: 581115 Hydric Soils Present: Yes No
 DATE: 5-14-08 NORTHING: 5221319
 TIME: 8:15

Map Unit/Taxonomy: _____
 Series or Phase: Parnell Drainage Class: pern
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>A</u>	<u>0-7</u>	<u>5Y2.5/1</u>			<u>SIC 1m^{stk}</u>
<u>Bg</u>	<u>7-16</u>	<u>5Y2.5/1</u>			<u>SIC 3<at</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 1F2

Comments: No flag

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-5-8 EASTING: 580442 Hydric Soils Present: Yes No
 DATE: 5-14-08 NORTHING: 5222750 5221785
 TIME: 7:45 5221755

Map Unit/Taxonomy: _____
 Series or Phase: Southern Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>Water covered</u>					

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / A9

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-5-9</u>	EASTING: <u>581600</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>522750</u>	
TIME: <u>8:425</u>		

Map Unit/Taxonomy: _____

Series or Phase: pannell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y2.5/1			SIC 2mSBK
7-16	Bg	5Y2.5/1			SIC 3mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / FZ

Comments:	Kenneth Thompson, Professional Soil Classifier  <i>signature</i> #14
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-5-11</u>	EASTING: <u>581600</u>	Hydric Soils Present:
DATE: <u>5-13-08</u>	NORTHING: <u>5222750</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>4:10</u>		

Map Unit/Taxonomy: Tampa

Series or Phase: _____ Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-4</u>	<u>Ap</u>	<u>2.5Y2/1</u>			<u>sick on sbk</u>
<u>6-16</u>	<u>E</u>	<u>2.5Y2/1</u>			<u>sick 2mpl</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / A11

Comments:	<p align="center">Kenneth Thompson, Professional Soil Classifier</p> <p align="center"><u>Kenneth W. Thompson #14</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-5-12 EASTING: 581600 Hydric Soils Present:
DATE: 5-13-08 NORTHING: 5222750 Yes No
TIME: 4:05

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5YR2.5/1			SIC 2mSBK
6-16	B _g	5Y2.5/1			SIC 3mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

Comments: No flag

Kenneth Thompson, Professional Soil Classifier
Kenneth W Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-7-2</u>	EASTING: <u>5788161</u>	Hydric Soils Present:
DATE: <u>5-14-08</u>	NORTHING: <u>5220690.1</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>2:30</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0.5</u> AD	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 2msbk</u>
<u>5-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SIC 2msbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input checked="" type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

<p>Comments:</p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth W. Thompson</i> #14 signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-7-4 EASTING: 580194.2 Hydric Soils Present: Yes No
 DATE: 5-14-08 NORTHING: 5220507.3
 TIME: 10:15

Map Unit/Taxonomy: _____
 Series or Phase: Tonka Drainage Class: poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>sil 2mbk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>sil 2mp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-8-4</u>	EASTING: <u>581004.5</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14-08</u>	NORTHING: <u>5220122.9</u>	
TIME: <u>10:25</u>		

Map Unit/Taxonomy: Tonka

Series or Phase: _____ Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>2.5Y 2.5/1</u>			<u>SIL 2msk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y 3/1</u>			<u>SIL 1mp'</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/All

Comments: most of the wetland is covered with water. no vegetation

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-8-7 EASTING: 580448.8
DATE: 5-14-08 NORTHING: 5220626.0
TIME: 10:00

Hydric Soils Present:
Yes No

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5Y2.5/1			SIC 2mSbk
6-13	Bg1	2.5Y3/1			SIC 3mSbk
13-16	Bg2	2.5Y3/1			2mSbk SIC gypsum

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-8-8</u>	EASTING: <u>580495.2</u>	Hydric Soils Present: Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]
DATE: <u>5-14-08</u>	NORTHING: <u>5221032.1</u>	
TIME: <u>9:40</u>		

Map Unit/Taxonomy:		
Series or Phase: <u>Parnell</u>	Drainage Class: <u>Very poor</u>	
- OR -		
Taxonomy: _____	Confirm Mapped Type? Yes [<input type="checkbox"/>] No [<input checked="" type="checkbox"/>]	

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>sil 2m sbk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 2.5/1</u>			<u>stcl 3m sbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F2

Comments: <u>water table 1 inch</u> <u>most of wetland is</u> <u>covered by water</u>	<p align="center">Kenneth Thompson, Professional Soil Classifier</p> <p align="center"><u>Kenneth W. Thompson #14</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-9-4</u>	EASTING: <u>583034.8</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14-08</u>	NORTHING: <u>5219912.9</u>	
TIME: <u>11:35</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Parnell</u>	Drainage Class: <u>pool</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>2.5Y3/1</u>			<u>SICL 2mSBK</u>
<u>7-14</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SICL 3mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

Comments: <u>Cattails</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-9-5 EASTING: 583 097.3 Hydric Soils Present:
DATE: 5-14-08 NORTHING: 5219889.7 Yes No
TIME: 11:45

Map Unit/Taxonomy: _____
Series or Phase: Tonka Drainage Class: Somewhat poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u> <u>Ap</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>SICK 2m ShK</u>
<u>7-13</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>SICK 2m pl</u>
<u>13-16</u>	<u>E2</u>	<u>2.5Y4/2</u>			<u>SICK 2m pl</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments: No flag
GPB location

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-9-6 EASTING: 582⁸58.8 Hydric Soils Present:
DATE: 5-14-08 NORTHING: 5219570.1 Yes No
TIME: 11:05

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y3/1			SICL 2mSbk
7-16	B ₉	5Y2.5/1	1mF	10YR4/4	SICL 3mSbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F2

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 442-142-9-7 EASTING: 582702.6 Hydric Soils Present: Yes No
DATE: 5-14-08 NORTHING: 5219967.7
TIME: 11:20

Map Unit/Taxonomy: Tonka Drainage Class: Somewhat poorly
Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>SIL 2m SBK</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>	<u>10YR4/4</u>	<u>3fd</u>	<u>SIL 24p1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson 14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-9-10-11-12 EASTING: 582 244.6 Hydric Soils Present: Yes No

DATE: 5-14-08 NORTHING: 5219847.3 Yes No

TIME: 10:50

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y 2.5/1			SIC 2mbt
7-16	Bg	2.5Y 3/1	10YR 4/4	1mf	SIC 2mpr

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: Drained - No flag

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-9- EASTING: 582994.5 Hydric Soils Present:
 DATE: 5-14-07 NORTHING: 5219945.2 Yes No
 TIME: 11:30

Map Unit/Taxonomy:
 Series or Phase: Tonka Drainage Class: Somewhat poorly
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A_p</u>	<u>10YR 2/1</u>			<u>SIL 2m 5/6</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y 2.5/1</u>			<u>SIL 2m 1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: Flag is marked 9-3
GPS location

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-10-5</u>	EASTING: <u>504437.4</u>	Hydric Soils Present:
DATE: <u>5-14-08</u>	NORTHING: <u>5219947.4</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>1:15</u>		

Map Unit/Taxonomy:

Series or Phase: <u>parnell</u>	Drainage Class: <u>Very poor</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>A</u>	<u>2.5Y3/1</u>			<u>SICL 2m Shk</u>
<u>5-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SICL 3m Shk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2B3 / F2

Comments: <u>Cat tail</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth W. Thompson #14</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>90142-10-7</u>	EASTING: <u>584417.7</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14-68</u>	NORTHING: <u>5219814.7</u>	
TIME: <u>1:00</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5Y3/1</u>			<u>SIC 2mSbc</u>
<u>6-16</u>	<u>Bg</u>	<u>05Y2.5/1</u>			<u>SIC 3CSbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input checked="" type="checkbox"/> Aquic Moisture Regime <input checked="" type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input checked="" type="checkbox"/> Listed on Local Hydric Soils List <input checked="" type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Comments)
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USDA Hydric Soils Field Indicator: 2b3/F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-10-8</u>	EASTING: <u>584509.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14-08</u>	NORTHING: <u>5219607.3</u>	
TIME: <u>1:30</u>		

Map Unit/Taxonomy: _____

Series or Phase: pernell Drainage Class: Very poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>SIC 2m SBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 2.5/1</u>			<u>SIC 3m SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3/F2

Comments: Cattail water covers the surface

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-10-9 EASTING: 583971.9 Hydric Soils Present: Yes No
DATE: 5-14-08 NORTHING: 5219740.7
TIME: 12.35

Map Unit/Taxonomy: Series or Phase: Tonka Drainage Class: Somewhat poor
-OR- Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>sic 6m Shk</u>
<u>6-16</u>	<u>E</u>	<u>2.5Y2.5/1</u>			<u>sic 3cp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-10-10 EASTING: 58 2801.7 Hydric Soils Present: Yes No
 DATE: 5-14-08 NORTHING: 5219584.3
 TIME: 12:15

Map Unit/Taxonomy: _____
 Series or Phase: Parnell Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y3/1			SIC 2m 9k
6-16	Bg	5Y2.5/1			SIC 3P56k

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-10-11</u>	EASTING: <u>583711.7</u>	Hydric Soils Present:
DATE: <u>5-14-08</u>	NORTHING: <u>5219878.9</u>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
TIME: <u>1:45</u>		

Map Unit/Taxonomy: _____

Series or Phase: Balaton Drainage Class: _____

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator:

<p>Comments:</p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth Thompson</i> signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-16-4A EASTING: 503462.1
 DATE: 5-15-08 NORTHING: 5218222.4
 TIME: 7:30

Hydric Soils Present:
 Yes No

Map Unit/Taxonomy:
 Series or Phase: Tombca Drainage Class: poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	10YR2/1			sic 2m sbk
7-16	E	2.5Y 2.5/1			sic 2m pl

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: No flag

Kenneth Thompson, Professional Soil Classifier
Kenneth Thompson
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-16-4B</u>	EASTING: <u>583099.1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5218508.9</u>	
TIME: <u>8:00</u>		

Map Unit/Taxonomy:

Series or Phase: Pernell Drainage Class: poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No [

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>SIC 2m SBK</u>
<u>7-14</u>	<u>Bq</u>	<u>5Y2.5/1</u>			<u>SIC 3m SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

Comments:	<p align="center">Kenneth Thompson, Professional Soil Classifier</p> <p align="center"><i>Kenneth Thompson</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-16-5</u>	EASTING: <u>583338.2</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5217977.2</u>	
TIME: <u>8:16</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell _____ Drainage Class: VP _____

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>SIC 2m SBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 3/1</u>			<u>SIC 3c SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: <u>Longswale</u>	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-16-7</u>	EASTING: <u>583148.9</u>	Hydric Soils Present:
DATE: <u>5-15-08</u>	NORTHING: <u>5218417.7</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>7:45</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: Vp

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5Y2.5/1			SIC 2mSBK
6-16	Bg	5Y2.5/1			SIC 30SBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F2

<p>Comments:</p>	<p align="center">Kenneth Thompson, Professional Soil Classifier</p> <p align="center"><i>Kenneth Thompson</i></p> <p align="center">signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-16-8</u>	EASTING: <u>582544.8</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5217955.5</u>	
TIME: <u>8:30</u>		

Map Unit/Taxonomy: _____

Series or Phase: parnell Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	2.5Y2.5/			SIC 2mSbk
6-16	Bg	2.5Y3/2			SIC 3C Sbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3/F3

Comments: <u>cropland</u> <u>no flag</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-16-9</u>	EASTING: <u>582371-1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
DATE: <u>5-17-08</u>	NORTHING: <u>5218161.1</u>				
TIME: <u>8:35</u>					
Map Unit/Taxonomy:					
Series or Phase: <u>Parnell</u>	Drainage Class: <u>P</u>				
- OR -					
Taxonomy: _____	Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>2.5Y 2.5/1</u>			<u>Sic</u>
<u>6-16</u>	<u>Bg</u>	<u>2.5Y 3/1</u>			<u>Sic</u>
USACE Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input checked="" type="checkbox"/> Aquic Moisture Regime		<input checked="" type="checkbox"/> Listed on Local Hydric Soils List			
<input checked="" type="checkbox"/> Reducing Conditions		<input checked="" type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Comments)			
USDA Hydric Soils Field Indicator: F3					
Comments: <u>Shaded</u>	Kenneth Thompson, Professional Soil Classifier <u>Ken Thompson #14</u> signature				

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 147-16-10 EASTING: 582489.6 Hydric Soils Present: Yes No
DATE: 5-15-08 NORTHING: 5218014.8
TIME: 8:40

Map Unit/Taxonomy:
Series or Phase: pannell Drainage Class: poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>2.5Y3/1</u>			<u>SK 2mSBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y3/2</u>			<u>SIC 3cSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 1F2

Comments: drained
no lag

Kenneth Thompson, Professional Soil Classifier
Kenneth Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-17-4 EASTING: 581657.2 Hydric Soils Present: Yes | | No | |
 DATE: 5-14-08 NORTHING: ~~528~~ 5218138.8
 TIME: 4:30

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	2.5Y 3/1			sic 1m sbk
6-16	Bg	2.5Y 2/1	2.5Y 5/4	2nd	sic 3c sbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 IF2

Comments: drained cropland

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #
 signature 14

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-17-8</u>	EASTING: <u>580589.3</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14-08</u>	NORTHING: <u>5218941.3</u>	
TIME: <u>2:45</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	10YR2/1			SICK hmsbk
7-12	Bg1	2.5Y2.5/1			SIC 3CSBK
12-16	Bg2	2.5Y5/3			SIC 2msbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input checked="" type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: *Drained - Cropland
unmarked flag is below this point
that point is non hydric, gassemed
that the above point was the wetland*

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson #14
signature

*The flag is located on a 3% slope
Flag is at 580562.4 E
5218863.1 N*

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-20-2</u>	EASTING: <u>581974.1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5216940.2</u>	
TIME: <u>1:05</u>		

Map Unit/Taxonomy:

Series or Phase: Pamell Drainage Class: Up

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	AP	5Y 2.5/1			S, CL hmsbk
6-10	Bg	5Y 3/1			S, CL 2Cmsb

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: <u>No flag</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><u>Kenneth Thompson</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-20-03</u>	EASTING: <u>581921.7</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>05-15-08</u>	NORTHING: <u>5216395.8</u>	
TIME: <u>12:50</u>		

Map Unit/Taxonomy:

Series or Phase: Parrell Drainage Class: VP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

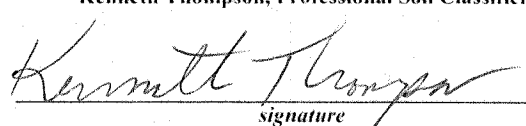
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A_p</u>	<u>5Y 2.5/1</u>			<u>SICL 1m Shk</u>
<u>7-16</u>	<u>B_g</u>	<u>5Y 3/1</u>			<u>SIC 3C Shk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-20-4A</u>	EASTING: <u>581148.0</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-14</u>	NORTHING: <u>5217388.7</u>	
TIME: <u>3:30</u>		

Map Unit/Taxonomy: Tonka

Series or Phase: _____ Drainage Class: seasonal/intermittent

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A _D	10YR2/1			51CL 1mSK
6-16	E	2.5Y 3/1			5CL 2HPI

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: -263 / A11

Comments: <u>Cropland</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson #14</u> signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-20-5 EASTING: 581252.7 Hydric Soils Present: Yes | | No | |
 DATE: 5-14-08 NORTHING: 5915017613.5
 TIME: 4:20

Map Unit/Taxonomy:
 Series or Phase: Tonka Drainage Class: Somewhat poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u> <u>Ap</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>5'CL 1m Shk</u>
<u>6-16</u>	<u>E</u>	<u>2.5 3/1</u>			<u>5'CL 30p1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: 3% slope swale

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-~~22~~21-2 EASTING: 583369.0
DATE: 5-15-08 NORTHING: 5217267.0 Hydric Soils Present:
TIME: 9:00 Yes No

Map Unit/Taxonomy:
Series or Phase: Tonka Drainage Class: SP
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	AP	10YR2/1			SICL 1m 5h 2k
7-12	E1	2.5Y2.5/1			SICL 2sp1
12-16	E2	2.5Y4/2			SICL 2mp1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / All

Comments: _____

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-21-4</u>	EASTING: <u>582799.9</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5216689.2</u>	
TIME: <u>12:45</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

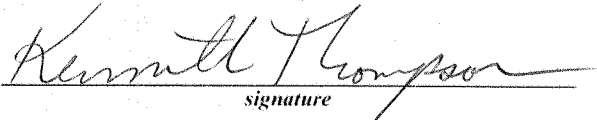
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>5Y2.5/1</u>			<u>SICL 1mSBK</u>
<u>7-11</u>	<u>Bg1</u>	<u>5Y3/1</u>			<u>SIC 3mSBK</u>
<u>11-16</u>	<u>Bg2</u>	<u>5Y3/2</u>			<u>SIC 1mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 1F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-21-1666 EASTING: 583398.8 Hydric Soils Present: Yes No
 DATE: 5-15-08 NORTHING: 5217923.9
 TIME: 8:45

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: VP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 4SBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y3/1</u>			<u>SIC 2CSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: - 2b3 / F3

Comments: No flag
part of swale on Sec 16

Kenneth Thompson, Professional Soil Classifier
Kenneth Thompson
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-2 EASTING: ~~583~~ 583687.7 Hydric Soils Present: Yes | | No | |
 DATE: 5-15-08 NORTHING: 5217095.5
 TIME: 9:20

Map Unit/Taxonomy:
 Series or Phase: Southern Drainage Class: Vp
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/A9

Comments: This site is located in Sec. 21
GPS location ~~not flag~~

Kenneth Thompson, Professional Soil Classifier
Kenneth Thompson
 signature

Site 142-22-3 is on east side of road
No flag or GPS for 28-2B
Site ~~142-28-20~~ 142-28-20-7 flag is marked 28-2

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-28-04</u>	EASTING: <u>583049</u>	Hydric Soils Present:
DATE: <u>5-15-04</u>	NORTHING: <u>5214849</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>3:05</u>		

Map Unit/Taxonomy:

Series or Phase: Tombec Drainage Class: Pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>51C = 1m SBK</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>51CL 2mp?</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: - 263 / All

<p>Comments:</p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth Thompson</i> signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-28-8</u>	EASTING: <u>583072</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5214927</u>	
TIME: <u>3:30</u>		

Map Unit/Taxonomy:

Series or Phase: Panell Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y 2.5/1</u>			<u>Sic 1m SBK</u>
<u>7-16</u>	<u>Bg</u>	<u>5Y 3/1</u>			<u>Sic 3m SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: Crop

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-28-9</u>	EASTING: <u>582320.06</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5215612.5</u>	
TIME: <u>10:55</u>		

Map Unit/Taxonomy: Tonka Drainage Class: AP

Series or Phase: _____ - OR - _____

Taxonomy: _____ Confirm Mapped Type? Yes No

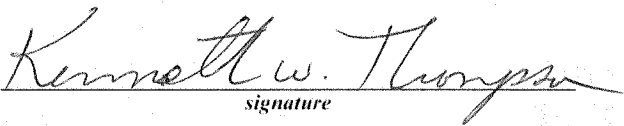
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>AP</u>	<u>2.5Y2.5/1</u>			<u>SL 1.25BK</u>
<u>7-16</u>	<u>BE</u>	<u>2.5Y3/1</u>			<u>SL 1mp</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments:	Kenneth Thompson, Professional Soil Classifier  <i>signature</i>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-28-10</u>	EASTING: <u>582524.9</u>	Hydric Soils Present:
DATE: <u>5-15-08</u>	NORTHING: <u>5215713.1</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>11:05</u>		

Map Unit/Taxonomy: _____

Series or Phase: Tonka Drainage Class: poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>SIL hmSBK</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>SIE SICL 2MA</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / A11

<p>Comments:</p>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth Thompson</i></p> <p style="text-align: center;">signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-12A EASTING: 582659.6 Hydric Soils Present:
 DATE: 5-15-08 NORTHING: 5215673.5 Yes No
 TIME: 12:20

Map Unit/Taxonomy:
 Series or Phase: Pernell Drainage Class: A
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

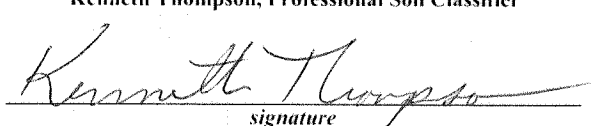
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y 2.5/			SiCL 1msbk
7-14	B _{3g}	2.5Y 3/1			SiCL 3CSbk

USACE Hydric Soil Indicators:

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input checked="" type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input checked="" type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Comments) |

USDA Hydric Soils Field Indicator: 263 / F3

Comments:
GPS location
Flag is marked 142-28-11

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-12B EASTING: 582784.7 Hydric Soils Present:
DATE: 5-15-08 NORTHING: 5215743.4 Yes No
TIME: 11:20

Map Unit/Taxonomy: _____
Series or Phase: Tonka Drainage Class: Somewhat poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>512 1m shk</u>
<u>7-13</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>512 2m pl</u>
<u>13-16</u>	<u>E2</u>	<u>2.5Y3/3</u>			<u>512 2m pl</u>

USACE Hydric Soil Indicators:

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input checked="" type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input checked="" type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Comments) |

USDA Hydric Soils Field Indicator:

263 / All

Comments:

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>14828-13</u>	EASTING: <u>582877.5</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>52157580</u>	
TIME: <u>11:30</u>		

Map Unit/Taxonomy: Tonka

Series or Phase: _____ Drainage Class: SP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

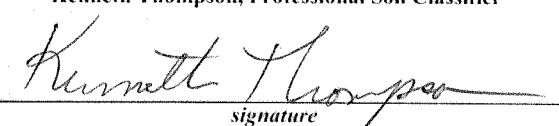
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>AP</u>	<u>2.5Y2.5/1</u>			<u>SICL 1m Spk</u>
<u>7-11</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>SICL 30 p/1</u>
<u>11-16</u>	<u>E2</u>	<u>2.5Y3/3</u>			<u>SICL 2mp/1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253/A11

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-14 EASTING: 582790 Hydric Soils Present: Yes No

DATE: 5-15-08 NORTHING: 5215803 Yes No

TIME: 12:15

Map Unit/Taxonomy: _____
 Series or Phase: Tonka Drainage Class: SP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

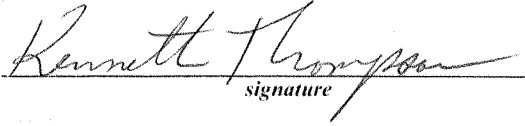
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>AP</u>	<u>2.5Y2.5/1</u>			<u>SICL 1 mSbk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>SICL 2 mpr</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / A11

Comments: _____

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

142

SITE ID: 142-28-16 EASTING: 582916.9 Hydric Soils Present: Yes | | No | |
DATE: 5-15-08 NORTHING: 5215848.4
TIME: 11:35

Map Unit/Taxonomy: Tonka Drainage Class: D
Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes [] No

Profile Description:

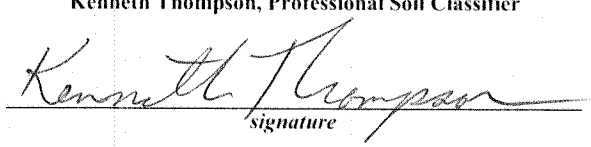
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	AP	2.5Y2.5/1			SICL 12W5bk
7-11	E1	2.5Y3/1			SICL 3mp1
11-14	E2	2.5Y3/3			SICL 2mp1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: _____

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-17 EASTING: 587956.7 Hydric Soils Present: Yes No
 DATE: 5-15-08 NORTHING: 5215856.1
 TIME: 11:40

Map Unit/Taxonomy: Parnell Drainage Class: VP
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

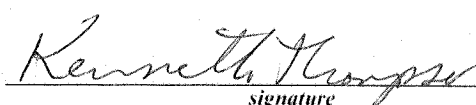
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y 2.5/1			51CL 2mSbK
7-16	Bg	5Y 3/1			51C 3CSbK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: water covered

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 148-28-18 EASTING: 583059.0 Hydric Soils Present: Yes No
 DATE: 5-15-68 NORTHING: 5215929.1
 TIME: 11:45

Map Unit/Taxonomy: Parnell Drainage Class: UP
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

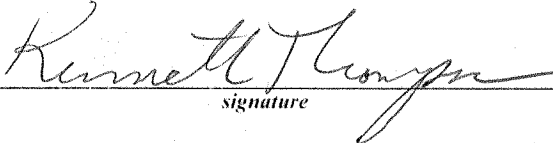
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>A</u>	<u>5Y2.5Y2/1</u>			<u>SICL 2m SBK</u>
<u>5-16</u>	<u>Bg</u>	<u>5Y2/1</u>			<u>SICL 3C SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: water covers surface
#on log torn off

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-19 EASTING: 583150.6 Hydric Soils Present:
 DATE: 5-25-08 NORTHING: 5215915.7 Yes No
 TIME: 11:50

Map Unit/Taxonomy: _____
 Series or Phase: Tanka Drainage Class: SP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>Ap</u>	<u>0-7</u>	<u>2.5Y3/1</u> 2.5Y2/3			<u>SIL 1mSBK</u>
<u>E</u>	<u>7-16</u>	<u>2.5Y3/1</u>			<u>SIL 2mpt</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3/A11

Comments: _____

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>14228200</u>	EASTING: <u>582571.2</u>	Hydric Soils Present:
DATE: <u>5-15-08</u>	NORTHING: <u>5215683.0</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>11:10</u>		

Map Unit/Taxonomy: Tonka Drainage Class: P

Series or Phase: _____

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y2.5/1			SIL 1m gk
7-12	E1	2.5Y3/1			SIL 3m pl
12-16	E2	2.5Y3/3			SIL 2m pl

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / All

Comments: This flag is 148-28-2. There is a site in sec 63 marked 28-2. A rethes 2 sites 148-28-2 A & B?
This site does not show upon GPS

Kenneth Thompson, Professional Soil Classifier

Kenneth Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>148-28-206</u>	EASTING: <u>552641.8</u>	Hydric Soils Present:
DATE: <u>5-15-08</u>	NORTHING: <u>5215763.9</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>11:20</u>		

Map Unit/Taxonomy: _____

Series or Phase: Tonka Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

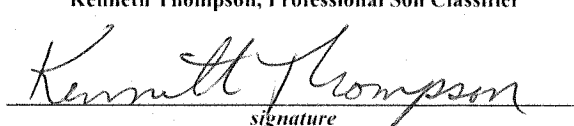
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>AP</u>	<u>2.5Y2.5/1</u>			<u>sil 2msk</u>
<u>7-12</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>sil 2mp1</u>
<u>12-16</u>	<u>E2</u>	<u>2.5Y</u>			<u>sil 2mp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / A11

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-21 EASTING: 582571.1 Hydric Soils Present: Yes No
 DATE: 5-15-08 NORTHING: 5215682.5
 TIME: 12:05

Map Unit/Taxonomy: Tonka Drainage Class: P
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

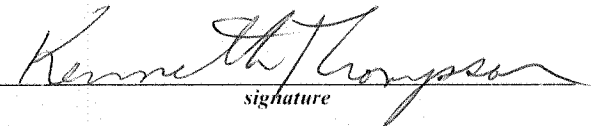
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	AP	2.5Y2.5/1			sicL m5bK
7-16	E	2.5Y3/1			sicL 3ap/

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input checked="" type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3/All

Comments: SB

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-28-22 EASTING: 583312
DATE: 5-15-08 NORTHING: 5214944
TIME: 3:45

Hydric Soils Present:
Yes [] No []

Map Unit/Taxonomy:
Series or Phase: Tonka Drainage Class: poC1
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>AP</u>	<u>2.5Y 2.5/1</u>			<u>sicL 1m Shk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y 3/1</u>			<u>SIC 3Ap1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments: _____

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>147-21-3</u>	EASTING: <u>579152.9</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-15-08</u>	NORTHING: <u>5214167.1</u>	
TIME: <u>3:40</u>		

Map Unit/Taxonomy: Fonba

Series or Phase: _____ Drainage Class: SP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>sil 1m sbk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>sil 15p</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/All

Comments: <u>No flag</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-32-213 EASTING: 551364.5 Hydric Soils Present: Yes No
DATE: 5-15-08 NORTHING: 5214356.3
TIME: 1:45

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: VP
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

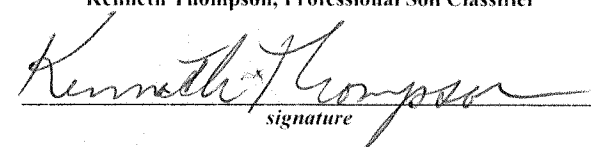
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SICL 1/2 SBK</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SICL 1m SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F2

Comments: willows on the edge
cattails

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-32-6</u>	EASTING: <u>583843</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5213315</u>	
TIME: <u>7:40</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Pamell</u>	Drainage Class: <u>poor</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>51C 1m SBK</u>
<u>6-16</u>	<u>Bg</u>	<u>2.5Y4/4</u>			<u>51C 2C SBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / F3

Comments: <u>swale crossed</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><u>Kenneth Thompson</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-32-8 EASTING: 581360, 580877⁹⁰⁵ Hydric Soils Present: Yes No
 DATE: 5-15-06 NORTHING: 5214118
 TIME: 2:15

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: P
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

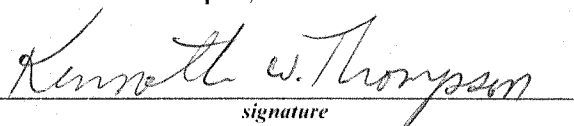
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y 2.5/1			SICL 1mSBK
7-16	Bg	5Y 3/1			SICL 2CSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-33-3</u>	EASTING: <u>583765</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-16-08</u>	NORTHING: <u>5213359</u>	
TIME: <u>7:35</u>		

Map Unit/Taxonomy: _____
Series or Phase: Parnell Drainage Class: poa
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	AP	2.5Y2.5/1			sic 1m sbk
7-16	Bg	2.5Y3/1	2.5Y4/3	2mf	sic 2mf 2m sbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: <u>Swale cropped</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><u>Kenneth W. Thompson</u> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-33-5</u>	EASTING: <u>582160</u>	Hydric Soils Present:
DATE: <u>5-16-08</u>	NORTHING: <u>521373</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>7:45</u>		

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: Vp
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

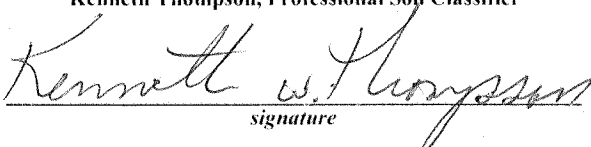
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 2mSk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SIC 2fSk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2B3 F2

Comments: water covered cattails

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-33-9 EASTING: 582509.9 Hydric Soils Present:
DATE: 5-16-08 NORTHING: 5213195.1 Yes No
TIME: 8:15

Map Unit/Taxonomy: Tonka Drainage Class: poer
Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

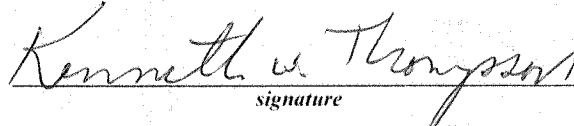
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5Y2.5/1</u>			<u>sil 2mSbx</u>
<u>6-10</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>sil 3fp1</u>
<u>10-16</u>	<u>E2</u>	<u>2.5Y3/2</u>	<u>10YR4/4</u> 3A	<u>3ff</u>	<u>sil 2fp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253/A11

Comments: _____

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-33-10 EASTING: 582883.6
DATE: 5-17-08 NORTHING: 5213581.1
TIME: 1730

Hydric Soils Present:
Yes No

Map Unit/Taxonomy: _____
Series or Phase: Tonka Drainage Class: P
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2.5/1</u>			<u>S/L</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>S/L 2mp/</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: Sb3/A11

Comments:	Kenneth Thompson, Professional Soil Classifier
	_____ <i>signature</i>

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>142-33-14</u>	EASTING: <u>583740.7</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-17-08</u>	NORTHING: <u>5214569.9</u>	
TIME: <u>8:02</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Parnell</u>	Drainage Class: <u>P</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y 2.5/1</u>			<u>Sic</u>
<u>7-16</u>	<u>Bq</u>	<u>2.5Y 3/1</u>			<u>Sic</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: F3

Comments:	Kenneth Thompson, Professional Soil Classifier <u>Kenneth Thompson #14</u> signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-33-18 EASTING: 583272.9 Hydric Soils Present: Yes | | No | |
 DATE: 5-15-08 NORTHING: 5214677.9
 TIME: 4:15

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: VP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y2.5/1			SIC 2mSBK
7-16	Bg	5Y3/1			SIC 3mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/FZ

Comments: Flag is marked 33-12
Map & GPS locate 33-18

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-34-36 EASTING: 584748.1 Hydric Soils Present:
 DATE: 5-16-08 NORTHING: 5213444.3 Yes No
 TIME: 9:05

Map Unit/Taxonomy: Parnell Drainage Class: Vp
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

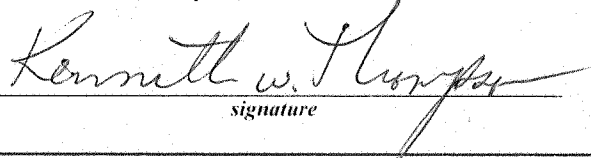
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	AP	2.5Y2.5/1			SIC 1mSBK
6-11	Bg1	2.5Y3/1			SIC 1mSBK
11-16	Bg2	2.5Y3/2			SIC 1mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: _____

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 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-34-8 EASTING: 584626.4 Hydric Soils Present: Yes No
DATE: 5-16-8 NORTHING: 5213448.8
TIME: 8:50

Map Unit/Taxonomy: Timber Drainage Class: AP
Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

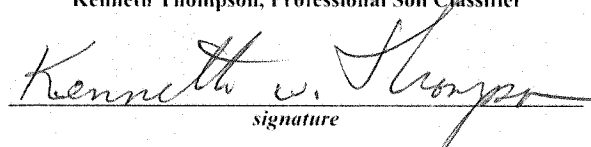
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	AP	2.5Y ^{2.5/1} _{2H}			sick 1m5bk
7-16	E	2.5Y3/1			sic 3mp1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: -2b3/A11

Comments: Flag istom - See # in map
GPS not locating this site
site is just SW of tower location, on the
the quarter line.

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 142-34-9 EASTING: 584904.5 Hydric Soils Present: Yes No
 DATE: 5-16-08 NORTHING: 5213489.0
 TIME: 9:20

Map Unit/Taxonomy:
 Series or Phase: parnell Drainage Class: poor
 -OR-
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	5Y 2.5/1			SIC 1m SBK
7-16	Bg	5Y 3/1			SIC 2c SBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / F3

Comments: _____

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 11/2-55-1 EASTING: 583595 Hydric Soils Present: Yes No
 DATE: 9-15-08 NORTHING: 5214698
 TIME: 4:10

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: VP
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

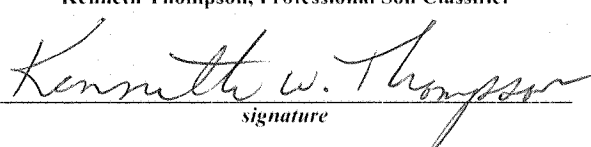
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	5Y 2.5/1			SIC 2CSbK
6-16	Bg	5Y 3/1			SIC 3CSbK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / E3

Comments:
 This site is in Sec. 33
 Flag is ~~over~~ marked 33-1
 GPS coord. marked 55-1

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 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-15-3 EASTING: 5842 27515 Hydric Soils Present:
 DATE: 5-12-08 NORTHING: 5227652.4 Yes No
 TIME: 11:20

Map Unit/Taxonomy:
 Series or Phase: Panell Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	5Y 2.5/1 2.5Y			5:2 1m sbk
7-16	Bg	5Y 2.5/1			5:2 3f sbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: . 2b3 / F3

Comments:
Cattails
water table 4 in. plus

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-20-1 EASTING: 580338.2 Hydric Soils Present: Yes No
 DATE: 5-12-04 NORTHING: 5226257-1
 TIME: 3:30

Map Unit/Taxonomy: _____ Series or Phase: Parnell Drainage Class: VP
 - OR - Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>05Y 7.5/1</u>			<u>s; cL 2m 5bL</u>
<u>7-16</u>	<u>Bg</u>	<u>5Y 3/1</u>			<u>s; cL 3m 5bL</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 IF3

Comments:

Kenneth Thompson, Professional Soil Classifier

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>14320-2</u>	EASTING: <u>580 354.4</u>	Hydric Soils Present:
DATE: <u>5-12-08</u>	NORTHING: <u>5226635.8</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>3:20</u>		

Map Unit/Taxonomy: _____

Series or Phase: Tonka Drainage Class: Pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>2.5Y 2/1</u>			<u>sick 1m blk</u>
<u>6-76</u>	<u>E</u>	<u>2.5Y 3/1</u>			<u>sick 3mp</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: <u>Cropland</u>	<p align="center">Kenneth Thompson, Professional Soil Classifier</p> <p align="center"><i>Kenneth W. Thompson #14</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-20-3 EASTING: 586742.7 Hydric Soils Present: Yes No
DATE: 5-8-08 NORTHING: 5227002.4
TIME: 3:15

Map Unit/Taxonomy: Tonpa Drainage Class: pool
Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

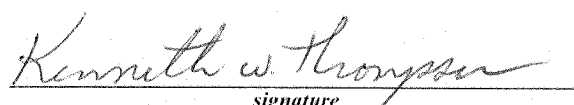
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y2/1			SicL 1m5bk
7-16	E	2.5Y3/1			SicL 2mp1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: Crop land

Kenneth Thompson, Professional Soil Classifier

signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-9-20-4 EASTING: 580830, 2
 DATE: 5-12-08 NORTHING: 5227018, 2
 TIME: 3:00

Hydric Soils Present:
 Yes | | No | |

Map Unit/Taxonomy: _____
 Series or Phase: Tombc Drainage Class: poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u> <u>AP</u>	<u>AP</u>	<u>2.5Y2/1</u>			<u>sick 1 m SBK</u>
<u>6-11</u>	<u>E1</u>	<u>2.5Y3/1</u>			<u>sick 2 m pl</u>
<u>11-16</u>	<u>E2</u>	<u>2.5Y3/1</u>		<u>MCP 5YR4/4</u>	<u>sick 2 m pl</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / A11

Comments: Cropland

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-20-5 EASTING: 581 234.7 Hydric Soils Present: Yes No
 DATE: 5-12-08 NORTHING: 5227115.0
 TIME: _____

Map Unit/Taxonomy: _____
 Series or Phase: Tanka Drainage Class: pool
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A	2.5Y2/1			siccl low shk
7-16	E	2.5Y3/1			siccl 2 mpl

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / A11

Comments: Cropland

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Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-20-6</u>	EASTING: <u>581562-4</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-12-08</u>	NORTHING: <u>5227398.3</u>	
TIME: <u>2:30</u>		

Map Unit/Taxonomy:

Series or Phase: Tonka Drainage Class: P

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y2/1			s ¹ L 1m 5/8k
7-16	E	2.5Y3/1		1ff 5YR 4/3	s ¹ c L 3m 2/1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input checked="" type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input checked="" type="checkbox"/> Listed on Local Hydric Soils List <input checked="" type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Comments)
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USDA Hydric Soils Field Indicator: 263 / All

Comments: <u>Cropland</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth W. Thompson</i> signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-20-7 EASTING: 518722-8
 DATE: 5-12-08 NORTHING: 5227379.3
 TIME: 2:15

Hydric Soils Present:
 Yes [] No []

Map Unit/Taxonomy: Tonka
 Series or Phase: _____ Drainage Class: poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2/1</u>			<u>silL 1mstk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>silL 2mpt</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments:

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14

 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-22-1</u>	EASTING: <u>584263.6</u>	Hydric Soils Present:
DATE: <u>5-13-08</u>	NORTHING: <u>5227615.9</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>7:30</u>		

Map Unit/Taxonomy: _____

Series or Phase: Perrill Drainage Class: VP

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5Y2/1</u>			<u>5.0L 1mSBK</u>
<u>6-16</u>	<u>Bg</u>	<u>2.5Y3/1</u>			<u>5.0C 2mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  <i>signature</i> # <u>14</u>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-22-2 EASTING: 584286.5 Hydric Soils Present: Yes No
DATE: 5-12-08 NORTHING: 5227381.6
TIME: 12:30

Map Unit/Taxonomy: _____
Series or Phase: Tomb Drainage Class: poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	Ap	2.5Y 2/1			sicL 1m silty
6-16	E	2.5Y 3/1			sicL 2mp

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / AI

Comments: cropland

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-22-6 EASTING: 583978.4
 DATE: 5-12-08 NORTHING: 5226928.6 Hydric Soils Present:
 Yes No
 TIME: 12:45

Map Unit/Taxonomy: _____
 Series or Phase: Tonka Drainage Class: A001
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u> <u>Ap</u>	<u>Ap</u>	<u>2.5Y2/1</u>			<u>sicL 1mSbk</u>
<u>6-12</u>	<u>E1</u>	<u>2.5Y2/1</u>			<u>sicL 3Ap1</u>
<u>12-16</u>	<u>E2</u>	<u>2.5Y3/1</u>		<u>3Cp 5YR4/3</u>	<u>sic 3Mp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: Cropped

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-22-S EASTING: 583637, 2 Hydric Soils Present:
 DATE: 5-12-08 NORTHING: 5226582.6 Yes No
 TIME: 1:30

Map Unit/Taxonomy: Tonka Drainage Class: P
 Series or Phase: _____
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y2/1			Silt 1m Sbk
7-11		2.5Y2/1		2m pL	Silt 2m pL
11-16		2.5Y3/1	2m 5YR4/2		Silt 2m pL

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input checked="" type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: Cropland

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-22-9 EASTING: ~~582458~~ 583630.9 Hydric Soils Present:
 DATE: 5-12-08 NORTHING: 5226472.9 Yes No
 TIME: 1:10

Map Unit/Taxonomy:
 Series or Phase: Forts Tonka Drainage Class: pool
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A ₀	2.5Y2/1			sic L 1m sk
7-16	E	2.5Y3/1		2.9p1	sic L 3m pl

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2B3 / All

Comments: Cropped

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson # 14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-22-10 EASTING: 583594.2 Hydric Soils Present:
 DATE: 5-12-08 NORTHING: 5226356.3 Yes No
 TIME: 1:45

Map Unit/Taxonomy:
 Series or Phase: Parrell Drainage Class: Vp007
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			sic 1mSBK
6-16	Bg	5Y2.5/1			sic L 2MSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: cat tails

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-27-1A EASTING: ~~58367.2~~ 58367.4 Hydric Soils Present: Yes No
 DATE: 5-13-08 NORTHING: 5224424.7
 TIME: 10:20

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			sick 2msbk
6-16	ABg	5Y2.5/1			sick 3msbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: depression is covered with water.

see 143-27-16

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-1B</u>	EASTING: <u>583707.9</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5224499.0</u>	
TIME: <u>10:10</u>		

Map Unit/Taxonomy: _____
 Series or Phase: garnell Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-8	A	5Y 2.5/1			SicL ^{1 m blk} many roots
8-16	Bg	5Y 2.5/1			SicL blk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: water table 4 inches
depression is water covered
see 143-27-1a

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-2</u>	EASTING: <u>585610.6</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5224784.6</u>	
TIME: <u>9:20</u>		

Map Unit/Taxonomy: Tonka

Series or Phase: _____ Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y2/1			SICK 1m5K
7-16	E	2.5Y3/1			SICK 2m-p1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: <u>cropland</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth W. Thompson #14</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-3</u>	EASTING: <u>583628, 7</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5224877, 6</u>	
TIME: <u>9:10</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Tonka</u>	Drainage Class: <u>pool</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2/1</u>			<u>silcl hm sbk</u>
<u>7-14</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>silcl 2mp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments:	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth W. Thompson #14</i> signature</p>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-4</u>	EASTING: <u>583660.5</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5224932.6</u>	
TIME: <u>9:05</u>		

Map Unit/Taxonomy: _____

Series or Phase: Tombra Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

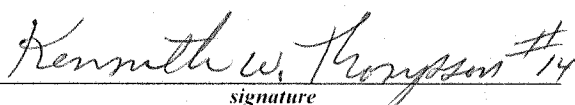
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	2.5Y2/1			sick 1m5bk
7-16	E	2.5Y3/1			sick 2mp1

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / All

Comments: <u>Cropland</u>	Kenneth Thompson, Professional Soil Classifier  <i>signature</i>
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-5</u>	EASTING: <u>583614.9</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5225202.2</u>	
TIME: <u>8:15</u>		

Map Unit/Taxonomy: Tampa

Series or Phase: _____ Drainage Class: per

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2/1</u>			<u>5:0 lo ssbk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>5:0 3 m pl</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: <u>cropland</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson #14</u> signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-6</u>	EASTING: <u>583727.1</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>05-13-08</u>	NORTHING: <u>65225192.4</u>	
TIME: <u>8:25</u>		

Map Unit/Taxonomy: _____
Series or Phase: Panell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5Y 1</u>			<u>SIC L 1m Sbk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 3/1</u>			<u>SIC L 3m Sbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-7a</u>	EASTING: <u>583900,3</u>	Hydric Soils Present:
DATE: <u>5-13-08</u>	NORTHING: <u>5225188,5</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>8:35</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: P007

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	2.5Y2/1			sic 1msbk
6-16	Bg	2.5Y3/1	10YR4/4		sic 2msbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature # 14
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-27-8</u>	EASTING: <u>584003.0</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5225739.5</u>	
TIME: <u>8:40</u>		

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: pool
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

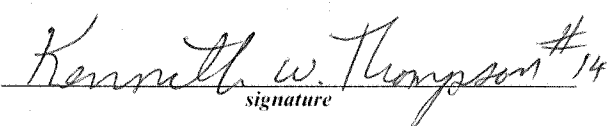
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>Ap</u>	<u>2.5Y 2/1</u>			<u>s.c 1mSBK</u>
<u>6-16</u>	<u>Bq</u>	<u>2.5Y 3/1</u>	<u>D10YR 4/1</u>	<u>m 3d</u>	<u>s.c 2mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-27-9-10-11a EASTING: 584307.910
DATE: 5-13-08 NORTHING: 572534.6
TIME: 9:40

Hydric Soils Present:
Yes [4] No []

Map Unit/Taxonomy: _____
Series or Phase: Parnell Drainage Class: Kempson
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>A</u>	<u>0-6</u>	<u>2.5Y2/1</u>			<u>S₁CL 2mSBK</u>
<u>Bg</u>	<u>6-16</u>	<u>2.5Y3/1</u>			<u>S₁C 3mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: Cottain
did not find flag
went to GPS location - line on photo
indicates the point may be in the
the center of depression, in which
case the soil is water covered &
is south of it

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson # 14
signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-27-9-10-11b EASTING: 584253-4
 DATE: 5-13-08 NORTHING: 5225275.3
 TIME: 8:45

Hydric Soils Present:
 Yes [] No []

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	5Y2.5/1			S.L 2mSBK
6-16	Bg	5Y2.5/1			S.CL 3mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3/F2

Comments: taken at flag marked 143-27-10-11
 flag 143-27-9 is in cropland
 9-10-11a and 9-10-11b may be
 reversed on forms.

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-27-12 EASTING: 584316, 6
 DATE: 5-13-08 NORTHING: 5225185, 2
 TIME: 8:50

Hydric Soils Present:
 Yes [] No []

Map Unit/Taxonomy:
 Series or Phase: Parnell Drainage Class: pool
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	2.5Y 2/1			s.c msk
6-16	Bg	2.5Y 3/1			s.c 2msk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments: Crop

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-27-14 EASTING: 583620.5 Hydric Soils Present:
 DATE: 5-13-08 NORTHING: 5224501.5 Yes [] No []
 TIME: 10:15

Map Unit/Taxonomy:
 Series or Phase: Turba Drainage Class: POD
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u> <u>AP</u>	<u>AP</u>	<u>10YR2/1</u>			<u>sicL 1mSBK</u>
<u>7-16</u>	<u>E</u>	<u>10YR3/1</u>			<u>sicL 2cpl</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / All

Comments: Flag is marked 14327-13 & not on photo
No flag for 143-27-14
This is the GPS location

Kenneth Thompson, Professional Soil Classifier
Kenneth Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-28-1</u>	EASTING: <u>58 58 3526.4</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5225919.8</u>	
TIME: <u>8:00</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parnell Drainage Class: _____

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>Sic 2mSBk</u>
<u>7-14</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>Sic 2mSBk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: <u>catclis</u> <u>No flag</u> <u>Covered with water</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson #14</u> signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-28-3 EASTING: 583540.2 Hydric Soils Present: Yes [] No []
 DATE: 5-13-08 NORTHING: 5224715.0
 TIME: 10:20

Map Unit/Taxonomy: _____ Series or Phase: Tombra Drainage Class: pool
 - OR - _____ Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>10YR2/1</u>			<u>sick 1mSbk</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y3/1</u>			<u>sick 3mp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: _____

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Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-30-1B</u>	EASTING: <u>580 287.5</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-12-08</u>	NORTHING: <u>5225931.5</u>	
TIME: <u>3:35</u>		

Map Unit/Taxonomy:

Series or Phase: <u>Parnell</u>	Drainage Class: <u>Very poor</u>
- OR -	
Taxonomy: _____	Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>


Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap		5Y2.5/1		sic 1m sbk
6-13	Btg1		5Y3/1		sic 3m sbk
13-16	Btg2		5Y4/2		sic 1m sbk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-30-1A EASTING: 580301.7 Hydric Soils Present: Yes No
 DATE: 5-12-08 NORTHING: 5225847.9
 TIME: 3:45

Map Unit/Taxonomy: _____
 Series or Phase: Towhee Drainage Class: pool
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y2/1</u>	<u>2.5Y2/1</u>		<u>silt 1m56k</u>
<u>7-14</u>	<u>E</u>	<u>2.5Y3/1</u>	<u>2.5Y3/1</u>		<u>silt 3mp1</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2B3 / A11

Comments: Flag not marked
cropland

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Kenneth W. Thompson
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-30-2 EASTING: 580304.3
DATE: 5-12-08 NORTHING: 5225534.7 Hydric Soils Present:
TIME: 14:50 Yes No

Map Unit/Taxonomy:
Series or Phase: Pernell Drainage Class: VA Very Poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16	A _g	5Y2.5/1			S.c.L 3m ⁵ b _x

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input checked="" type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 1F2

Comments: cattail
water table @ 6 in.

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-32-3 EASTING: 581830.0 Hydric Soils Present: Yes No
 DATE: 5-12-08 NORTHING: 5223836.9
 TIME: 5:45

Map Unit/Taxonomy: _____
 Series or Phase: Tonka Drainage Class: Pool
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes [] No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>Ap</u>	<u>2.5Y 3/1</u>			<u>SiCL 1m SBK</u>
<u>7-16</u>	<u>E</u>	<u>2.5Y 3/1</u>			<u>SiCL 2MPL</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: Cropland

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
 signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-32-8</u>	EASTING: <u>58114.5</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-12-08</u>	NORTHING: <u>5223948.6</u>	
TIME: <u>4:30</u>		

Map Unit/Taxonomy: _____

Series or Phase: Tonka Drainage Class: Pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	AP	2.5Y2/1			sicL 1msbk
7-16	E	2.5Y3/1			sicL 3mpk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / All

Comments: <u>Not flagged cropland</u>	Kenneth Thompson, Professional Soil Classifier <u>Kenneth W. Thompson #14</u> <i>signature</i>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-32-10 EASTING: 580571.5 Hydric Soils Present: Yes [] No []
DATE: 5-12-08 NORTHING: 5224019.3
TIME: 5:20

Map Unit/Taxonomy: Tonka Drainage Class: P
Series or Phase: _____
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A _g	2.5Y2/1 10YR			S:CL 1m Sbk
6-11	E1	2.5Y3/1			S:CL 2Mpl
11-16	E2	2.5Y3/1		M2d 5YR 4/2	S:CL 3Mpl

USACE Hydric Soil Indicators:

- | | |
|---|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input checked="" type="checkbox"/> Aquic Moisture Regime | <input checked="" type="checkbox"/> Listed on Local Hydric Soils List |
| <input checked="" type="checkbox"/> Reducing Conditions | <input checked="" type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Comments) |

USDA Hydric Soils Field Indicator:

2b3 / All

Comments:

cropped
7 bags not marked

Kenneth Thompson, Professional Soil Classifier

Kenneth W. Thompson
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-33-6</u>	EASTING: <u>582539.2</u>	Hydric Soils Present: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
DATE: <u>5-13-08</u>	NORTHING: <u>5223482.5</u>	
TIME: <u>3:00</u>		

Map Unit/Taxonomy:

Series or Phase: Parnell Drainage Class: pool

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	2.5Y2/1			SIC 2mSBK
6-11	Bg1	2.5Y2/1			SIC 3mSBK
11-16	Bg2	2.5Y2/1	10YR 4/4	3mcl	SIC 2mSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: <u>Cropped</u>	<p style="text-align: center;">Kenneth Thompson, Professional Soil Classifier</p> <p style="text-align: center;"><i>Kenneth W. Thompson #14</i> signature</p>
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-33-10</u>	EASTING: <u>582921.4</u>	Hydric Soils Present: Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]
DATE: <u>5-13-08</u>	NORTHING: <u>5223819.1</u>	
TIME: <u>2:45</u>		

Map Unit/Taxonomy: _____
Series or Phase: Parnell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5Y2/1</u>			<u>sic 2m sbk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>sic 3m sbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263/F3

Comments: no flag

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-33-11</u>	EASTING: <u>5830021</u>	Hydric Soils Present:
DATE: <u>5-13-08</u>	NORTHING: <u>522939.2</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TIME: <u>2:00</u>		

Map Unit/Taxonomy: _____

Series or Phase: Parrell Drainage Class: poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes No

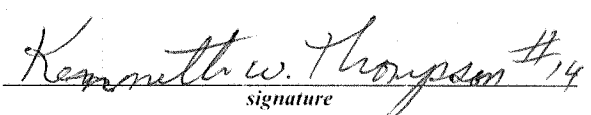
Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR2/1</u>			<u>SIC 2msbk</u>
<u>6-16</u>	<u>Bg</u>	<u>2.5Y2/1</u>			<u>SIC 3msbk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments:	Kenneth Thompson, Professional Soil Classifier  signature
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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-33-012 EASTING: 583116
DATE: 5-13-08 NORTHING: 5723862
TIME: 2:20

Hydric Soils Present:
Yes No

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	10YR2/1			SIC 1m SBK
6-16	Bg	2.5Y2/1			SIC 2m SBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F12

Comments: no flag

Kenneth Thompson, Professional Soil Classifier
Kenneth W. Thompson #14
signature

Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-33-13 EASTING: 583220.2
DATE: 5-13-08 NORTHING: 5223998.1 Hydric Soils Present:
TIME: 1:50 Yes No

Map Unit/Taxonomy: _____
Series or Phase: Parnell Drainage Class: P
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A _p	10YR2/1			Sic 1m5bk
7-14	B _g	2.5Y2/1			Sic 3m5bk

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 263 / F3

Comments: Cropland

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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: <u>143-34-2</u>	EASTING: <u>5839¹³²137</u>	Hydric Soils Present: Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]
DATE: <u>5-13-08</u>	NORTHING: <u>520341846</u>	
TIME: <u>12:30</u>	<u>5223327.1</u>	

Map Unit/Taxonomy:

Series or Phase: Southern Drainage Class: U poor

- OR -

Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>water covered</u>					

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A9

Comments: catclad along edge of wetland site is on west side of corridor

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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-34-3 EASTING: 5833524639.4 Hydric Soils Present: Yes No
DATE: 5-13-08 NORTHING: 5203415016 5223890.1
TIME: _____

Map Unit/Taxonomy: _____
Series or Phase: Pennell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y 2.5/1</u>			<u>SiCL 2mSBk</u>
<u>6-16</u>	<u>Bg</u>	<u>5Y 2.5/1</u>			<u>SiC 3mSBk</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / R3

Comments: majority of wetland is covered with water

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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-³⁴25-5 EASTING: 583645.5 Hydric Soils Present:
 DATE: 5-13-08 NORTHING: 5224363.6 Yes No
 TIME: 11:00

Map Unit/Taxonomy: _____
 Series or Phase: Parnell Drainage Class: Very poor
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>5Y2.5/1</u>			<u>SIC 1mSBK</u>
<u>6-14</u>	<u>Bg</u>	<u>5Y2.5/1</u>			<u>SIC 3mSBK</u>

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 253/F3

Comments: No flag

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Data Form
Routine Wetland Determination
(1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-34-6 EASTING: 553 ~~552.4~~ ^{928.2} Hydric Soils Present: Yes [] No []
DATE: 5-13-08 NORTHING: 5293418.6
TIME: 1:20 8223888.3

Map Unit/Taxonomy:
Series or Phase: Parnell Drainage Class: Very poor
- OR -
Taxonomy: _____ Confirm Mapped Type? Yes [] No []

Profile Description:


Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	5Y 2.5/1			SIC 1MSBK
7-16	Bg	5Y 2.5/1	3CP 2.5Y	4/4	SIC 3MSBK

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / F3

Comments:

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Data Form
Routine Wetland Determination
 (1987 COE Wetlands Delineation Manual)

SOIL DESCRIPTION

SITE ID: 143-34-8 EASTING: 583352.4 ⁶⁵⁰³
 DATE: 5-13-08 NORTHING: 570418.6
 TIME: 1:00 522309.1

Hydric Soils Present:
 Yes No

Map Unit/Taxonomy:
 Series or Phase: Tonka Drainage Class: P
 - OR -
 Taxonomy: _____ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Ap	10YR3/1			siccl 1m SBK
7-13	E1	2.5Y3/1			siccl 3 fpi
13-16	E2	2.5Y4/3			siccl 3 mpi

USACE Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Listed on Local Hydric Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Comments)

USDA Hydric Soils Field Indicator: 2b3 / A11

Comments: _____

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