

APPENDIX A

U.S. ARMY CORPS OF ENGINEERS DATA SHEETS

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MORLEY SILT LOAM, 2-6% SLOPES

Drainage Class WD

Taxonomy (Subgroup) TYPIC HAPLUDELFs

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11		10YR 3/2	-	-	SICL
11>18		10YR 5/4	-	-	SICL

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 Soil |
| <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 |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <u>Yes</u> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <u>No</u>	Transect ID: _____
Is the site a potential problem area? Yes <u>No</u>	Plot ID: <u>W3-P2</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <i>Phalaris arundinacea</i>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. <i>Viburnum lentago</i>	<u>S</u>	<u><5</u>	<u>FAC+</u>
2. <i>Acer saccharinum</i>	<u>T</u>	<u>50</u>	<u>FACW</u>	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks:

HYDROLOGY

<p><input type="checkbox"/> Recorded Data (Describe in Remarks)</p> <p style="padding-left: 20px;"><input type="checkbox"/> Stream, Lake, or Tide Gauge</p> <p style="padding-left: 20px;"><input checked="" type="checkbox"/> Aerial Photographs</p> <p style="padding-left: 20px;"><input type="checkbox"/> Other</p> <p><input type="checkbox"/> No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p style="padding-left: 20px;">Depth of Surface Water: <u>0</u> (in)</p> <p style="padding-left: 20px;">Depth to Free Water in Pit: <u>>18</u> (in)</p> <p style="padding-left: 20px;">Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in Upper 12 inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p><input type="checkbox"/> Oxidized Root Channels</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (explain in remarks)</p>
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 3/1	-	-	SIL

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 Soil |
| <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 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 |

Remarks: A12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W3-P3</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>95</u>	<u>FACW+</u>	1. <u>Typha x glauca</u>	<u>H</u>	<u>5</u>	<u>OBL</u>
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p><input checked="" type="checkbox"/> Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10YR 2/1	7.5YR 5/8	ROOT CHANNELS FEW/PROMINENT	SICL

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 Soil |
| <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 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 |

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No <small>LANDFILL GRADING</small>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> <input checked="" type="radio"/> No	Plot ID: <u>W3-P4</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>60</u>	<u>FACW+</u>	1. <u>Agrostis gigantea</u>	<u>H</u>	<u>10</u>	<u>FACW</u>
2. <u>Poa pratensis</u>	<u>H</u>	<u>20</u>	<u>FAC-</u>	2. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
3. _____	_____	_____	_____	3. <u>Daucus carota</u>	<u>H</u>	<u><5</u>	<u>UPL</u>
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 50%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
<p>Remarks: <u>SAMPLE POINT IS APPROX. 24 INCHES HIGHER THAN ADJACENT WETLAND.</u></p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): ELLIOTT SILT LOAM Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUDDOLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-10</u>	_____	<u>10YR3/1</u>	<u>---</u>	<u>---</u>	<u>SICL</u>
<u>10>18</u>	_____	<u>2.5Y5/3</u>	<u>---</u>	<u>---</u>	<u>SICL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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 Soil
<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 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

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input checked="" type="radio"/> No <input type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W3-P5</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <i>Phalaris arundinacea</i>	H	40	FACW+	1. _____	_____	_____	_____
2. <i>Eleocharis palustris</i>	H	40	OBL	2. _____	_____	_____	_____
3. <i>Euthamia graminifolia</i>	H	20	FACW-	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC MAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR 2/1	—	—	SICL
6-18		5Y 7/4	10YR 5/8	FEW/PROMINENT	C

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 Soil |
| <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 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 |

Remarks: F2 LOAMY GLEYED MATRIX

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes No		
Hydric Soils Present	<input checked="" type="radio"/> Yes No		
Remarks:			

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLOQUOLLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0>18</u>		<u>10YR2/1</u>	<u>-</u>	<u>-</u>	<u>SICL</u>

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 Soil
<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 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

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		10YR 2/1	---	---	SICL
14>18		10YR 2/1	5Y 5/3	COMMON/PROMINENT	SICL

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 Soil |
| <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 checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other |

Remarks: F3 DEPLETED MATRIX

WETLAND DETERMINATION

<p style="text-align: center;">(Circle)</p> <p>Hydrophytic Vegetation Present <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Wetland Hydrology Present <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Hydric Soils Present <input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p style="text-align: center;">(Circle)</p> <p>Is This Sampling Point in a Wetland <input checked="" type="radio"/> Yes <input type="radio"/> No</p>
<p>Remarks:</p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		10YR 2/1	—	—	SIL
12-24		5Y 3/2	—	—	CL

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 Soil |
| <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 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 |

Remarks: F 3 DEPLETED MATRIX

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 25, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No <small>EARTHWORK IN AREA, FILL</small>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W4-P3</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Festuca arundinacea</u>	<u>H</u>	<u>40</u>	<u>FACU+</u>	1. <u>Rumex crispus</u>	<u>H</u>	<u>10</u>	<u>FAC+</u>
2. <u>Solidago canadensis</u>	<u>H</u>	<u>20</u>	<u>FACU</u>	2. <u>Medicago sativa</u>	<u>H</u>	<u>10</u>	<u>UPL</u>
3. <u>Agrostis gigantea</u>	<u>H</u>	<u>20</u>	<u>FACW</u>	3. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 33%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ELLIOTT SILT LOAM

Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 2/1	—	—	SIL, FILL AREA

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 Soil |
| <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 type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other |

Remarks: A 12 THICK DARK SURFACE
SOIL APPEARS TO BE AN ASHKUM INCLUSION PROFILE.

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input checked="" type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) Yes <input checked="" type="radio"/> No
Wetland Hydrology Present	Yes <input checked="" type="radio"/> No		Yes <input checked="" type="radio"/> No
Hydric Soils Present	<input checked="" type="radio"/> Yes No		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 25, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No	Plot ID: <u>W4-P4</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Poa pratensis</u>	<u>H</u>	<u>40</u>	<u>FAC-</u>	1. <u>Agrostis gigantea</u>	<u>H</u>	<u>10</u>	<u>FACW</u>
2. <u>Helianthus grosseserratus</u>	<u>H</u>	<u>20</u>	<u>FACW-</u>	2. <u>Aster novae-angliae</u>	<u>H</u>	<u><5</u>	<u>FACW</u>
3. <u>Euthamia graminifolia</u>	<u>H</u>	<u>20</u>	<u>FACW-</u>	3. <u>Aster pilosus</u>	<u>H</u>	<u><5</u>	<u>FACU+</u>
4. _____	_____	_____	_____	4. <u>Solidago riddellii</u>	<u>H</u>	<u><5</u>	<u>OBL</u>
5. _____	_____	_____	_____	5. <u>Scirpus pendulus</u>	<u>H</u>	<u><5</u>	<u>OBL</u>
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 67%

Remarks: _____

HYDROLOGY

<p>____ Recorded Data (Describe in Remarks)</p> <p>____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>____ Other</p> <p>____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>____ Inundated</p> <p>____ Saturated in Upper 12 inches</p> <p>____ Water Marks</p> <p>____ Drift Lines</p> <p>____ Sediment Deposits</p> <p>____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>____ Oxidized Root Channels</p> <p>____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>____ Other (explain in remarks)</p>
<p>Remarks: <u>TOPOGRAPHIC LOW AREA</u></p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:
(_____) (Series and Phase): ASHKUM SILTY CLAY LOAM Drainage Class PD
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11		10YR 2/1			SICL
11>18		5Y 5/1	2.5Y 6/8	MANY/PROMINENT	C

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 Soil
<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 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

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10		10YR 3/2	—	—	SIL
10-18		10YR 5/8	—	—	SIL

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 Soil |
| <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 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 |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		N7.5/0			MUCK

Hydric Soil Indicators:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soil |
| <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 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 |

Remarks: A1 HISTOSOL

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____
(Sequence and Phase): ASHKUM SILTY CLAY LOAM Drainage Class PD
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-10</u>		<u>10YR 3/2</u>	<u>-</u>	<u>-</u>	<u>SICL</u>
<u>10-18</u>		<u>5Y 5/1</u>	<u>5Y 5/8</u>	<u>MAJ/PR</u>	<u>CL</u>

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 Soil |
| <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 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 |

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soils Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): ASHKUM SILTY CLAY LOAM Drainage Class PD

Taxonomy (Subgroup): TYPIC HAPLAQUOLLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-12</u>		<u>N 2.5/0</u>			<u>MUCK</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:

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

Remarks: A1 HISTOSOL

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes No	Is This Sampling Point in a Wetland <input checked="" type="radio"/> Yes No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes No	
Hydric Soils Present	<input checked="" type="radio"/> Yes No	
Remarks:		

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DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No ^{FARMED} WETLAND	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W5-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Glycine max</u>	<u>H</u>	<u>30</u>	<u>UPL</u>	1. <u>Pennisetum glaucum</u>	<u>H</u>	<u>10</u>	<u>FAC+</u>
2. <u>Thlaspi arvense</u>	<u>H</u>	<u>30</u>	<u>UPL</u>	2. <u>Daucus carota</u>	<u>H</u>	<u>5</u>	<u>UPL</u>
3. _____	_____	_____	_____	3. <u>Fragaria virginiana</u>	<u>H</u>	<u>5</u>	<u>FAC-</u>
4. _____	_____	_____	_____	4. <u>Poa pratensis</u>	<u>H</u>	<u><5</u>	<u>FAC-</u>
5. _____	_____	_____	_____	5. <u>Solidago canadensis</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
6. _____	_____	_____	_____	6. <u>Sonchus arvensis</u>	<u>H</u>	<u><5</u>	<u>FAC-</u>
7. _____	_____	_____	_____	7. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
<p>Remarks: <u>TOPOGRAPHIC LOW AREA</u></p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		10YR2/1	---	---	SICL
14-18		50% 10YR2/1	---	---	SICL
		50% 10YR3/3	---	---	SICL

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 Soil |
| <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 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 |

Remarks:

WETLAND DETERMINATION

<p style="text-align: center;">(Circle)</p> <p>Hydrophytic Vegetation Present Yes <input checked="" type="radio"/> No</p> <p>Wetland Hydrology Present Yes <input checked="" type="radio"/> No</p> <p>Hydric Soils Present Yes <input checked="" type="radio"/> No</p>	<p style="text-align: center;">(Circle)</p> <p>Is This Sampling Point in a Wetland Yes <input checked="" type="radio"/> No</p>
<p>Remarks:</p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No <small>MAN-INDUCED DUE TO NEW DRAIN PATTERNS</small>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W6A-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Typha x glauca</u>	<u>H</u>	<u>20</u>	<u>OBL</u>	1. <u>Bidens comosus</u>	<u>H</u>	<u>10</u>	<u>FACW</u>
2. <u>Echinochloa crusgalli</u>	<u>H</u>	<u>60</u>	<u>FACW</u>	2. <u>Setaria viridis</u>	<u>H</u>	<u>10</u>	<u>FAC-</u>
3. _____	_____	_____	_____	3. <u>Aster lanceolatus</u>	<u>H</u>	<u><5</u>	<u>FACW</u>
4. _____	_____	_____	_____	4. <u>Polygonum hydropiper</u>	<u>H</u>	<u><5</u>	<u>OBL</u>
5. _____	_____	_____	_____	5. <u>Alisma subcordatum</u>	<u>H</u>	<u><5</u>	<u>OBL</u>
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: <u>TOPOGRAPHIC LOW AREA</u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		10YR 2/1	-	-	SICL
12		5GY 7/1	10YR 6/8	MANY/PROMINENT	C (~ 1/4 IN. THICK)
12 > 18		10YR 2/1	-	-	C

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 Soil |
| <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 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 |

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): ASHKUM SILTY CLAY LOAM Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4		10YR 3/1	—	—	SICL
4>18		10YR 4/3	—	—	SIL

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 Soil
<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 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

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____
 (Series and Phase): ELLIOTT SILT LOAM Drainage Class SPD
 Taxonomy (Subgroup) AQUIC ARGIUDDOLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR 3/1	---	---	SICL
6>18		10YR 3/3	---	---	SIL

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 Soil |
| <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 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 |

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ELLIOTT SILT LOAM

Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUDDOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3		10YR 2/1	-	-	SICL
3>18		5Y 6/3	10YR 6/8	MANY/PROMINENT	CL

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 Soil |
| <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 type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other |

Remarks: F2 LOAMY GLEYED MATRIX

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes No		
Hydric Soils Present	<input checked="" type="radio"/> Yes No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ELLIOTT SILT LOAM

Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3		10YR 4/3	—	—	SIL
3>18		10YR 3/3	—	—	SIL

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 Soil |
| <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 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 |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> Yes <input type="radio"/> No ^{FARMED} NOWETLAND	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W7-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Glycine max</u>	<u>H</u>	<u>40</u>	<u>UPL</u>	1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>10</u>	<u>FACW+</u>
2. <u>Scirpus fluviatilis</u>	<u>H</u>	<u>20</u>	<u>OBL</u>	2. <u>Rumex crispus</u>	<u>H</u>	<u><5</u>	<u>FAC+</u>
3. <u>Cyperus esculentus</u>	<u>H</u>	<u>20</u>	<u>FACW</u>	3. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
4. _____	_____	_____	_____	4. <u>Ambrosia trifida</u>	<u>H</u>	<u><5</u>	<u>FAC+</u>
5. _____	_____	_____	_____	5. <u>Daucus carota</u>	<u>H</u>	<u><5</u>	<u>UPL</u>
6. _____	_____	_____	_____	6. <u>Permesetum glaucum</u>	<u>H</u>	<u><5</u>	<u>FAC+</u>
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 67%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>____ Other</p> <p>____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>____ Inundated</p> <p>____ Saturated in Upper 12 inches</p> <p>____ Water Marks</p> <p>____ Drift Lines</p> <p>____ Sediment Deposits</p> <p>____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>____ Oxidized Root Channels</p> <p><input checked="" type="checkbox"/> Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>____ Other (explain in remarks)</p>
<p>Remarks: <u>TOPOGRAPHIC DEPRESSION</u></p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ELLIOTT SILT LOAM

Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUDDOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		2.5Y 5/2	—	—	SICL
8>18		10YR 2/1	—	—	SICL

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 Soil |
| <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 type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other |

Remarks: ALL DEPLETED BELOW DARK SURFACE
PROFILE FITS ASTRUM SILTY CLAY INCLUSIONS.

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

SOILS

Map Unit Name: _____
 (Series and Phase): MORLEY SILT LOAM Drainage Class WD
 Taxonomy (Subgroup): TYPIC HAPLUDALS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 3/1	-	-	SL
8>18		2.5Y 6/3	10YR 6/8	COMMON/PROMINENT	SL

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 Soil
<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

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W9-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Poa pratensis</u>	<u>H</u>	<u>90</u>	<u>FAC-</u>	1. <u>Solidago canadensis</u>	<u>H</u>	<u>5</u>	<u>FACU</u>
2. _____	_____	_____	_____	2. <u>Helianthus grosseserratus</u>	<u>H</u>	<u>5</u>	<u>FACW-</u>
3. _____	_____	_____	_____	3. <u>Geum macrophyllum</u>	<u>H</u>	<u><5</u>	<u>FACW4</u>
4. _____	_____	_____	_____	4. <u>Solidago gigantea</u>	<u>H</u>	<u><5</u>	<u>FACW</u>
5. _____	_____	_____	_____	5. <u>Achillea millefolium</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
6. _____	_____	_____	_____	6. <u>Fragaria virginiana</u>	<u>H</u>	<u><5</u>	<u>FAC-</u>
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MORLEY SILT LOAM, ERODED

Drainage Class WD

Taxonomy (Subgroup) TYPIC HAPLUDALS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 3/1	-	-	SICL
8>20		2.5Y 5/4	-	-	CL

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 Soil |
| <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 |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W9-P2</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>90</u>	<u>FACW+</u>	1. <u>Carex lacustris</u>	<u>H</u>	<u>10</u>	<u>OBL</u>
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): ASHKUM SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 2/1	-	-	SICL
8>18		10YR 2/1	5GY 5/1 DEPLETIONS	MANY/PROMINENT	CL
			10YR 5/8 REDOX	FEW/PROMINENT	

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 Soil |
| <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 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 |

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W9A-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Poa pratensis</u>	<u>H</u>	<u>90</u>	<u>FAC-</u>	1. <u>Daucus carota</u>	<u>H</u>	<u>5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Aster pilosus</u>	<u>H</u>	<u>5</u>	<u>FACU+</u>
3. _____	_____	_____	_____	3. <u>Spartina pectinata</u>	<u>H</u>	<u><5</u>	<u>FACW+</u>
4. _____	_____	_____	_____	4. <u>Euthamia graminifolia</u>	<u>H</u>	<u><5</u>	<u>FACW-</u>
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class SPD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR2/1	—	—	SIL
6>18		5Y5/1	—	—	SIL

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 Soil |
| <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 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 |

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 26, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W9A-P2</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. <u>Carex striata</u>	<u>H</u>	<u><5"</u>	<u>OBL</u>
2. _____	_____	_____	_____	2. <u>Solidago gigantea</u>	<u>H</u>	<u><5"</u>	<u>FACW</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:
(Sequence and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
Taxonomy (Subgroup) TYPIC HAPLAGROUOLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0>18</u>		<u>10YR 2/1</u>	<u>-</u>	<u>-</u>	<u>SICL</u>

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 Soil
<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 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

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes No		
Hydric Soils Present	<input checked="" type="radio"/> Yes No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W9-P3</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Solidago canadensis</u>	<u>H</u>	<u>30</u>	<u>FACU</u>	1. <u>Daucus carota</u>	<u>H</u>	<u><5</u>	<u>UPL</u>
2. <u>Melilotus alba</u>	<u>H</u>	<u>30</u>	<u>FACU</u>	2. <u>Euthamia graminifolia</u>	<u>H</u>	<u><5</u>	<u>FACW-</u>
3. <u>Ambrosia trifida</u>	<u>H</u>	<u>20</u>	<u>FAC+</u>	3. _____	_____	_____	_____
4. <u>Cirsium arvense</u>	<u>H</u>	<u>20</u>	<u>FACU</u>	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 25%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PO

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 2/1	—	—	SIL
8>18		2.5Y 5/3	—	—	SIL

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 Soil |
| <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 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 |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W9-P4</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>80</u>	<u>FACW+</u>	1. _____	_____	_____	_____
2. <u>Helianthus grosseserratus</u>	<u>H</u>	<u>20</u>	<u>FACW-</u>	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>____ Other</p> <p>____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>> 18</u> (in)</p> <p>Depth to Saturated Soil: <u>> 18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>____ Inundated</p> <p>____ Saturated in Upper 12 inches</p> <p>____ Water Marks</p> <p>____ Drift Lines</p> <p>____ Sediment Deposits</p> <p>____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>____ Oxidized Root Channels</p> <p>____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>____ Other (explain in remarks)</p>
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4		10YR 2/1	—	—	SIL
4>18		5GY 6/1	10YR 6/8	COMMON/PROMINENT	SICL

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 Soil |
| <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 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 |

Remarks: F 2 LOAMY GLEYED MATRIX

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W9-PS</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Glycine max</u>	<u>H</u>	<u>100</u>	<u>UPL</u>	1. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
2. _____	_____	_____	_____	2. <u>Daucus carota</u>	<u>H</u>	<u><5</u>	<u>UPL</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>_____ Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-14		10YR 3/1	---	---	SIL
14>18		2.5Y 6/2	-	-	SICL

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 Soil |
| <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 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 |

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 27, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W9-PC6</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Glycine max</u>	<u>H</u>	<u>100</u>	<u>UPL</u>	1. <u>Phalaris arundinacea</u>	<u>H</u>	<u><5</u>	<u>FACW+</u>
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0%*

Remarks: FARMED WETLAND; WEEDS ARE WETLAND SPECIES

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>12</u> (in)</p> <p>Depth to Saturated Soil: <u>>12</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:		(Series and Phase): <u>MUSKEGO MUCK</u>		Drainage Class <u>VPD</u>	
Taxonomy (Subgroup) <u>Limnic Medisaprists</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Profile Description					
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0>12</u>		<u>N 2.5/0</u>	<u>-</u>	<u>-</u>	<u>MUCK</u>
Hydric Soil Indicators:					
<input checked="" type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soil			
<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 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			
Remarks: <u>A 1 HISTOSOL</u>					

WETLAND DETERMINATION

<table style="width: 100%;"> <tr> <td style="width: 30%;">Hydrophytic Vegetation Present</td> <td style="width: 10%; text-align: center;">(Circle)</td> <td style="width: 10%; text-align: center;"><input checked="" type="radio"/> Yes</td> <td style="width: 10%; text-align: center;">No</td> </tr> <tr> <td>Wetland Hydrology Present</td> <td style="text-align: center;">(Circle)</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center;">No</td> </tr> <tr> <td>Hydric Soils Present</td> <td style="text-align: center;">(Circle)</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center;">No</td> </tr> </table>	Hydrophytic Vegetation Present	(Circle)	<input checked="" type="radio"/> Yes	No	Wetland Hydrology Present	(Circle)	<input checked="" type="radio"/> Yes	No	Hydric Soils Present	(Circle)	<input checked="" type="radio"/> Yes	No	<table style="width: 100%;"> <tr> <td style="width: 70%;"></td> <td style="width: 10%; text-align: center;">(Circle)</td> <td style="width: 20%;"></td> </tr> <tr> <td>Is This Sampling Point in a Wetland</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td style="text-align: center;">No</td> </tr> </table>		(Circle)		Is This Sampling Point in a Wetland	<input checked="" type="radio"/> Yes	No
Hydrophytic Vegetation Present	(Circle)	<input checked="" type="radio"/> Yes	No																
Wetland Hydrology Present	(Circle)	<input checked="" type="radio"/> Yes	No																
Hydric Soils Present	(Circle)	<input checked="" type="radio"/> Yes	No																
	(Circle)																		
Is This Sampling Point in a Wetland	<input checked="" type="radio"/> Yes	No																	
Remarks: <u>ACTIVELY FARMED WETLAND</u>																			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 25, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>90</u>	<u>UPL</u>	1. <u>Glycine max</u>	<u>H</u>	<u>5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Taraxacum officinale</u>	<u>H</u>	<u>5</u>	<u>FACU</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>_____ Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

SOILS

Map Unit Name:
 (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
 Taxonomy (Subgroup): TYPIC HAPLAQUOLLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0>18</u>		<u>10YR 2/1</u>	<u>—</u>	<u>—</u>	<u>SIL</u>

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 Soil
<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 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

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 25, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P2</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. _____	_____	_____	_____
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators Primary Indicators <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels <input type="checkbox"/> Water-Stained Leaves <input checked="" type="checkbox"/> Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in) Depth to Free Water in Pit: <u>>18</u> (in) Depth to Saturated Soil: <u>>18</u> (in)	
Remarks:	

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

SOILS

Map Unit Name:
 (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
 Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-16		10YR 2/1			SCL
16-18		N 4/0			CL

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 Soil
<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 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

Remarks: A1Z - THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P3</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>95</u>	<u>UPL</u>	1. <u>Glycine max</u>	<u>H</u>	<u>5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Plantago major</u>	<u>H</u>	<u><5</u>	<u>FACT</u>
3. _____	_____	_____	_____	3. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0 %

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 3/1	—	—	SICL
8>18		5Y 5/2	10YR 6/8	COMMON/PROMINENT	SICL

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 Soil |
| <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 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 |

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P4</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. <u>Helianthus grosseserratus</u>	<u>H</u>	<u><5</u>	<u>FACW-</u>
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____
 (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
 Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0>18</u>		<u>10YR 2/1</u>	<u>---</u>	<u>-</u>	<u>SICL</u>

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 Soil
<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 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

Remarks: A12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W10-PS</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>95</u>	<u>UPL</u>	1. <u>Glycine max</u>	<u>H</u>	<u>5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Sonchus arvensis</u>	<u>H</u>	<u><5</u>	<u>FAC-</u>
3. _____	_____	_____	_____	3. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): MARTINTON SILT LOAM Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUDDOLLS Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>		<u>10YR 2/1</u>	<u>---</u>	<u>---</u>	<u>SIL</u>
<u>5>18</u>		<u>10YR 3/2</u>	<u>---</u>	<u>---</u>	<u>SIL</u>

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 Soil
<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 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

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P6</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. _____	_____	_____	_____
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____
 (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
 Taxonomy (Subgroup): TYPIC HAPLAQUOLLS Field Observations Confirm Mapped Type? Yes No

<u>Profile Description</u>					
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0>18</u>		<u>10YR 2/1</u>	<u>—</u>	<u>—</u>	<u>SICL</u>

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 Soil
<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 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

Remarks: A 12-THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present <input checked="" type="radio"/> Yes <input type="radio"/> No	(Circle) Is This Sampling Point in a Wetland <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberg</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P7</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. _____	_____	_____	_____
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC
(excluding FAC-). 100%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks:	

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

SOILS

Map Unit Name:					
(Series and Phase):		MONTGOMERY SILTY CLAY LOAM		Drainage Class PD	
Taxonomy (Subgroup):		TYPIC HAPLAQUOLLS		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Profile Description					
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 2/1	—	—	SICL
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 Soil			
<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 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			
Remarks: A12 - THICK DARK SURFACE					

WETLAND DETERMINATION

<table style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="text-align: center;">(Circle)</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td>Hydrophytic Vegetation Present</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td>No</td> <td></td> <td></td> </tr> <tr> <td>Wetland Hydrology Present</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td>No</td> <td></td> <td></td> </tr> <tr> <td>Hydric Soils Present</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td>No</td> <td></td> <td></td> </tr> </table>		(Circle)				Hydrophytic Vegetation Present	<input checked="" type="radio"/> Yes	No			Wetland Hydrology Present	<input checked="" type="radio"/> Yes	No			Hydric Soils Present	<input checked="" type="radio"/> Yes	No			<table style="width: 100%;"> <tr> <td style="width: 70%;"></td> <td style="text-align: center;">(Circle)</td> <td style="width: 30%;"></td> </tr> <tr> <td>Is This Sampling Point in a Wetland</td> <td style="text-align: center;"><input checked="" type="radio"/> Yes</td> <td>No</td> </tr> </table>		(Circle)		Is This Sampling Point in a Wetland	<input checked="" type="radio"/> Yes	No
	(Circle)																										
Hydrophytic Vegetation Present	<input checked="" type="radio"/> Yes	No																									
Wetland Hydrology Present	<input checked="" type="radio"/> Yes	No																									
Hydric Soils Present	<input checked="" type="radio"/> Yes	No																									
	(Circle)																										
Is This Sampling Point in a Wetland	<input checked="" type="radio"/> Yes	No																									
Remarks:																											

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P8</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>100</u>	<u>UPL</u>	1. <u>Glycine max</u>	<u>H</u>	<u><5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks:

HYDROLOGY

<p>_____ Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Remarks:</p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): MATINTON SILT LOAM Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGUDOLLS Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6		10YR3/1	---	---	SIL
6-18		10YR3/3	-	-	SIL

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 Soil
<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 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

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks: _____			

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W10-P9</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Salix exigua</u>	<u>S</u>	<u>20</u>	<u>OBL</u>	1. <u>Solidago canadensis</u>	<u>H</u>	<u>10</u>	<u>FACU</u>
2. <u>Cornus racemosa</u>	<u>S</u>	<u>20</u>	<u>FACW-</u>	2. _____	_____	_____	_____
3. <u>Cornus stolonifera</u>	<u>S</u>	<u>20</u>	<u>FACW</u>	3. _____	_____	_____	_____
4. <u>Poa pratensis</u>	<u>H</u>	<u>40</u>	<u>FAC-</u>	4. _____	_____	_____	_____
5. <u>Phalaris arundinacea</u>	<u>H</u>	<u>20</u>	<u>FACW+</u>	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 80%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p><input checked="" type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 2/1	---	---	SICL

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 Soil |
| <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 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 |

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W10-P10</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Poa pratensis</u>	<u>H</u>	<u>80</u>	<u>FAC-</u>	1. <u>Fragaria virginiana</u>	<u>H</u>	<u>25</u>	<u>FAC-</u>
2. <u>Solidago canadensis</u>	<u>H</u>	<u>20</u>	<u>FACU</u>	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 0%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): SAYLESVILLE SILT LOAM

Drainage Class WD

Taxonomy (Subgroup) TYPIC HAPLUDALS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-18		10YR 2/1			SICL

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 Soil |
| <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 checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other |

Remarks: A 12 THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks:

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W11-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>100</u>	<u>UPL</u>	1. <u>Glycine max</u>	<u>H</u>	<u><5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>_____ Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><u>X</u> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-8</u>	_____	<u>10YR 2/1</u>	<u>—</u>	<u>—</u>	<u>SICL</u>
<u>8>18</u>	_____	<u>5Y 5/1</u>	<u>10YR 6/8</u>	<u>FEW/PROMINENT</u>	<u>SICL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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 Soil
<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 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

Remarks: ALL - DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W11-P2</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>30</u>	<u>OBL</u>	1. <u>Cornus stolonifera</u>	<u>S</u>	<u>45</u>	<u>FACW</u>
2. <u>Phalaris arundinacea</u>	<u>H</u>	<u>20</u>	<u>FACW+</u>	2. _____	_____	_____	_____
3. <u>Aster lateriflorus</u>	<u>H</u>	<u>20</u>	<u>FACW-</u>	3. _____	_____	_____	_____
4. <u>Solidago gigantea</u>	<u>H</u>	<u>20</u>	<u>FACW</u>	4. _____	_____	_____	_____
5. <u>Salix exigua</u>	<u>S</u>	<u>25</u>	<u>OBL</u>	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks:	

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

SOILS

Map Unit Name:
 (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
 Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-4		10YR2/1	—	—	SICL
4-18		N 3/0	—	—	CL

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 Soil
<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 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

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? Yes <input checked="" type="radio"/> No <input type="radio"/>	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W11-P3</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>60</u>	<u>OBL</u>	1. <u>Helianthus grosseserratus</u>	<u>H</u>	<u>10</u>	<u>FACW-</u>
2. <u>Spartina pectinata</u>	<u>H</u>	<u>20</u>	<u>FACW+</u>	2. <u>Solidago rigida</u>	<u>H</u>	<u>25</u>	<u>OBL</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><u>X</u> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><u>X</u> Local Soil Survey Data</p> <p><u>X</u> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
Remarks: _____	

///

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:
 (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
 Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-2</u>		<u>10YR 3/3</u>	<u>—</u>	<u>—</u>	<u>SIL</u>
<u>2-12</u>		<u>10YR 2/1</u>	<u>—</u>	<u>—</u>	<u>SICL</u>
<u>12>18</u>		<u>5GY 5/1</u>	<u>—</u>	<u>—</u>	<u>C</u>

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 Soil
<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 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

Remarks: ALL DEPLETED BELOW DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>October 28, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W11-P4</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>95</u>	<u>UPL</u>	1. <u>Verbascum thapsus</u>	<u>H</u>	<u>5</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
 (1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
 Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 7/1	—	—	SICL
8-18		10YR 3/2	—	—	SICL

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 Soil |
| <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 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 |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks:

**DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)**

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>November 29, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W12-P1</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Medicago sativa</u>	<u>H</u>	<u>60</u>	<u>UPL</u>	1. <u>Taraxacum officinale</u>	<u>H</u>	<u>10</u>	<u>FACU</u>
2. <u>Triticum aestivum</u>	<u>H</u>	<u>20</u>	<u>UPL</u>	2. <u>Poa pratensis</u>	<u>H</u>	<u>10</u>	<u>FAC-</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0 %

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>> 18</u> (in)</p> <p>Depth to Saturated Soil: <u>> 18</u> (in)</p>	
<p>Remarks: <u>NO INDICATORS OBSERVED</u></p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): SAYLESVILLE SILT LOAM Drainage Class WD

Taxonomy (Subgroup) TYPIC HAPLUDALFS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		10YR 3/2	—	—	SIL
12>18		10YR 3/3	—	—	SIL

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 Soil
<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

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>November 29, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input checked="" type="radio"/> No	Plot ID: <u>W12-P2</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>90</u>	<u>FACW+</u>	1. _____	_____	_____	_____
2. <u>Cornus stolonifera</u>	<u>S</u>	<u>10</u>	<u>FACW</u>	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>> 18</u> (in)</p> <p>Depth to Saturated Soil: <u>> 18</u> (in)</p>	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10YR 2/1	—	—	SICL

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 Soil |
| <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 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 |

Remarks: A12 - THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>November 29, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No	Plot ID: <u>W12-P3</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Glycine max</u>	<u>H</u>	<u>90</u>	<u>UPL</u>	1. <u>Zea mays</u>	<u>H</u>	<u>10</u>	<u>UPL</u>
2. _____	_____	_____	_____	2. <u>Taraxacum officinale</u>	<u>H</u>	<u>45</u>	<u>FACU</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	

Remarks: NO INDICATORS OBSERVED

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:
(Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class PD
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12		10YR 3/2	—	—	SICL
12>18		5Y 5/2	—	—	C

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 Soil
<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 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

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks:

**DATA FORM
 ROUTINE WETLAND DETERMINATION
 (1987 COE Wetland Delineation Manual)**

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>November 29, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>WETLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> <input checked="" type="radio"/> No	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> <input checked="" type="radio"/> No	Plot ID: <u>W12-P4</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Phalaris arundinacea</u>	<u>H</u>	<u>100</u>	<u>FACW+</u>	1. _____	_____	_____	_____
2. _____	_____	_____	_____	2. _____	_____	_____	_____
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 100%

Remarks:

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p> <hr/> <p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p><input checked="" type="checkbox"/> Local Soil Survey Data</p> <p><input checked="" type="checkbox"/> FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name:

(Series and Phase): MONTGOMERY SILTY CLAY LOAM

Drainage Class PD

Taxonomy (Subgroup) TYPIC HAPCAGUOLLS

Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10		10YR3/2			SICL
10-18		10YR3/2	10YR6/8	MANY/PROMINENT	SICL

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 Soil |
| <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 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 |

Remarks: A12-THICK DARK SURFACE

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point in a Wetland	(Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Hydric Soils Present	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Remarks:			

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

Project/Site: <u>Onyx Emerald Park Landfill</u>	Date: <u>November 29, 2005</u>
Applicant/Owner: <u>Onyx Waste Services</u>	County: <u>Waukesha</u>
Investigator: <u>Jerry Kelly</u>	State: <u>Wisconsin</u>
Do normal circumstances exist on this site? Yes <input checked="" type="radio"/> No <input type="radio"/>	Community ID: <u>UPLAND</u>
Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/>	Transect ID: _____
Is the site a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/>	Plot ID: <u>W12-PS</u>

VEGETATION

Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. <u>Triticum aestivum</u>	<u>H</u>	<u>50</u>	<u>UPL</u>	1. <u>Daucus carota</u>	<u>H</u>	<u>10</u>	<u>UPL</u>
2. <u>Medicago sativa</u>	<u>H</u>	<u>40</u>	<u>UPL</u>	2. <u>Taraxacum officinale</u>	<u>H</u>	<u><5</u>	<u>FACU</u>
3. _____	_____	_____	_____	3. _____	_____	_____	_____
4. _____	_____	_____	_____	4. _____	_____	_____	_____
5. _____	_____	_____	_____	5. _____	_____	_____	_____
6. _____	_____	_____	_____	6. _____	_____	_____	_____
7. _____	_____	_____	_____	7. _____	_____	_____	_____
8. _____	_____	_____	_____	8. _____	_____	_____	_____
9. _____	_____	_____	_____	9. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-). 0%

Remarks: _____

HYDROLOGY

<p>Recorded Data (Describe in Remarks)</p> <p>_____ Stream, Lake, or Tide Gauge</p> <p><input checked="" type="checkbox"/> Aerial Photographs</p> <p>_____ Other</p> <p>_____ No Recorded Data Available</p>	<p>Wetland Hydrology Indicators</p> <p>Primary Indicators</p> <p>_____ Inundated</p> <p>_____ Saturated in Upper 12 inches</p> <p>_____ Water Marks</p> <p>_____ Drift Lines</p> <p>_____ Sediment Deposits</p> <p>_____ Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required)</p> <p>_____ Oxidized Root Channels</p> <p>_____ Water-Stained Leaves</p> <p>_____ Local Soil Survey Data</p> <p>_____ FAC-Neutral Test</p> <p>_____ Other (explain in remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in)</p> <p>Depth to Saturated Soil: <u>>18</u> (in)</p>	
<p>Remarks: <u>NO INDICATORS OBSERVED</u></p>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetland Delineation Manual)

SOILS

Map Unit Name: _____

(Series and Phase): MARTINTON SILT LOAM Drainage Class SPD

Taxonomy (Subgroup) AQUIC ARGIUDDOLLS Field Observations
Confirm Mapped Type? Yes No

Profile Description

Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-12</u>	_____	<u>10YR 3/2</u>	<u>—</u>	<u>—</u>	<u>SIL</u>
<u>12>18</u>	_____	<u>10YR 3/3</u>	<u>—</u>	<u>—</u>	<u>SIL</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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 Soil
<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 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

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>	Is This Sampling Point in a Wetland	(Circle) Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soils Present	Yes <input type="radio"/> No <input checked="" type="radio"/>		

Remarks: _____

Veolia ES Emerald Park Landfill
December 1, 2005
Revised December 8, 2008

Wetland Determination and Delineation
City of Muskego, Waukesha County, Wisconsin
NRC Project # 05-235

APPENDIX B

MINUTES FROM WDNR FIELD MEETING; NOVEMBER 12, 2007

Natural Resources Consulting, Inc.

Specializing in wetland, biological and environmental permitting services

125



MEETING MINUTES

SUBJECT: Wetland Boundary Review / Navigability Review – Emerald Park Landfill, Veolia ES	DATE/TIME: Monday, November 12, 2007 / 9:00 am
PROJECT: Emerald Park Landfill Expansion	LOCATION: Emerald Park Landfill, Muskego, WI
ATTENDEES: Ms. Pamela Schense, WDNR; Mr. Jay Warzinski, Veolia ES, Mr. James Dunham, Veolia ES, Mr. Brian Karczewski, Natural Resources Consulting, Inc., Mr. Douglas Genthe, RMT, Inc., Mr. Mark Torresani, RMT, Inc.	

Meeting was held with Ms. Pamela Schense to field review:

- 1) The wetland boundaries within and adjacent to the proposed expansion footprint; and
 - 2) The farm ditches within and adjacent to the proposed expansion footprint.
- 1) Pam Schense indicated that she did receive our opinion paper regarding navigability of the farm ditches within the expansion footprint. She said that she was not aware of the Department dealing with or addressing the applicability of a drainage district with relation to the navigability exemption for farm ditches. This discussion will continue internally within the WDNR.
 - 2) General concurrence regarding the wetland boundaries was obtained. Small changes to the north side of wetland W-4 need to be made. I will visit the site on Monday, November 19th to make the necessary changes. Jim will have a survey crew follow up and locate the new flags. It does not appear that this change, considered minor in extent, will impact the proposed expansion.
 - 3) Questions regarding a previously delineated area, wetland W-5, were addressed in the field. Pam agreed that there did not appear to be any indicators of wetland in the area. However, she would like a farm service agency crop slide review completed to show that the area was consistently farmed. If so, she will consider the area upland.
 - 4) Pam agreed with arguments presented in the field that Pond P-6 is not wetland. This area is now considered non-navigable and non-wetland and does not require further evaluation during the practical alternatives analysis process under NR 103.
 - 5) Questions were raised about the field, currently in forage production, located south of the east-west reach of D-2 and west of the north-south reach of D-2. This area has been delineated by Jerry Kelly as wetland in 1996 and in 2005. Pam agreed that the area does not appear to have the characteristics of wetland. She asked if the area could remain fallow in the Spring of 2008 and if we could revisit the issue at that time.
 - 6) Questions were raised about another potential upland area within the heart of wetland 9 located to the south of the area addressed in point 5 and west of the north-south reach of D-2. This area appears to have upland characteristics which Pam agreed with in the field. However, limited information is available to clearly prove an upland condition since it is farmed and the soils are hydric. Pam is willing to consider its removal from wetland status. She will get back to me and let me know if this is possible from the Department's position.

- 7) If the argument regarding the area being part of a drainage district is not accepted by the WDNR, Pam agreed to previously marked locations of navigability for D-4, and our opinion of where navigability starts for D-2 (approximately 240 feet south of the 90 degree bend in D-2). This location needs to be surveyed and presented to Pam on a map for agreement. This should be done after any discussions regarding the drainage district issue play out.

Veolia ES Emerald Park Landfill
December 1, 2005
Revised December 8, 2008

Wetland Determination and Delineation
City of Muskego, Waukesha County, Wisconsin
NRC Project # 05-235

APPENDIX C
FSA AERIAL REVIEW

WETLAND DOCUMENTATION RECORD
Remotely Sensed Data Summary

Appellant: Valeria ES Emerald Park County Waikeshia State WI

Slide Reviewer Brian Karczewski, NRC Date 12/8/08

Site Identification No. _____ (Tract No. + Site No.)

for area previously identified as wetland

Farm Service Agency Aerial Color Slide Data

W-5

Date (Mo./Yr)	Rainfall (in) +D/N/W (Apr-June ave.)	Interpretation- (codes listed in box below)
1990	4.44 (W)	Y 4 6b
1991	3.62 (N)	Y 5 6a
1992	1.77 (D)	Y 4 6b
1993	5.73 (W)	Y 4 6b
1994	2.25 (D)	Y 3 6d with white (bone ground on edges)
1995	2.64 (N)	Y 5 6a
1996	4.76 (W)	Y 5 6e
1997	3.40 (N)	Y 4 6e
1998	1.17 (N)	Y 5 6d
1999	4.90 (W)	Y 1, 3 6d
2000	5.39 (W)	Y 3 6c <i>construction of biomass compost area began to south</i>
2001	4.40 (W)	Y 5 6d <i>affecting drainage to W-5 area</i>
2002	3.75 (N)	Y 3 6d
2003	3.89 (N)	N
2004	5.35 (W)	N
2005	2.34 (D)	N
2006	4.46 (W)	N

Air Photo

Y = signal indicates wetness (+ = strong, - = weak)	N = NO wetness signature		
CR = cropped (row crop or tilled)	NC = not cropped (hay, pasture, idle, etc.)		
Feature	Color	Manipulation	Other
1 = water	6a = dark green	7a = ditched	write explanation
2 = mud flat	6b = light green	7b = tilled	
3 = bare spot	6c = yellow	7c = filled	
4 = drowned crop	6d = brown	7d = tree/brush removal	
5 = planted late	6e = black	8 = plowed/tilled	

Does Slide/Air Photo data indicate the site is a wetland? (y/n) _____

_____ years out of # _____ years observed have wet (Y) signatures.

new normal circumstance in area surrounding W-5

Farm Service Agency Aerial Color Slide Review

Veolia ES Emerald Park Landfill, LLC

T-5-N, R-20-E, Section 36; City of Muskego, Waukesha County, Wisconsin

Description of Interest: Area Identified as Wetland W-5 in previous wetland investigations.

Year	Monthly Rainfall in Inches *			Total	Mean (April - May)	Relative Wetness	Cropped?	Witness Signature?
	April	May	June					
1981	4.48	1.08	2.84	8.40	2.80	N		
1982	4.07	4.41	2.67	11.15	3.72	N		
1983	2.68	3.96	2.83	9.47	3.16	N		
1984	3.20	4.57	5.90	13.67	4.56	W		
1985	1.48	1.82	2.28	5.58	1.86	D		
1986	1.88	2.50	6.08	10.46	3.49	N		
1987	4.20	3.50	1.73	9.43	3.14	N		
1988	3.26	0.69	1.33	5.28	1.76	D		
1989	1.98	3.53	2.60	8.11	2.70	N		
1990	1.98	5.49	5.84	13.31	4.44	W	CR	Y
1991	3.97	2.35	4.53	10.85	3.62	N	CR	Y
1992	2.82	0.93	1.55	5.30	1.77	D	CR	Y
1993	7.14	3.46	6.59	17.19	5.73	W	CR	Y
1994	1.26	1.30	4.20	6.76	2.25	D	CR	Y
1995	4.15	3.14	0.62	7.91	2.64	N	CR	Y
1996	3.10	2.50	8.69	14.29	4.76	W	CR	Y
1997	1.48	3.45	5.26	10.19	3.40	N	CR	Y
1998	3.64	3.72	5.16	12.52	4.17	N	CR	Y
1999	6.38	5.23	6.10	17.71	5.90	W	CR	Y
2000	2.84	8.54	4.78	16.16	5.39	W	CR	Y
2001	3.80	4.79	4.61	13.20	4.40	W	CR	Y
2002	4.15	2.48	4.63	11.26	3.75	N	CR	Y
2003	1.97	7.14	2.56	11.67	3.89	N	CR	N
2004	2.43	10.40	3.23	16.06	5.35	W	CR	N
2005	1.32	4.03	1.67	7.02	2.34	D	CR	N
2006	4.30	5.70	3.38	13.38	4.46	W	---	N
30% chance less than	2.39	2.09	2.84	7.32	2.44	---	---	---
30 Year Average	3.25	3.14	3.99	10.38	3.46	---	---	---
30% chance more than	3.77	3.81	4.98	12.56	4.19	---	---	---

* Oconomowoc Weather Station (476200), Waukesha County, Wisconsin

DRY
NORMAL
WET

Farm Service Agency Crop Compliance Slides



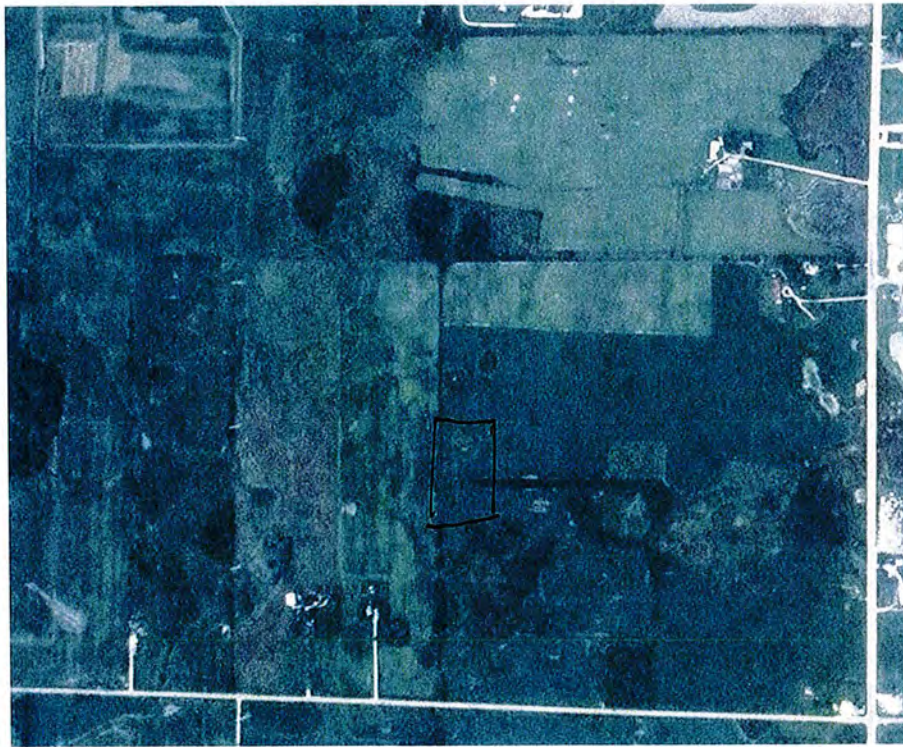
1990



1991



1992



1993



1994



1995



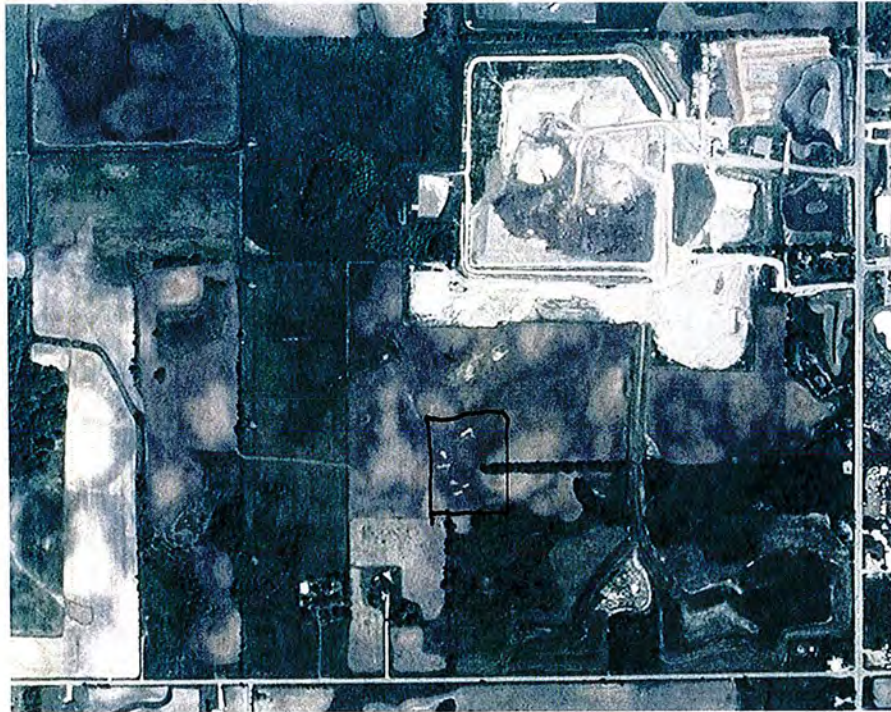
1996



1997



1998



1999



2000



2001



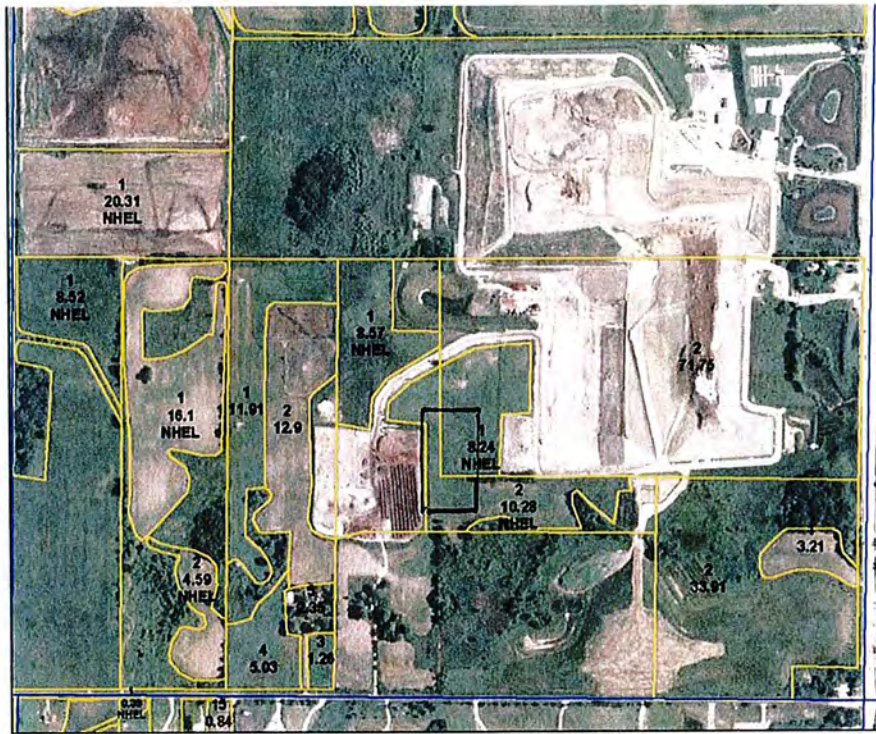
2002



2003

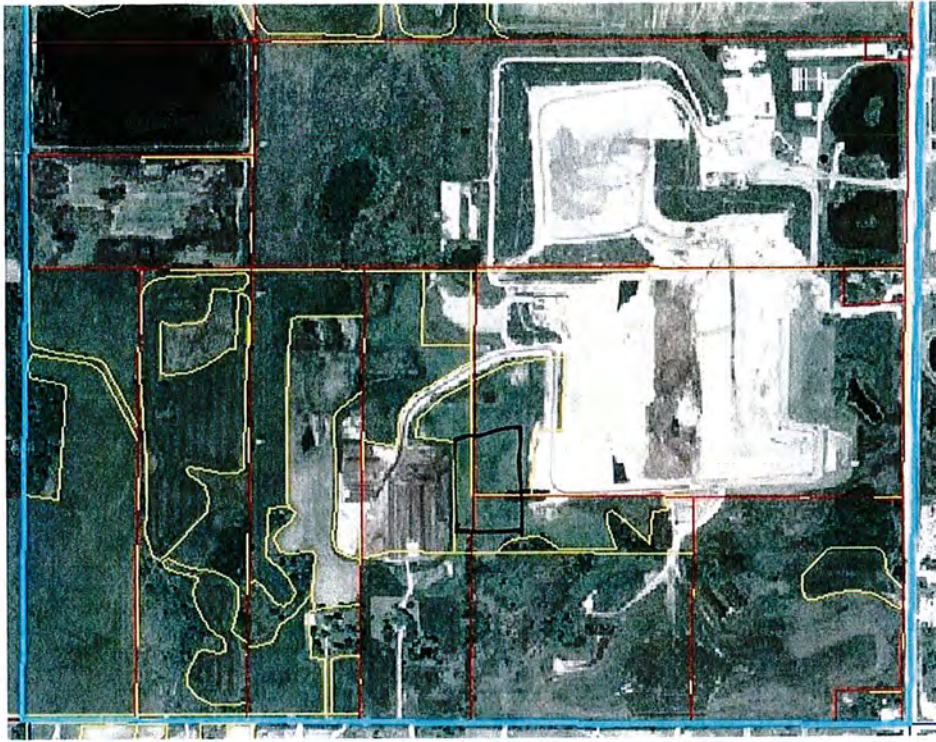


2004



2005

140



2006