Wetland Delineation Report City of Muskego, Waukesha County, Wisconsin Stantec Project # 193702557

APPENDIX F SITE PHOTOGRAPHS

(Date of Photos October 14, 2013, October 17, 2014 and October 23, 2014)







W1-wet meadow community







W1-1u V. SW



W1-1w V. N



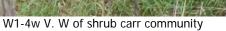
W1-2u V. W













W1-6w V. N



W1-6w V. S



W2 - V. N of wet meadow community



W2 - V. S of wet meadow community



W2-1u V. S





W2-2u V. S



W2-2w V. N



W2-3u V. E



W2-3u V. SW



W2-3w V. E of wet meadow





W2-5w V. N



W3 V. E



W4 V. E from berm





74 5-1 V. N



S-1, view East



S-1, view North



S-1, view West



S-1 , view North



S-1, view Southwest



W-2 , photo depicting the Reed Canary Grass monoculture, view West



W-2 culvert near W2-6w



W2-5w, view South



W3 and culvert connection to W2, view Northwest



W2-6w, view North



W2-7w, view South



W3, view South



W5-1w, view North



W6-1u, view East with W2 in the background



W6-1w, view South



W5-1w, view South



W6-1u, view South



W7-1u, view South



W7-1u, view Southeast



W2-7u (foreground) W2-7w (background), view East



W2-9u (foreground) W2-9w (background), view Northwest towards W2 partly farmed



W7-1w, view Southeast



W2-9u (foreground) W2-9w (background), view East



W9-1u (left) W9-1w (right), view Southwest



W2-10u (foreground) W2-10w (background), view Southeast



W10-1u (foreground) W10-1w (background), view Northwest



W11-2u, View South of upland shrub ticket



W8-1u (foreground) W8-1w (background), view North



W11-1u (foreground) W11-1w (background), view West



Wetland Delineation Report City of Muskego, Waukesha County, Wisconsin Stantec Project # 193702557

APPENDIX G
PREVIOUS REPORTS

WETLAND DELINEATION REPORT

VEOLIA ES EMERALD PARK LANDFILL

CITY OF MUSKEGO, WAUKESHA COUNTY, WISCONSIN

December 1, 2005 Revised December 8, 2008



NRC Project # 05-235

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WETLAND DETERMINATION AND DELINEATION REPORT

Veolia ES EMERALD PARK LANDFILL CITY OF MUSKEGO WAUKESHA COUNTY, WISCONSIN

December 1, 2005 Revised December 8, 2008

Prepared For:

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NRC Project # 05-235

Jerry Kelly Senior Scientist

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Figure 3 – Project Location and WWI Data Figure 4 – Project Location and Field Data

Appendix A - US Army Corps of Engineers Data Sheets

Appendix B - Minutes from WDNR Field Meeting, November 12, 2007

Appendix C – FSA Historical Aerial Review

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INTRODUCTION

Natural Resources Consulting (NRC) conducted a wetland determination and delineation on the Veolia ES Emerald Park Landfill Property (the "Property") on October 25-28, 2005 and November 29, 2005. The Property includes approximately 395 acres in Section 36, Township 5 North, Range 20 East, Waukesha County, Wisconsin. The Property lies in the southeastern part of the City of Muskego, Wisconsin (Figure 1).

The objective of the wetland determination and delineation was to provide an estimate of the extent and spatial arrangement of wetlands within the Property. Most wetlands are considered waters of the U.S. and are therefore subject to regulation under the Clean Water Act (CWA). Specifically, non-isolated wetlands are regulated under Section 404 of the CWA and the jurisdictional regulatory authority lies with the United States Army Corps of Engineers (USACE). Additionally, the Wisconsin Department of Natural Resources (WDNR) has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and NR 103 Wisconsin Administrative Code. The City of Muskego and/or Waukesha County may have additional regulatory authority through shoreland or wetland zoning ordinances.

NRC understands the requested services to include:

- 1. Complete wetland determinations within the Property.
- 2. Flag wetland/upland boundaries within the Property.
- 3. Survey wetland boundaries with a GPS.

METHODS

Wetland Delineation

The initial steps in the wetland determination and delineation process included a review of the following documents:

- Natural Resources Conservation Service (NRCS), formerly the Soil Conservation Service (SCS), excerpts from Soil Survey of Milwaukee and Waukesha Counties, Wisconsin;
- NRCS list of hydric soils for Waukesha County;
- U.S. Geological Survey 7.5 minute Wisconsin quadrangle map; and
- The Wisconsin Wetland Inventory (WWI) Map for the area.

These documents provide information on where wetlands have been previously identified or areas that possess a high likelihood of wetlands occurring. These initially identified areas were then visited to make on-site determinations, and where necessary, complete delineations of the uppermost wetland boundary.

Wetland determinations were made using the criteria and methods outlined in the USACE Manual (USACE 1987), subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), and the Basic Guide to Wisconsin's Wetlands and their Boundaries (Wisconsin Department of Administration Coastal Management Program 1995). The U.S. Army Corps of Engineers and U.S. Environmental Protection Agency wetland definition is included below.

"Areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions."

The State of Wisconsin wetland definition differs slightly; however, their code also cites the usage of the 1987 Manual.

Wetland determinations were made using the three criteria of assessment approach defined in the 1987 Manual. According to procedures described in this Manual, areas that under normal circumstances reflect a predominance of hydrophytic (water loving) vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands. Since the wetland boundaries at the Property were relatively abrupt, the Routine Method for Small Areas was employed.

A preliminary reconnaissance of the Property was used to determine the general topography and plant communities at the Property and to identify suitable locations for sampling transects. In general, transects are linear features aligned perpendicular to site contours such that they cross representative locations of wetlands and adjacent uplands. The three criteria were evaluated by placing an observation point within a representative location of each plant community encountered along the transect.

At each observation point:

- 1. The presence or absence of normal circumstances was determined.
- 2. The plant community was characterized by identifying dominant plant species using the "50/20" rule. For each stratum in the plant community, dominant species are the most abundant (when ranked in descending order of abundance and cumulatively totaled) that immediately exceed 50% of the total dominance measure for the stratum, plus any additional species comprising 20% or more of the total dominance measure for the stratum.

Wetland indicator status is ranked by percent probability of the species occurrence in wetlands as follows:

OBL = Obligate Wetland, occurs with an estimated 99 percent probability of occurrence in wetlands

FACW = Facultative Wetland, estimated 67 to 99 percent probability of occurrence in wetlands

FAC = Facultative equally likely to occur in wetlands and non-wetlands (34 to 66 percent probability)

FACU = Facultative upland, 67 to 99 percent probability in non-wetlands, 1 to 33 percent in wetlands

UPL = Obligate Upland, greater than 99 percent probability in non-wetlands in this region

NI = No indicator, insufficient information available to determine an indicator status

Wetland indicator status can be modified with a positive sign (+) to indicate a frequency toward the higher end of the category, while a minus sign (-) indicates a frequency toward the lower end of the category (Resource Management Group, 1995);

- 3. Soil pits were dug to a depth of at least 18 inches when possible, and the soil was evaluated for hydric soil characteristics; and
- 4. Hydrology was assessed by observing for primary (i.e., inundation, saturation within the root zone, water marks, etc.) and secondary (i.e., oxidized pore linings, water stained leaves, etc.) indicators of wetland hydrology.

The transects were initiated at a representative location within each wetland to first complete the wetland determination. The uppermost wetland boundary was identified once an upland site was encountered along the transect. The uppermost wetland boundary was flagged using consecutively numbered surveyors flagging and mapped with Global Positioning System (GPS) equipment. Subject to weathering, the flagging will remain in the field for use during a USACE / WDNR site visit and for a guide during construction.

RESULTS

Table 1 is a list of the soils mapped in the Soil Survey of Milwaukee and Waukesha Counties, Wisconsin, for the Property (Figure 2). Soils listed as hydric within Waukesha County are shown in **bold** print.

Table 1. Soil Map Units Identified at the Property.

SYMBOL	SOIL MAP UNIT	CLASSIFICATION	DRAINAGE CLASS	HYDRIC Part
AsA	Ashkum silty clay loam, 0-3% slopes	Typic Haplaquolls	poorly drained	whole soil unit
EsA	Elliott silt loam, 1-3% slopes	Aquic Argiudolls	somewhat poorly drained	inclusions for Ashkum soils
FoB	Fox loam, 2-6% slopes	Typic Hapludalfs	well drained	none
HeB	Hebron loam, 2-6% slopes	Typic Hapludalfs	well drained	none
HeC2	Hebron loam, 6-12% slopes, eroded	Typic Hapludalfs	well drained	none
MeB	Markham silt loam, 2-6% slopes	Mollic Hapludalfs	well drained	none
MgA	Martinton silt loam, 1-3% slopes	Aquic Argiudolls	somewhat poorly drained	inclusions for Montgomery soils
Mzb	Montgomery silty clay loam	Typic Haplaquolls	poorly drained	whole soil unit
MzdB	Morley silt loam,2-6% slopes	Typic Hapludalfs	well drained	none
MzdB2	Morley silt loam,2-6% slopes, eroded	Typic Hapludalfs	well drained	none
MzdC2	Morley silt loam,6-12% slopes, eroded	Typic Hapludalfs	well drained	none
Mzg	Muskego muck	Limnic Medisaprists	very poorly drained	whole soil unit
Na	Navan silt loam	Typic Argiaquolls	poorly drained	whole soil unit
Oc	Ogden muck	Terric Hapludalfs	poorly drained	whole soil unit
ShB	Saylesville silt loam, 2-6% slopes	Typic Hapludalfs	well drained	none
ShB2	Saylesville silt loam, 2-6% slopes, eroded	Typic Hapludalfs	well drained	none
ShC2	Saylesville silt loam, 6-12% slopes, eroded	Typic Hapludalfs	well drained	none

The Wisconsin Wetland Inventory (WWI) shows wetlands south, southwest, and west of the active landfill (Figure 3). Three large areas are labeled as a mixed vegetation community of scrubshrub/emergent wetland on wet soils (S3/E2K). An additional large area is marked as emergent wet meadow with either wet soil or standing water (E2H, E2K). Three smaller areas northwest and southwest of the active landfill are also marked as wet meadow (E2H, E2K, E2Kf).

The topography in the vicinity of the Property is generally flat, with natural topographic highs of greater than 800 feet above mean sea level (MSL) in the southeastern corner and the northeastern side of the Property. Surface water drainage is to the northwestern corner of the Property, and is accomplished by sheet flow and agricultural drainage ditches. Surface water leaving the Property is by an unnamed drainageway that discharges to Big Muskego Lake approximately 1.5 miles downstream of the Property. Big Muskego Lake is part of the Illinois-Fox drainage basin, which drains to the Mississippi River by way of the Illinois River.

An onsite wetland determination and delineation was completed on October 25-27, 2005 by Jerry Kelly and Rachel Veltman of NRC, on October 28, 2005 by Jerry Kelly and Allison Oberc of NRC, and Jerry Kelly on November 29, 2005. USACE data sheets were completed for sample points along transects through the wetland boundary plant communities, and are included in Appendix A. The transect and sample point locations were chosen within representative plant communities and at various landscape positions.

NRC determined boundaries for eight jurisdictional wetlands on the Property (Figure 4). Numbering of wetlands was kept consistent with that of a previous wetland delineation performed at the Property (JJR, Inc., 1996). Wetlands 1 and 2 described in that report have since been enhanced as entrance ponds to the Veolia ES Emerald Park Landfill and are not classified as jurisdictional wetlands. The area of Wetland 5 was investigated as part of the current project, but evidence of a wetland was not observed (data form for W5-P1 in Appendix A). Wetland 8, formerly separated from Wetland 9 by property belonging to others, is included as part of Wetland 9 because the client now possesses additional lands.

Wetlands additional to those described in the 1996 report are included in this report. Wetland 6A, west of Wetland 6, appears to have resulted from a change in land use activities. Wetlands 10 and 11 are on lands not owned by Veolia ES Emerald Park Landfill at the time of the earlier investigation.

Wetland 3

Wetland 3 is a large wet meadow and scrub-shrub complex in the southeastern part of the Property. A reed canary grass (*Phalaris arundinacea*) monoculture dominates most of the wet meadow parts of this wetland. Other wet meadow areas support prairie cordgrass (*Spartina pectinata*) and forbs, such as giant goldenrod (*Solidago gigantea*) and grassleaf goldenrod (*Euthamia graminifolia*). A pond in the northeastern part of Wetland 3 is surrounded by mature hardwood trees, especially silver maple (*Acer saccharinum*). Scrubshrub areas are dominated by sandbar willow (*Salix exigua*) and gray and red osier dogwoods (*Cornus racemosa*, *C. stolonifera*). Indicators of hydric soils include a thick dark surface layer (Indicator A12 in National Technical Committee for Hydric Soils, *Field Indicators of Hydric Soils in the United States*, Version 5.9, 2003) and a loamy gleyed matrix (Indicator F2). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Uplands adjacent to Wetland 3 are generally on noticeably higher ground, including landfill areas, U.S. Highway 45, and active and fallow fields. Active fields are currently (October 2005) planted in winter wheat (*Triticum aestivum*). Plant communities of fallow fields and landfill slopes are dominated by Kentucky bluegrass (*Poa pratensis*) and forbs such as Canada goldenrod (*Solidago canadensis*) and dandelion (*Taraxacum officinale*). Generally, soils at upland sampling locations did not exhibit indicators of hydric soils. Wetland hydrology indicators were not observed at upland sampling locations.

Wetland 4

Wetland 4 is a large wet meadow and scrub-shrub complex in the south-central part of the Property. Reed canary grass dominates the plant community in much of the wet meadow parts of Wetland 4. Prairie cordgrass and prairie forbs, including grassleaf goldenrod and sawtooth sunflower (*Helianthus grosseserratus*) dominate a wet meadow on the northern part of Wetland 4. The scrub-shrub plant community includes sandbar willow, dogwoods, and cockspur hawthorn (*Crataegus crus-galli*). Indicators of hydric soils include a depleted matrix and thick dark surface layer (Indicators A12 and F3) and the presence of muck soils (Indicator A1). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Uplands adjacent to Wetland 4 generally grade downward to the wetland boundaries. Lands adjacent to Wetland 4 include agricultural fields planted in winter wheat and soybeans (*Glycine max*), landfill slopes, and fallow fields dominated by oldfield vegetation, including Canada and giant goldenrod, Kentucky bluegrass, tall fescue (*Festuca arudinacea*), reed canary grass, and dandelion. Generally, soils at upland sampling locations did not exhibit indicators of hydric soils. Wetland hydrology indicators were not observed at upland sampling locations.

Wetland 6

Wetland 6 is a small, isolated depression in an agricultural field. The plant community is a wet meadow dominated by reed canary grass and saplings of sandbar willow. Indicators of hydric soils include a loamy gleyed matrix (Indicator F2). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Wetland 6 is surrounded by an agricultural field most recently planted in soybeans. Weeds in the field are indicative of upland conditions, and include dandelions and Queen Anne's lace (*Daucus carota*). Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

Wetland 6A

Wetland 6A is a small depression at the edge of an agricultural field. The plant community is a wet meadow dominated by hybrid cattail (*Typha x glauca*) and barnyard grass (*Echinochloa crusgalli*). Forbs in Wetland 6A are also indicative of wetland conditions, and include swamp tickseed (*Bidens comosus*) and water plantain (*Alisma subcordatum*). Indicators of hydric soils include a depleted layer below a dark surface soil layer (Indicator A11). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Wetland 6A is bordered on the west, south, and east by agricultural fields formerly planted in soybeans and alfalfa (*Medicago sativa*). Weeds in the field are indicative of upland conditions, and include dandelions and Queen Anne's lace. Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

Wetland 7

Wetland 7 is a small, isolated depression at the edge of an agricultural field. The plant community is a wet meadow dominated by river bulrush (*Scirpus fluviatilis*) and field nutsedge (*Cyperus esculentus*), although remnants of soybean plants are present to indicate that most of this wetland was farmed in 2005. Indicators of hydric soils include a depleted layer below a dark surface soil layer (Indicator A11). Indicators of

wetland hydrology are limited to secondary indicators, including the presence of water-stained leaves, the FAC-neutral test and local soil survey data.

Wetland 6 is bordered by an agricultural field most recently planted in soybeans on the west and south. Weeds in the field are indicative of upland conditions, and include dandelions and Queen Anne's lace. The northern and eastern sides of Wetland 7 support oldfield vegetation, including squirreltail grass (*Hordeum jubatum*), heath aster (*Aster ericoides*), and dandelions. Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

Wetland 9

Wetland 9 covers much of the northwestern part of the Property. This wetland supports an extensive wet meadow plant community, much of which is a reed canary grass monoculture. In places, sedge species (Carex stricta, C. lacustris) and sawtooth sunflower are supported with the reed canary grass. A large wooded hill forms an upland island in the center of Wetland 9. The hill is topographically distinct from the surrounding wetland and supports northern pin and bur oaks (Quercus ellipsoidalis, Q. macrocarpa), with a perimeter band of shrubs that includes cockspur hawthorn and prickly ask (Xanthoxylum americanum). Indicators of hydric soils in the wetland include a depleted layer below a dark surface soil layer or a thick dark surface layer (Indicators A11, A12). Indicators of wetland hydrology are limited to secondary indicators, including the presence of water-stained leaves, the FAC-neutral test and local soil survey data.

The southern part of Wetland 9 has been farmed for soybeans in 2005. Weeds growing among the soybean plants are reed canary grass. This part of Wetland 9 has a muck soil (Indicator A1, Histosol). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Wetland 9 is bordered by agricultural fields and lawn areas. The agricultural fields are planted in soybeans, and the lawns in Kentucky bluegrass. Weeds in the fields and lawns are indicative of upland conditions, and include Canada goldenrod, dandelions, and Queen Anne's lace. Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

Wetland 10

Wetland 10 is a large wet meadow and scrub-shrub area in the southwestern part of the Property. The wet meadow plant communities, which comprise most of the wetland, are dominated by reed canary grass, with few other plant species present. A scrub-shrub plant community, centered along a drainageway that extends through a part of the wetland, is dominated by red osier and gray dogwoods and sandbar willows. The wetland soils are characterized by a thick dark surface layer (Indicator A12). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Uplands adjacent to Wetland 10 include agricultural and fallow fields. The agricultural fields are planted in winter wheat, although remnants of an earlier soybean crop remain. Fallow field areas are dominated by Kentucky bluegrass and Canada goldenrod. Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

Wetland 11

Wetland 11 is a wet meadow on the western side of the Property surrounded by an agricultural field. The wet meadow plant community is dominated by prairie cordgrass, hummock sedge, and wetland forbs, such as giant and Riddell's goldenrods (Solidago gigantean, S. riddellii), sawtooth sunflower, and side-flowering

aster (Aster lateriflorus). Indicators of hydric soils in the wetland include a depleted layer below a dark surface soil layer (Indicator A11). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

The upland surrounding Wetland 11 is planted in winter wheat, although remnants of an earlier soybean crop remain. Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

Wetland 12

Wetland 12 is a large wet meadow and shallow marsh area in the southwestern part of the Property. The wet meadow plant communities, which comprise most of the wetland, are dominated by reed canary grass, with few other plant species present. The wet meadow is a plant community dominated by hybrid cattail in a low area of the western part of the wetland. Small areas of scrub-shrub plant communities are scattered in the wetland, and are dominated by red osier and gray dogwoods and sandbar willows and young green ash trees (*Fraxinus pennsylvanica*). The wetland soils are characterized by a thick dark surface layer (Indicator A12). Indicators of wetland hydrology are limited to secondary indicators, including the FAC-neutral test and local soil survey data.

Uplands adjacent to Wetland 12 include agricultural fields and wooded mounds. The agricultural fields are planted in winter wheat and alfalfa, although remnants of an earlier soybean crop remain. The wooded topographically high areas contain plant communities dominated by oak trees, including black oak (*Quercus velutina*), northern pin oaks, and bur oaks. Soils at upland sampling locations did not exhibit indicators of hydric soils, nor were wetland hydrology indicators observed.

WDNR Field Meeting

Minutes from the meeting betweet Mr. Jay Warzinski and Mr. James Dunham; Veolia ES Emerald Park Landfill, LLC, Mr. Brian Karczewski, Natural Resources Consulting, Inc., Mr. Doug Genthe and Mr. Mark Torresani; RMT, Inc. and Ms. Pamela Schense of the Wisconsin Department of Natural Resources held on November 12, 2007 are included in Appendix B. The purpose of the meeting was to 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.

General concurrence regarding the wetland boundaries was obtained. Small changes to the north side of wetland W-4 needed to be made. These changes are provided on Figure 4. Questions regarding a previously delineated area, wetland W-5, were addressed in the field. Ms. Schense agreed that there did not appear to be any indicators of wetland in the area. However, she requested that a farm service agency crop slide review be completed to show that the area was consistently farmed and that signatures were not present on a consistent basis. If so, she will consider the area upland.

Ms. Schense agreed with determinations 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.

Ms. Schense agreed to previously marked locations of navigability for ag-ditch D-4, and NRC's professional opinion of where navigability starts for D-2 (approximately 240 feet south of the 90 degree bend in D-2). These points of beginning of navigability are shown on figure 4.

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

FSA Aerial Review

At the request of Ms. Pamela Schense, an FSA slide review was completed for the site with particular attention placed on the area previously defined as wetland W-5. The results of this review are provided in Appendix C.

In summary, significant indicators of wetness signature were viewed on every aerial collected from 1990 through 2002. No signatures of wetness were observed in aerials taken after 2002. The construction of a compost facility to the west of wetland W-5 in 2000 (please refer to the 2000 aerial) caused a "new normal circumstance" in site drainage that caused the recent shift in wetness signatures observed on aerials taken from 2002 through 2006.

Other Environmental Considerations

This report is limited to the identification of state and/or federally regulated wetlands. In addition, there may be other regulated environmental features within the Property. These environmental features may include but are not limited to historical or archeological features, endangered or threatened species, designated environmental corridors, floodplains, and/or navigable waters.

Prior to beginning work at this site or disturbing or altering wetlands, waterways, or adjacent lands in any way, NRC strongly recommends that the owner obtain the necessary permits or other agency regulatory review and concurrence with regard to the proposed work in order to comply with applicable regulations. NRC would be happy to assist with any additional resources inventory or identification work at your request, to the extent that the work is within our range of expertise.

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

CONCLUSIONS

Natural Resources Consulting (NRC) conducted a wetland determination and delineation on the Veolia ES Emerald Park Landfill Property (the "Property") on October 25-28, 2005 and November 29, 2005. The Property includes approximately 395 acres in Section 36, Township 5 North, Range 20 East, Waukesha County, Wisconsin. The Property lies in the southeastern part of the City of Muskego, Wisconsin.

The objective of the wetland determination and delineation was to provide an estimate of the extent and spatial arrangement of wetlands within the Property.

NRC identified and surveyed by GPS nine wetlands on the Property. Wetlands 3, 4, 10, and 12 are large wet meadows, dominated by reed canary grass, with scrub-shrub areas. Wetland 9 is a large wet meadow dominated by a reed canary grass monoculture. Wetlands 6, 6A, and 7 are small (each less than ¼-acre) isolated depressions in an agricultural field. Wetland 11 is a wet meadow with a diverse plant community in an agricultural field.

This delineation identified the wetland boundary according to current federal and state guidelines. The city or county may restrict land use in close proximity to the wetlands through setbacks, zoning, buffers or environmental corridors.

The information provided regarding wetland boundaries is an estimate of the wetland boundary and the opinions presented are best estimates of the conditions at the time the wetlands were viewed. The ultimate decision on the boundaries defining regulatory jurisdiction over wetlands rests with the USACE and, in some cases, the WDNR, or a local unit of government. As a result, there may be adjustments to boundaries based upon review of a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change with time, depending on the weather, vegetation patterns, drainage, activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site. It is recommended the Client obtain an opinion and authority from regulating government agencies before proceeding with any development or utilization of the Property. If the Client proceeds to change, modify or utilize the Property in question without obtaining authorization from the regulating governmental agency, it will be done at the Client's own risk and Natural Resources Consulting, Inc. will not be responsible or liable for any resulting damages.

REFERENCES

DeLorme 3-D TopoQuads, 1999; United States Geological Survey, Wisconsin 7.5 Minute Series (Topographic) Maps.

Resource Management Group, National List of Plant Species that Occur in Wetland Region 3, North Central, 1995.

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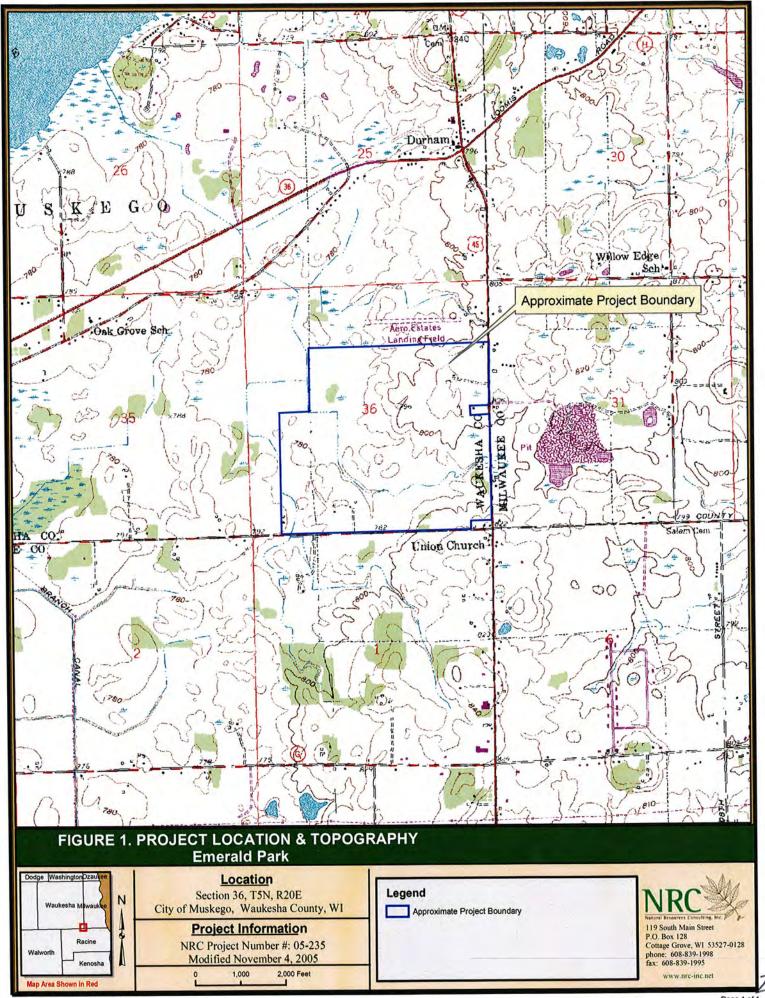
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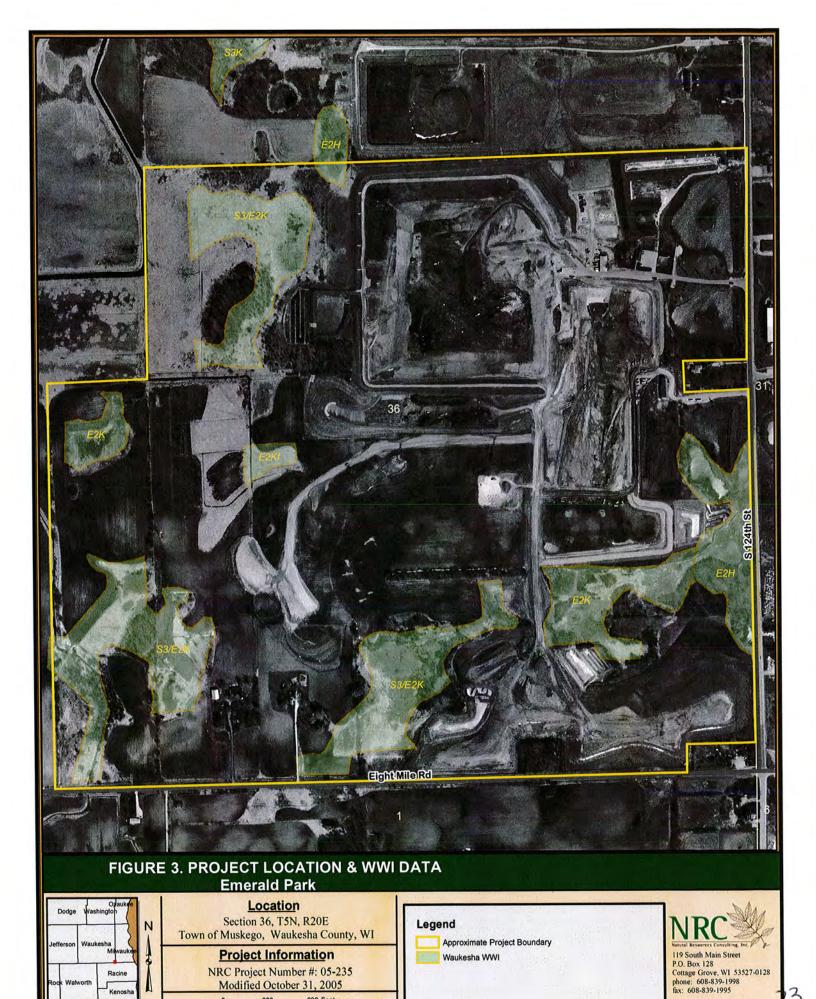
Wetland Determination and Delineation City of Muskego, Waukesha County, Wisconsin NRC Project # 05-235

REPORT FIGURES





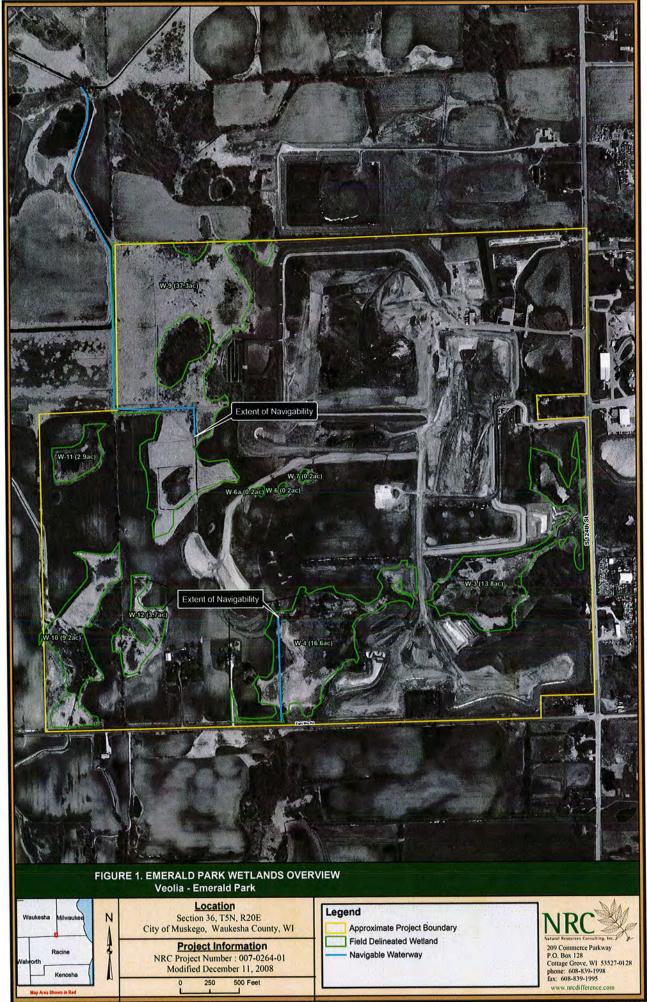
Soils.mxd Map Created by S. Tervo Page 1 of 1



WWI.mxd Map Created by S. Tervo Page 1 of 1

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600 Feet



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

APPENDIX A

U.S. ARMY CORPS OF ENGINEERS DATA SHEETS

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

<u></u>		(-, -, -	O.E. TT CEREN		1		-	
Project/Site: Onyx Eme	erald Park I	Landfill			Date: Octo	ber 26, 2005		
Applicant/Owner: O	nyx Waste		County: Waukesha					
Investigator: <u>Jerry Kell</u>	y, Rachel V		State:	Wisconsin				
Do normal circumstances	exist on thi	s site?	⟨Ÿ	es No	Community 1	D: UPLAND		
Is the site significantly dis	turbed (Aty	pical Situ	es No	Transect ID:				
Is the site a potential probl	lem area?		Y	es No	Plot ID:	N3-P1		
VEGETATION								
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratu	ım % Cover	Indicator	
1. Poa pratensis	<u> </u>	80	FAC-	1. Geum macroph	yllum 1	<u> 45</u>	FACW+	
2. Solidano canadensis	<u> </u>	_20_	FACU	2				
3				3				
4,				4				
5				5			***************************************	
6				6				
7			•	7				
8		-		8				
9				9				
Percent of Dominant Species the	at are OBL, F	ACW, or FA	vC					
(excluding FAC-).								
Tomarks.								
HYDROLOGY								
Recorded Data (Des	ke, or Tide (tographs	•	1 .	Wetland Hydrology Indicators Primary IndicatorsInundatedSaturated in Upper 12 inchesWater MarksDrift Lines				
Field Observations:				Sediment Deposits Drainage Patterns in Wetlands				
Depth of Surface W	ater:	*****		in) Secondary l	Indicators (2 or n	nore required)	uo	
Depth to Free Wate			0	(in)		Root Channels ined Leaves		
Depth to Saturated	Soil:		(10(in)	Local Soil FAC-Neut	Survey Data		
						olain in remarks)		
Remarks:								

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

SOILS

Map Unit N	Vame:									
(Series and	Phase): MORLEY	SILT LOAM, 2-	OPES	Drainage Class						
Taxonomy	(Subgroup) TYPI	c HAPLUBALI		Field Observations Confirm Mapped Type? (Yes) No						
Profile Description										
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.				
0-11		10YR3/2			, marker	SICL				
11>18		104R5/4	Paper		patrice.	SICL				
	· · · · · · · · · · · · · · · · · · ·									
			<u></u>							
										
Hydric SoiiHiSiReG	r in Sandy Soil									
Remarks:										
WETLAND DETERMINATION										
		(Circle)								
Hydrophy	ytic Vegetation Preser	<u> </u>	_			(Circle)				
Wetland I	Hydrology Present	Yes No	\bigcirc	Is This Sampling Point in a Wetland Yes No						
Hydric Sc	oils Present	Yes No	<u>)</u>							
Remarks:										

Project/Site: Onyx Emerald Park Landfill	Date: October 26, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: Jerry Kelly, Rachel Veltman	State: Wisconsin
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:
Is the site a potential problem area? Yes (No)	Plot ID: W3-PZ
VEGETATION	
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator
1. Phalaris arunkinasea H 100 FACW+ 1. Viburnum 16	ritago S 55 FACT
2. Acer saccharinum T 50 FACW 2.	
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-).	
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Wetland Hyd	drology Indicators
Stream, Lake, or Tide Gauge Primary IndiXAerial Photographs	cators Inundated
Other No Recorded Data Available	Saturated in Upper 12 inches Water Marks
No Recorded Data Avanable	Drift Lines
Field Observations:	Sediment Deposits Drainage Patterns in Wetlands
1	ndicators (2 or more required)
Depth to Free Water in Pit: $\frac{>18}{>18}$ (in)	Oxidized Root Channels Water-Stained Leaves
Depth to Saturated Soil: (in)	X Local Soil Survey DataX FAC-Neutral Test
	Other (explain in remarks)
Remarks:	

Map Unit Name:						
(Series and Phase): ASHKUM	SILTY CLAY		Drainage Class	PD		
Taxonomy (Subgroup)	. HAPLAQUO	LLLS		Field Observations Confirm Mapped Type	e? (Yes) No	
Profile Description					Vincent 1	
l =	Matrix Color Munsell Moist	Concentra Color	ation	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0718	10YR3/1	dire,.			516	
<u> </u>						
	P					
Hydric Soil Indicators:						
Histosol		Concre				
Histic Epipedon Sulfidic Odor		Organi	ic Streaki	ontent in Surface Layer ng in Sandy Soils	in Sandy Soil	
Aquic Moisture Regime Reducing Conditions				Hydric Soils List nal Hydric Soils List		
Gleyed or Low-Chroma Co.		Other		MI LAJ MAZO DOLLO MILO.		
Remarks: A12 THICK I	JARK SURFI	ACE				
Remarks, July 12 11 11 11 11 11 11 11 11 11 11 11 11		•••				
WETLAND DETERMINATION						
	(Circle)					
Hydrophytic Vegetation Present					(Circle)	
Wetland Hydrology Present	Yes No	- 1	This San	npling Point in a Wet	land (Yes) No	
Hydric Soils Present	(Yes) No	<u>, </u>				
Remarks:				•		

(1987 COE Wettand Denneation Ma	<u> </u>
Project/Site: Onyx Emerald Park Landfill	Date: October 26, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: Wisconsin
Do normal circumstances exist on this site? Yes No	Community ID: いだてLAND
Is the site significantly disturbed (Atypical Situation)? Yes (No)	Transect ID:
Is the site a potential problem area? Yes No	Plot ID: <u>W3-P3</u>
VEGETATION	
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator
1. Phalaris arundinacea. H 95 FACW+ 1. Typha x 9	lauca H 5 OBL
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-). \のの治	
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Wetland	Hydrology Indicators Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines
Field Observations:	Sediment Deposits Drainage Patterns in Wetlands
	y Indicators (2 or more required)
Depth to Free Water in Pit: > 18 (in)	Oxidized Root Channels Water-Stained Leaves
Depth to Saturated Soil:(in)	Local Soil Survey Data X FAC-Neutral Test
	Other (explain in remarks)
Remarks:	

Map Unit Name:				
(Series and Phase): A5H	KUM SILTY CI	Drainage Class	D	
Taxonomy (Subgroup)	PIC HAPLAQU	OLLS	Field Observations Confirm Mapped Type	Yes No
Profile Description				agus de la companya d
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18	10YR2/1	7,5YR5/8 R	COT CHANNELS FEW/PROM	INENT SICL
		table to the second sec		

Hydric Soil Indicators:				
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regin Reducing Conditions Gleyed or Low-Chron	Organic Strea Listed on Loc	Content in Surface Layer i king in Sandy Soils al Hydric Soils List onal Hydric Soils List	n Sandy Soil	
Remarks: A 12 THICK	DARK SURFAC	Const.		
·				
WETLAND DETERMINA	TION			
	(Circle)			
Hydrophytic Vegetation Pre	esent Yes N	То		(Circle)
Wetland Hydrology Present	Yes N	To Is This Sa	ampling Point in a Wetla	and Yes No
Hydric Soils Present	(Yes) N	10		
Remarks:				

	(1987 COE Welland	Denneation Manu	141)					
Project/Site: Onyx Emerald Park	Date: October 2	26, 2005						
Applicant/Owner: Onyx Waste	County: V	Vaukesha						
Investigator: <u>Jerry Kelly, Rachel</u>	State: V	Visconsin						
Do normal circumstances exist on the	is site? Ye	s) No	Community ID:) PLP/ND				
Is the site significantly disturbed (At	ypical Situation)? Ye	S NO GEALING	Transect ID:					
Is the site a potential problem area?	Ye	s (No	Plot ID: W3-	P4				
VEGETATION								
Plant Species Stratum	% Cover Indicator	Other Plant Species	Stratum	% Cover	Indicator			
1. Phalaris arundinacea 1-1	GD FACW+	LI CIT	antec H	10	FACW			
2. Poa praterisis H	20 FAC-	2. Taraxacum d	itticinale H	<u> </u>	FACU			
3		3. Dancus car	ota H	45	UPL			
4		4						
5		5						
6		6						
7	-	7			<u> </u>			
8		8						
9		9						
Percent of Dominant Species that are OBL, F (excluding FAC-).	FACW, or FAC							
Remarks:								
HYDROLOGY								
Recorded Data (Describe in Re			drology Indicators					
Stream, Lake, or Tide X Aerial Photographs	Gauge	Primary Indi	Primary IndicatorsInundated					
Other No Recorded Data Available		<u> </u>	Saturated in Upper 12 inches Water Marks					
			Drift Lines					
Field Observations:			Sediment Depo Drainage Patter		is			
Depth of Surface Water:	(ir	Secondary In	ndicators (2 or more a	required)				
Depth to Free Water in Pit:	>18 (in		Oxidized Root Water-Stained					
Depth to Saturated Soil:	(ir	·	Local Soil Surv FAC-Neutral T					
	······································		Other (explain					
Remarks: SAMPLE POINT 15	APPROX, 24 INC	ht bailbin th	TUBDACEUT	WETTLANK),			

Map Unit l					
(Series and	Phase): ELLI	OTT SILT LOP	Drainage Class	SPD	
Taxonomy	(Subgroup) A QU	ic ARGIUDOLL	Field Observations Confirm Mapped Typ	e? Yes (No)	
Profile Des	scription				~~~43 48 2
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10		10YR3/1	Menne		SICL
10>18		2.545/3	whilesh	Fine	SICL
<u> </u>		Audition of the Control of the Contr			

<u> </u>					
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors			Organic Strea Listed on Loc	Content in Surface Layer aking in Sandy Soils cal Hydric Soils List cional Hydric Soils List	r in Sandy Soil
Remarks:					
\/\FTI AI	ND DETERMINATI	ON .			
VV	AD DE CELUION CO.	(Circle)			
Hydrophy	ytic Vegetation Prese				(Circle)
· · · · · · · · · · · · · · · · · · ·		Yes (N	!	ampling Point in a Wet	tland Yes (No)
11	oils Present	Yes N	<u>ت</u> ا	-	**Propulation
Remarks	:		1		

	7 Wellend Delinoation Plant							
		Date: October 26, 2005						
Applicant/Owner: Onyx Waste Services		County: Waukesha						
Investigator: <u>Jerry Kelly, Rachel Veltman</u>		State: Wisconsin						
Do normal circumstances exist on this site?	Yes No	Community ID: WETLAND						
Is the site significantly disturbed (Atypical Situati	on)? Yes (No)	Transect ID:						
Is the site a potential problem area?	Yes No	Plot ID: <u>W3-P5</u>						
VEGETATION								
Plant Species Stratum % Cover In	ndicator Other Plant Species	Stratum % Cover Indicator						
1. Phalaris arundinacea H 40 s								
2. Eleocharis palustris 14 40	081_ 2							
4	4							
5	5							
6	6							
7	7							
8	8							
9	9							
Percent of Dominant Species that are OBL, FACW, or FAC								
(excluding FAC-). \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
Remarks:								
THE POLOGY								
HYDROLOGY Recorded Data (Describe in Remarks)	Wetland Hy	drology Indicators						
Stream, Lake, or Tide Gauge		Primary Indicators						
X Aerial Photographs Other		Inundated Saturated in Upper 12 inches						
No Recorded Data Available		Water Marks						
		Drift Lines Sediment Deposits						
Field Observations:		Drainage Patterns in Wetlands						
Depth of Surface Water:	·	Indicators (2 or more required) Oxidized Root Channels						
Depth to Free Water in Pit: > 15	2 `	Water-Stained Leaves						
Depth to Saturated Soil:	(in)	Local Soil Survey Data X FAC-Neutral Test						
	_	Other (explain in remarks)						
Remarks:								
		•						

Map Unit N	Map Unit Name:							
(Series and	Phase): ASHK	JM SILTY CA	Drainage Class	<u>PD</u>				
Taxonomy	(Subgroup) TYPI	c HAPLAQU	JOLL S		Field Observations Confirm Mapped Type	e? Yes No		
Profile Des	cription					Control of the Contro		
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-6		10YR 2/1			***************************************	SICL		
6718		577/4	10	(R5/8	FEW/PROMINENT	<u> </u>		
					-			
	-		•					
	•							
Hydric Soil	Indicators:							
	stosol	-		ncretions	~			
	istic Epipedon Ilfidic Odor		High Organic Content in Surface Layer in Sandy SoilOrganic Streaking in Sandy Soils					
	quic Moisture Regime educing Conditions	-	Listed on Local Hydric Soils List Listed on National Hydric Soils List					
	leyed or Low-Chroma (Colors _	Other					
Demarks	F2 LOAMY GL	CYED MATRIX	<u> </u>					
Remains.	f the section of the section of	in the contraction						
WETLAN	ID DETERMINATION							
		(Circle)						
	tic Vegetation Preser	and the same	.Vo			(Circle)		
	Hydrology Present		No	Is This Sa	mpling Point in a Wet	land (Yes) No		
Hydric So	ils Present	(Yes) 1	No					
Remarks:								
						j		
						l		

(1987 COE Wetland Denneation Manual)								
Project/Site: Onyx Emerald Park Landfill					Date: October 2	6, 2005		
Applicant/Owner:O	County: W	/aukesha						
Investigator: <u>Jerry Kell</u>	y, Rachel	Veltman			State: W	/isconsin		
Do normal circumstances of	exist on th	is site?	Ϋ́	es No	Community ID:_\	JPLAND		
Is the site significantly dist	urbed (At	ypical Situ	Amakani (*	es No	Transect ID:			
Is the site a potential probl				es (No)	Plot ID: W3	-PG		
VEGETATION			···					
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator	
1. Tritium aestivum	14	80	UPL	1. Somehus arv	ensis H	10	FACT	
2				2. Glycine m	ax H		UPL	
3				3. Taraxacyon of	ficinale H		FACU	
4				4				
5				5				
6				6				
7				7				
8				8			-	
9				9				
Percent of Dominant Species that		FACW, or FA	/C				-	
(excluding FAC-).	70	·						
Remarks:								
YITIDDOX OCIV								
HYDROLOGY Recorded Data (Des	oniho in Do	morles)		Wetland Hy	drology Indicators			
Recorded Data (Des				1	Wetland Hydrology Indicators Primary Indicators			
X Aerial Pho	-	J			Inundated			
Other	A !1 -1-1 -			-	Saturated in Up Water Marks	per 12 inche	S	
No Recorded Data	Avanaoie				Drift Lines			
Field Observations:					Sediment Depo	sits		
,		,	ywani /		Drainage Patter		ds	
					ndicators (2 or more and or mo			
Depth to Free Water in Pit: > 18 (in)				(in) —	Water-Stained			
Depth to Saturated Soil: // (in)			(in)	Local Soil Surv	ey Data			
					FAC-Neutral T Other (explain			
					Outer (explain	m remarks)	<u></u>	
Remarks:								

Map Unit Na	ame:				
(Series and I	Phase): ASHK	UM SILTY CL	Drainage Class	PD	
Taxonomy (Subgroup) TY P	nc HAPLAQU	iolls	Field Observations Confirm Mapped Type	e? (Yes) No
Profile Desc	ription				
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		101,85/1	APPLICATION OF THE PROPERTY OF	-	31CL
				• · · · · · · · · · · · · · · · · · · ·	
Hydric Soil Indicators: HistosolHistic EpipedonSulfidic OdorAquic Moisture RegimeReducing ConditionsGleyed or Low-Chroma Colors Remarks: A 12 THICK DARK SURFA			Organic Strea Listed on Loc Listed on Nat Other	Content in Surface Layer aking in Sandy Soils cal Hydric Soils List cional Hydric Soils List	in Sandy Soil
Kemarks.	1 m	Wall to the second seco	4. 4		
\		NA #			
WEILAN	D DETERMINATION				
Hydronhyt	ic Vegetation Preser	(Circle) nt Yes No	5		(Circle)
i	lydrology Present	Yes No	s I	ampling Point in a Wet	· Marine Marine
Hydric Soi				400 F 400 -	
Remarks:		Thirds are the			
TOMAIN.					

(1987 COE Wetland Delineation Manual)							
Project/Site: Onyx Emerald Park Landfill					Date: October 2	25, 2005	
Applicant/Owner: Onyx Waste Services					County: V	Vaukesha	
Investigator: <u>Jerry Kelly,</u>	Rachel V	/eltman			State: V	Visconsin	
Do normal circumstances ex	ist on thi	s site?	(Ye	No	Community ID: \(\frac{1}{\lambda}\)	METLAND	
Is the site significantly distu	rbed (Aty	pical Situ	ation)? Ye	es No	Transect ID:		
Is the site a potential problem	m area?		Υe	es (No)	Plot ID: W4-P1	4	
VEGETATION	······						
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. Phalaris arundinacea 2. Solidaco canaderisis 3.	<u> </u>	20	FACU	1. Euthamia gras 2. Sondaus arv	<u>minito</u> lia <u>IH</u> Rusis <u>II</u>	<u>45</u> 45	FAC-
				4			
5				5	·	***************************************	
6				6			
7				7			
8				8		Name of State of Stat	
9				9			
Percent of Dominant Species that		ACW, or FA	C				
(excluding FAC-). 50%							
Acmarks.							
HADBOLOGA							<u></u>
HYDROLOGY Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge X Aerial Photographs Other No Recorded Data Available			1	Wetland Hydrology Indicators Primary Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines			
Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: (in) (in)				n)	Sediment Depo Drainage Patte Indicators (2 or more Oxidized Root Water-Stained Local Soil Sur FAC-Neutral T	ms in Wetlan required) Channels Leaves vey Data Test	ds
Remarks:							

Map Unit Na	ame:						
(Series and P	Phase): ASHK	IN SILTY CLA	Drainage Class PD				
ļ `	•	PIC HAPLAQ	Field Observations Confirm Mapped Type? (Yes) No				
Profile Descr	ription						
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Texture, Concretions, Abundance/Contrast Structure, etc.			
0-14		10/23/1	PTR97	SICL			
14>18		10YR 2/1	575/3	COMMON/PROMINENT SICL			
Hydric Soil I	Indicators:	,					
Hist	stosol stic Epipedon Ifidic Odor uic Moisture Regime ducing Conditions eyed or Low-Chroma C	Colors	Organic Str Listed on L	s nic Content in Surface Layer in Sandy Soil reaking in Sandy Soils local Hydric Soils List Vational Hydric Soils List			
Remarks: F3 DEPLETED MATRIX							
WETLAND	D DETERMINATIO	N					
		(Circle)					
Hydrophyti	ic Vegetation Preser	nt <u>Yes</u> No	o	(Circle)			
Wetland H	lydrology Present	Yes No	o Is This	Sampling Point in a Wetland (Yes) No			
Hydric Soil	ls Present	(Yes) No	o				
Remarks:							

		(1987 C	OE Welland	Delineation Manu	at)				
Project/Site: Onyx Emer	ald Park	Landfill			Date: October 25, 2005				
Applicant/Owner: Onyx Waste Services					County:	W	aukesha		
Investigator: <u>Jerry Kelly, Rachel Veltman</u>					State:	W	isconsin	·····	
Do normal circumstances ex	xist on thi	is site?	(Ýe	s) No	Community	y ID: <u> </u>	PLAND		
Is the site significantly distu	urbed (At	ypical Situ	ation)? Ye	s No	Transect II	D:			
Is the site a potential proble	m area?		Ye	s (No)	Plot ID:	W4-	P2-		
VEGETATION			······································						
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Str	atum	% Cover	Indicator	
1. Solidago canadensis	_ H	20	FACU	1. Aster ericoid	es	H.	45	FACU-	
2. Solidago gigantea	<u></u> \~	20	FACW	2. Melilotus all	<u> </u>	<u></u>	45	FACU	
3. Taranacum officinale	14	20	FACU	3. Dancus carol		<u></u>	<u>~5"</u>	UPL	
4. Festuca arundinacea	<u> </u>	20	FACU+	4. Geum lacinio	atum _	1 -+	£ 5	FACW	
s. Phalaris arundinacea	j~1	20	FACWA	5	 				
6				6	<u> </u>				
7,				7					
8				8					
9		. <u></u>		9					
Percent of Dominant Species that		ACW, or FA	ıC						
(excluding FAC-).	<u> </u>					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Remarks:									
THE POLICE IN							vi. i		
HYDROLOGY		1 \		W-d 1 TI-	drology Indica				
Recorded Data (Desc Stream, Lak				Primary Indi		1018			
X Aerial Photo		Ŭ		_	Inundated				
Other					Saturated in Upper 12 inches Water Marks				
No Recorded Data A	vallable			_	water N Drift Lin				
Field Observations:		Sedime		its					
Depth of Surface Wa	Secondary I								
Depth to Free Water	Secondary II			equired) Channels					
Depth to Saturated S			Stained L						
Depin to Saturated S	OII.		· 18 (in	"	Local S FAC-No				
							n remarks)		
Remarks:									
				•					

DATA FORM

ROUTINE WETLAND DETERMINATION (1987 COE Wetland Delineation Manual)									
SOILS	OE Welling Delinear								
Map Unit Name:									
(Series and Phase): ASHKUM SILTY	CLAY LOAM	Drainage Class	PO						
Taxonomy (Subgroup) TYPIC HARLAGUOLLS Field Observations Confirm Mapped Type? (Yes) No									
Profile Description									
Depth Matrix Color (inches) Horizon Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.						
0-12 104R 2/1		wild conserv	51CL						
12>24 543/2	, 25 0.46.1	· man	c. L.						
Hydric Soil Indicators:									
Histosol Histic Epipedon	Concretions	Content in Surface Layer	in Sandy Soil						
Sulfidic Odor	Organic Streak	ing in Sandy Soils	in Saudy Son						
Aquic Moisture Regime Reducing Conditions	Listed on Loca A Listed on Nation	l Hydric Soils List onal Hydric Soils List							
Gleyed or Low-Chroma Colors	Other	3.1u. 1.) u 55 2							
Remarks: F3 BEPLETED MATRIX									
WETLAND DETERMINATION									

Remarks: F 3 DEPLETED MATRIX		
WETLAND DETERMINATION		
(Circle)		
Hydrophytic Vegetation Present Yes (No)	·	ircle)
Wetland Hydrology Present Yes No	Is This Sampling Point in a Wetland Ye	s (No)
Hydric Soils Present Yes No		
Remarks:		

Project/Site: Onyx Emerald Park Landfill	Date: October 25, 2005				
Applicant/Owner: Onyx Waste Services	County: Waukesha				
Investigator: Jerry Kelly, Rachel Veltman	State: Wisconsin				
	Community ID: UPLAND				
EMOTHWORK	Transect ID:				
Joseph Line Land	Plot ID: W4-P3				
***************************************	P.O. ID				
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator				
1. Festuca arundinacea 1-1 40 FACUT 1. Rumex crise 2. Solidano canadensis 1-1 20 FACU 2. Medicago sa	tiva H 10 UPL				
3. Agrostis gigantea 1-1 20 FACW 3. Taraxacumor	ficinale 14 25 FACU				
4 4 5 5					
66					
7 7					
88					
9 9					
Percent of Dominant Species that are OBL, FACW, or FAC					
(excluding FAC-). 3 3 978					
Remarks:					
HYDROLOGY	Junta and Tradicate and				
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge Wetland Hyd Primary Indi					
X Aerial Photographs	InundatedSaturated in Upper 12 inches				
No Recorded Data Available	Water Marks Drift Lines				
Field Observations:	Sediment Deposits				
	Drainage Patterns in Wetlands ndicators (2 or more required)				
Depth to Free Water in Pit: > 18 (in) —	Oxidized Root Channels Water-Stained Leaves				
Depth to Saturated Soil:(in)	Local Soil Survey Data				
	FAC-Neutral Test Other (explain in remarks)				
Remarks:					

Map Unit Name:							
(Series and Phase):	LIOTT SILT LOA	M	Drainage Class	SPD			
Taxonomy (Subgroup)	AQUIC ARGIUDO	LLS	Field Observations Confirm Mapped Type? (Yes) No				
Profile Description				Consequence of the second			
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.			
0>18	1016 5V	gament .		SIL, FILL AREA			
Hydric Soil Indicators:		a					
Histosol Histic Epipedon	_ _		c Content in Surface Layer	r in Sandy Soil			
Sulfidic Odor Aquic Moisture Re	egime		aking in Sandy Soils cal Hydric Soils List				
Reducing Conditio	ns _	Listed on Na	tional Hydric Soils List				
Gleyed or Low-Ch	roma Colors	Other					
Remarks: A12 Thic	IN DARK SURFAC	and the second s					
	e BE AN ASHKUN		n profice.				
WETLAND DETERMIN	NATION						
	(Circle)						
Hydrophytic Vegetation	Present Yes (1	ig)		(Circle)			
Wetland Hydrology Pres			Sampling Point in a We	tland Yes No			
Hydric Soils Present	Yes N	lo l		***			
Remarks:							

		(1207 C	OL WOUND	i Delineation isan	,				
Project/Site: Onyx Er	nerald Park I	Landfill			Date:_	October 2	25, 2005		
Applicant/Owner:		County: Waukesha							
Investigator: <u>Jerry Ke</u>		State:_	V	Visconsin					
Do normal circumstance	s exist on thi	s site?	∠Y€	No	Comm	unity ID: <u>L</u>	WETLAN	D	
Is the site significantly d	isturbed (Aty	pical Situ	-11.7		Transe	ct ID:			
Is the site a potential pro	blem area?		Ye		Plot ID	: W4.	-P4		
VEGETATION									
Plant Species	Stratum	% Cover	Indicator	Other Plant Species		Stratum	% Cover	Indicator	
1. Poa praterisis	<u> </u>	40	FACT	1. Agrostis gig	antea	1-4		FACW	
2. Helianthus grossese	rratus H	20	FACW-	2. Aster novae-	angliae	<u> - </u>	<u> </u>	FACW	
3 Euthamia graminis	olia_H	20	FACW-	3. Aster pilos	us		45	FACU+	
4			·········	4. Solidado mid	idellis	1-1	<u> </u>	OBL	
5				5. Scirpus per	<u>rdulu</u> s	14	45	OBL	
6				6					
7				7					
8				8					
9				9				· · · · · · · · · · · · · · · · · · ·	
Percent of Dominant Species (excluding FAC-).		ACW, or FA	vC						
Remarks:	,,,								
HYDROLOGY									
Recorded Data (D	Describe in Rei Lake, or Tide			Wetland H		ndicators			
X Aerial Pl	hotographs	Cauge			Primary IndicatorsInundated				
OtherOtherOther	a Available			_		urated in Up ter Marks	oper 12 inche	:S	
						ft Lines liment Depo	vaita		
Field Observations:	*** .		^ °		Dra	inage Patte	rns in Wetlan	ıds	
Depth of Surface Depth to Free Wa			\ \(\frac{1}{2}\)	n) Secondary		(2 or more : idized Root			
Depth to Saturate		<u> </u>	<u> </u>	n) —		ter-Stained cal Soil Surv			
			·	_	⋉ FA	C-Neutral T			
Remarks: TOPOGRA	PHIC LOI	N ARE	A		Uu	(pania			
ii .									

Map Unit N	lame:						
(Series and	Phase): ASHK	UM SILTY	Drainage Class	. PD			
Taxonomy	(Subgroup) TYPIC	- HAPCAQU	JOLLS		Field Observations Confirm Mapped Type	e? (Yes) No	
Profile Description							
Depth Matrix Color (inches) Horizon Munsell Moist				Concentration Concentration Texture, Concretion Color Abundance/Contrast Structure, etc.			
0-11	0-11 10YR2/1 _					SICL	
11718		545/I	2,5	76/8	MANT/PROMINENT	7 <u> </u>	
			-				
<u></u>							
Hydric Soil	Indicators:						
	stosol			oncretions	Content in Surface Layer	in Sandy Soil	
Su	stic Epipedon Ilfidic Odor		Oı	ganic Streak	ing in Sandy Soils	III Salidy Soli	
	quic Moisture Regime educing Conditions				al Hydric Soils List Onal Hydric Soils List		
	leyed or Low-Chroma (Colors		her			
Remarks:	A12 THICK	DARK SURFA	1CE				
Remarks.		, , , , , , , , , , , , , , , , , , ,					
WETLAN	ID DETERMINATION	DN					
		(Circle)					
1	tic Vegetation Preser	nt Yes				(Circle)	
	Hydrology Present	Yes	No	Is This Sa	mpling Point in a Wet	land Yes No	
Hydric Sc	ils Present	⟨Yes⟩	No				
Remarks:							
1							

	· · · · · · · · · · · · · · · · · · ·	· '		d Dollioution 1/100		25 2005			
Project/Site: Onyx Eme									
Applicant/Owner: On		County: V							
Investigator: Jerry Kelly		State: V	Visconsin						
Do normal circumstances	exist on this	site?	CY.	es No	Community ID:_\	JPLAND			
Is the site significantly dis	turbed (Atyı	pical Situ	ation)? Y	es (No)	Transect ID:				
Is the site a potential probl	es (No)	Plot ID: WH	-P5						
VEGETATION									
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator		
1. Glysine max		40	UPL	1. Tarahasum off	icinale I-1	55	FACU		
2. Medicago sativa	J1	40	UPL	2. Dancis caro	ta 14	_5	UPL		
3					radensis H				
4				4. Ambrosia at	temisiifolia H	<u> </u>	FACU		
5				5					
6				6					
7				7		<u> </u>			
8			·	8					
9	****		-	9					
Percent of Dominant Species tha		CW, or FA	C						
(excluding FAC-).	10								
Remarks:									
HYDROLOGY	<u></u>								
Recorded Data (Des	scribe in Rem	arks)		Wetland Hy	drology Indicators				
Stream, La X Aerial Pho	ke, or Tide C	auge		Primary Inc	licators Inundated				
Other					Saturated in Upper 12 inches				
No Recorded Data	Available				Water Marks Drift Lines				
Field Observations:	- 			_	Sediment Depo		J.		
Depth of Surface W	ater:			in) Secondary	Drainage Patte Indicators (2 or more	required)	as		
Depth to Free Wate	r in Pit:	>		in) —	Oxidized Root Water-Stained	Channels			
Depth to Saturated	Soil:	>	18 (in)	Local Soil Sur	vey Data			
				· —	FAC-Neutral 7Other (explain				
Remarks:		****							
N .									

Concentration Concentratio	Map Unit l	Name;					
Taxonomy (Subgroup) Profile Description Depth Munsell Moist Color Munsell Moist Color Color Abundance/Contrast Structure, etc. C-ID 10 YR 3/2	(Series and	l Phase): <u> </u>	4 SILTY CI	M	Drainage Class	PD	
Depth (inches) Horizon Matrix Color Munsell Moist Color Abundance/Contrast Structure, etc.	Taxonomy (Subgroup) TYPIC HAPLAQUOLLS			<u></u>		e? Yes (No)	
Color Abundance/Contrast Structure, etc.	Profile Des	scription					
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION WETLAND DETERMINATION Wetland Hydrology Present Wetland Hydrology Present Yes No Hydric Soils Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present		Horizon			ntration		
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Remarks: WETLAND DETERMINATION Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils List on Local Hydric Soils List Listed on National Hydric Soils List Other WETLAND DETERMINATION (Circle) Hydrophytic Vegetation Present Wetland Hydrology Present Yes No Hydric Soils Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present	0-10		10 YA 3/2		Miles Inc.		SIL
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION Circle Hydrophytic Vegetation Present Wetland Hydrology Present Hydric Soils Present Yes No High Organic Content in Surface Layer in Sandy Soil Aligh Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Circle) Hydrophytic Vegetation Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No	10>18		10YR5/8		.mride.	Whated	<u> </u>
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION Circle Hydrophytic Vegetation Present Wetland Hydrology Present Histosol Concretions High Organic Content in Surface Layer in Sandy Soil Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Circle) Hydrophytic Vegetation Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No				_			
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION Circle Hydrophytic Vegetation Present Wetland Hydrology Present Hydric Soils Present Yes No High Organic Content in Surface Layer in Sandy Soil Aligh Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Circle) Hydrophytic Vegetation Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No				-			
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION Circle Hydrophytic Vegetation Present Wetland Hydrology Present Hydric Soils Present Yes No High Organic Content in Surface Layer in Sandy Soil Aligh Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Circle) Hydrophytic Vegetation Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No							
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION Circle Hydrophytic Vegetation Present Wetland Hydrology Present Hydric Soils Present Yes No High Organic Content in Surface Layer in Sandy Soil Aligh Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Circle) Hydrophytic Vegetation Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No				_			
Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors WETLAND DETERMINATION Circle) Hydrophytic Vegetation Present Wetland Hydrology Present High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Check Chroma Colors WETLAND DETERMINATION (Circle) Hydrophytic Vegetation Present Yes No Hydric Soils Present Yes No	Hydric Soi	il Indicators:					
WETLAND DETERMINATION (Circle) Hydrophytic Vegetation Present Yes No Wetland Hydrology Present Yes No Hydric Soils Present Yes No Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No	H A R	listic Epipedon ulfidic Odor .quic Moisture Regime .educing Conditions	olors	Hi Oi N Li Li	gh Organic ganic Strea sted on Loc sted on Nat	king in Sandy Soils al Hydric Soils List	in Sandy Soil
(Circle) Hydrophytic Vegetation Present Yes No (Circle) Wetland Hydrology Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No	Remarks:						
(Circle) Hydrophytic Vegetation Present Yes No (Circle) Wetland Hydrology Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No				- Control of the Cont			
Hydrophytic Vegetation Present Yes No (Circle) Wetland Hydrology Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No	WETLA	ND DETERMINATIO					
Wetland Hydrology Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No							
Hydric Soils Present Yes No				The same of the sa			Barrier Strange
<u> </u>	il .				Is This S	ampling Point in a Wet	land Yes (No)
Remarks:	Hydric S	oils Present	Yes ((N ⁰)			
	Remarks	:					

(1987 COE Wetlan	d Delineation Manu	al)				
Project/Site: Onyx Emerald Park Landfill		Date: October 25, 2005				
Applicant/Owner: Onyx Waste Services		County: W	Vaukesha			
Investigator: <u>Jerry Kelly, Rachel Veltman</u>		State: V	Visconsin			
Do normal circumstances exist on this site?	es No	Community ID:	NETLAN	٥		
Is the site significantly disturbed (Atypical Situation)? Y	es No	Transect ID:				
Is the site a potential problem area?	es No	Plot ID: W4	- P6			
VEGETATION						
Plant Species Stratum % Cover Indicator	Other Plant Species	Stratum	% Cover	Indicator		
1. Sportina pectinata H 80 FACW+		iulosa H		FACU		
2	2. Silphium terel	sinthinaceum H		FACU		
3		<u>H</u>		FACW+		
4	4. Helianthus gras	seserratus H		FACW-		
5	5. Enthamia gran	initolia H	45	FACW-		
6	6	~·/				
7	7					
8	8					
9	9					
Percent of Dominant Species that are OBL, FACW, or FAC						
(excluding FAC-). \ O O %						
Remarks:						
HYDROLOGY						
Recorded Data (Describe in Remarks)	Wetland Hy	drology Indicators				
Stream, Lake, or Tide Gauge X Aerial Photographs	Primary Ind	icators Inundated				
Other		Saturated in Upper 12 inches				
No Recorded Data Available		Water Marks Drift Lines				
Field Observations:		Sediment Deposits				
Depth of Surface Water:	in) Secondary I	∠ Drainage Patter ndicators (2 or more)		ds		
Depth to Free Water in Pit:	in)	Oxidized Root Water-Stained				
Depth to Saturated Soil:	in)	Local Soil Surv				
	-	FAC-Neutral T Other (explain				
Remarks:		The contract of the contract o				

DATA FORM ROUTINE WETLAND DETERMINATION

(1987 COE Wetland Delineation Manual) SOILS Map Unit Name: PD ASHKUM SILTY CLAY LOAM (Series and Phase):_ Drainage Class_ Field Observations Taxonomy (Subgroup) TYPIC HAPLAQUOLLS

Taxonomy (Subgroup)				Confirm Mapped Type	e? Yes (No)
Profile Description					
Depth (inches) Horizon	Matrix Color Munsell Moist	Conce Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>12	N7.5/0				MUCK
					
- Herring -					
<u> </u>					
Reducing Conditions Gleyed or Low-Chroma Remarks: A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			sted on Nation	onal Hydric Soils List	
WETLAND DETERMINAT	ION				
	(Circle)				
Hydrophytic Vegetation Pres	ent Yes 1	No ol			(Circle)
Wetland Hydrology Present	Yes 1	νo	Is This Sa	mpling Point in a Wet	land (Yes) No
Hydric Soils Present	Yes 1	No			
Remarks:					
THE REPORT OF THE PERSON OF TH					

		(1907 C	OF Menan	id Denne	ation Manu	(41 <i>)</i>			····	
Project/Site: Onyx Eme	rald Park l	Landfill			Date: October 25, 2005					
Applicant/Owner: Onyx Waste Services					County: Waukesha					
Investigator: Jerry Kelly, Rachel Veltman						State: Wisconsin				
Do normal circumstances e	xist on thi	s site?	(Ÿ	es No	Community ID: UPLAND					
Is the site significantly dist	urbed (Aty	ypical Situ	ation)? Y	es No)	i				
Is the site a potential problem area? Yes No					<u>5</u>)	Plot ID:	<u> W4</u>	-P7		
VEGETATION										
Plant Species	Stratum	% Cover	Indicator	Other P	lant Species		Stratum	% Cover	Indicator	
1. Triticum aestivum	<u> </u>	80	UPL	1. Tare	exacum of	ficinale			FVCO	
2				2. G	yeine ma	χ	_H	10	UPL	
3				3						
4				4						
5		***************************************	·	5	·····					
6				6						
7				7						
8				8						
9		•		9						
Percent of Dominant Species tha	t are OBL, F	ACW, or FA	VC							
(excluding FAC-).								-,:-W		
Remarks.										
HYDROLOGY							·			
HYDROLOGY Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge X Aerial Photographs Other No Recorded Data Available Wetland Hydrology Indicators Primary Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines							3			
Field Observations:		Sediment Deposits				da				
Depth of Surface Water: (in)				Drainage Patterns in Wetlands Secondary Indicators (2 or more required)						
Depth to Free Water	r in Pit:			(in)			dized Root er-Stained			
Depth to Saturated S	Soil:		10	(in)			al Soil Surv C-Neutral T			
								in remarks)		
Remarks:										

SOILS Map Unit Name: DDA SHKUM SILTY CLAY LOAM Drainage Class (Series and Phase): TYPIC HAPLAQUOLLS Field Observations Taxonomy (Subgroup) Confirm Mapped Type? Yes **Profile Description** Texture, Concretions, Depth Concentration Matrix Color Concentration Abundance/Contrast Structure, etc. (inches) Horizon Munsell Moist Color SICL 0-10 10718 5Y5/8 MANY /PROMINENT سات Hydric Soil Indicators: Histosol Concretions High Organic Content in Surface Layer in Sandy Soil Histic Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List **Reducing Conditions** Listed on National Hydric Soils List _Gleyed or Low-Chroma Colors Other All DEPLETED BELOW DARK SURFACE Remarks: WETLAND DETERMINATION (Circle) (No (Circle) Hydrophytic Vegetation Present Yes Wetland Hydrology Present Yes Is This Sampling Point in a Wetland Yes (Yes) Hydric Soils Present No Remarks:

(1987 COE Wetland Delineation Ma	Muaij							
Project/Site: Onyx Emerald Park Landfill	Date: October 25, 2005							
Applicant/Owner: Onyx Waste Services	County: Waukesha							
Investigator: Jerry Kelly, Rachel Veltman	State: Wisconsin							
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND							
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:							
Is the site a potential problem area? Yes No	Plot ID: W4-P8							
VEGETATION								
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator							
1. Phalaris arundinacea H 80 FACW+ 1.								
2. Typha * glauca H 20 OBL 2.								
3 3								
4 4								
5 5								
6								
7 7								
8 8								
9 9								
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-).								
Remarks:								
Remarks.								
HYDROLOGY								
Recorded Data (Describe in Remarks) Wetland I	Hydrology Indicators indicators							
Stream, Lake, or Tide Gauge X Aerial Photographs	Inundated							
Other No Recorded Data Available	Saturated in Upper 12 inches Water Marks							
	Drift Lines							
Field Observations:	Sediment Deposits Drainage Patterns in Wetlands							
1	y Indicators (2 or more required) Oxidized Root Channels							
2	Water-Stained Leaves							
Depth to Saturated Soil:(in)	Local Soil Survey Data K FAC-Neutral Test							
	Other (explain in remarks)							
Remarks:								

SOILS	`				The state of the s	
Map Unit Name:						
(Series and Phase): ASHKU	IM SILTY CL	agy ya.	M	Drainage Class		
Taxonomy (Subgroup)	c HAPLAQ	Field Observations Confirm Mapped Type? Yes (No)				
Profile Description						
Depth (inches) Horizon	Matrix Color Conc Munsell Moist Color		ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0>12	N 2.5/0		Mr.ch.	cylent.	MUCK	
Hydric Soil Indicators:						
Hydric Soil Indicators: X						
Remarks: A H 1570500	-					
WETLAND DETERMINATION						
VEILAND DETERMINATION	(Circle)					
Hydrophytic Vegetation Prese	`	No			(Circle)	
Wetland Hydrology Present		No	Is This Sa	ampling Point in a We	, in the second second	
Hydric Soils Present	200	No			and security of	
Remarks:	· ·		****			
A EVALUATION						

					, , , , , , , , , , , , , , , , , , , 		**************************************	
Project/Site: Onyx Eme		Date:	October 2	27, 2005				
Applicant/Owner: Onyx Waste Services						<u>v</u>	Vaukesha	
Investigator: <u>Jerry Kell</u>	y, Rachel '	Veltman			State:	V	Visconsin	
Do normal circumstances	exist on th	is site?	(Ý	es) No	Commu	nity ID:_	UPLAND	
Is the site significantly dis	es) Novietland	Transec	t ID:					
Is the site a potential probl	es (No)	Plot ID:	WS.	-P1				
VEGETATION					1			
Plant Species	Stratum	% Cover	Indicator	Other Plant Species		Stratum	% Cover	Indicator
1. Glycine max	1-1	30	UPL	1. Pennesetum q	aucum	<u>H</u>		FAC.+
2. Thlaspi arvense	<u>H</u>	<u>30</u>	UPL	2. Daucus caro				UPL
3				3. Fragaria Vira	intatra	<u>H</u>		FACT
4				4. You praterist	15		5×4 2	FAC-
5				s. Solidago cons	adensis	<u>H</u>		
6	**************************************	· · · · · · · · · · · · · · · · · · ·		6. Sanchus arve	ens is	<u> </u>	<u> </u>	FAC-
7			 	7. Taraxacum d	ifficinal	e H	_45	FACU
8				8				
9				9				
Percent of Dominant Species the		FACW, or FA	'C					
(excluding FAC-).								
Remarks:	•							
HYDROLOGY								
Recorded Data (De	ke, or Tide tographs			Wetland Hyd Primary Indi	icators Inund Satu Wate	dated	oper 12 inches	3
Field Observations:						ment Depo	sits rns in Wetlan	da
Depth of Surface W	in) Secondary I	ndicators (2 or more:	required)	uo			
Depth to Free Water	er in Pit:		.0	(in)		lized Root er-Stained		
Depth to Saturated	Soil:		18 ((in)	FAC	al Soil Surv -Neutral T er (explain		
Remarks: To POGE	PHIC	LOW A	P.E.A				,	

Map Unit Nam	ie:						
(Series and Pha	ase): ASH	KUM SILTY	mad yajc	Drainage Class	PD		
Taxonomy (Su	bgroup) TY	PIC HAPLAQU	ocus	Field Observations Confirm Mapped Typ	e? (Yes) No		
Profile Descrip	<u>otion</u>				Control of the Contro		
Depth (inches) I	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-14		10YR2/1	Panton	partition.	SICL		
14>18		50% 10(RZ/1	gat tipe ,	Spirit Plant I	SICL		
		50% 10YR3/3	(erbine)		SICL		
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other Remarks:							
WETLAND DETERMINATION							
		(Circle)					
Hydrophytic Vegetation Present Yes No Wetland Hydrology Present Yes No Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No							
Remarks:							

(1987 COE Wettahu Demication Ma								
Project/Site: Onyx Emerald Park Landfill	Date: October 27, 2005							
Applicant/Owner: Onyx Waste Services	County: Waukesha							
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: Wisconsin							
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND							
Is the site significantly disturbed (Atypical Situation)? (Yes) No BUETO NAME OF THE PARTIES OF	Transect ID:							
Is the site a potential problem area? Yes (No	Plot ID: WGA-PI							
VEGETATION								
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator							
3. Astes land 4. Polygorman 5. S. Misma sul	iriais H 10 FACT ceolatus H 45 FACW hydropicer H 45 OBL boordatum H 45 OBL							
l e e e e e e e e e e e e e e e e e e e								
9 9								
Percent of Dominant Species that are OBL, FACW, or FAC								
(excluding FAC-).								
Kemarks.								
HYDROLOGY								
	InundatedSaturated in Upper 12 inchesWater MarksDrift Lines							
Depth to Free Water in Pit: Depth to Saturated Soil: Saturated Soil	Sediment Deposits Drainage Patterns in Wetlands y Indicators (2 or more required) Oxidized Root Channels Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (explain in remarks)							
Remarks: TOPOGRAPIC LOW AREA								

501110								
Map Unit Name:								
(Series and Phase): ASHKU	M SILTY CLA	Drainage Class	PD					
Taxonomy (Subgroup) TYPIC	HAPLAQUO	Field Observations Confirm Mapped Type	e? (Yes) No					
Profile Description								
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.				
0-12	10YR2/1			SICL				
12-	5 GY 7/1	10YR6/8	MANY/PROMINENT	C (~ 1/1N. THUCK)				
12>18	10YR2/1	<i></i>		<u>C</u>				
Hydric Soil Indicators:		Concretions						
Histosol Histic Epipedon		High Organic	Content in Surface Layer	in Sandy Soil				
Sulfidic Odor Aquic Moisture Regime			king in Sandy Soils al Hydric Soils List					
Reducing Conditions Gleyed or Low-Chroma	Colors	Listed on Nati	onal Hydric Soils List					
Remarks: AII DEPLETED	BELOW DAR	k surface						
WETLAND DETERMINATION								
	(Circle)							
Hydrophytic Vegetation Prese	nt (Yes N	o		(Circle)				
Wetland Hydrology Present	(Yes) N	o Is This Sa	ampling Point in a Wet	land (Yes) No				
Hydric Soils Present	(Yes N	o	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Remarks:								
			•					
II.								

		(1707 C	OJS Wellan	d Delineation Wan	11112)			
Project/Site: Onyx Eme	Date: Octol	per 27, 2005						
Applicant/Owner: On	County:	Waukesha						
Investigator: <u>Jerry Kelly</u>	State:	Wisconsin						
Do normal circumstances e	Do normal circumstances exist on this site? Yes No)	
Is the site significantly dist	Transect ID:_							
Is the site a potential proble	Plot ID:	16A-P2						
VEGETATION								
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratu	m % Cover	Indicator	
1. Dancins carota				1. Aster lanced			FACW	
2. Medicago sativa		20	UPL	2. Aster pilo				
3. Taraxacum officinale	-	70	FACU	3. Trifolium h	iybridum I-	45	FAC-	
4				4				
5				5				
6				6	<u>,,</u>			
7				7				
8				8				
9				9				
Percent of Dominant Species tha (excluding FAC-).		FACW, or FA	AC					
Remarks:								
HYDROLOGY								
Recorded Data (Des Stream, Lal				Wetland H Primary Inc	ydrology Indicato dicators	rs		
X Aerial Phot		Caugo			Inundated	** 10 1 1		
Other No Recorded Data A	\vailable				Saturated i Water Mai	n Upper 12 inch ks	es	
					Drift Lines			
Field Observations:				-	Sediment I	Deposits Patte rn s in Wetla	nds	
Depth of Surface Wa	ater:			in) Secondary	Indicators (2 or n	ore required)		
Depth to Free Water	in Pit:		>18 (in) —		Root Channels ned Leaves		
Depth to Saturated S	Soil:		> 18	in)	Local Soil	Survey Data		
				_	FAC-Neut Other (exp	ral Test lain in remarks)		
Remarks:			· · · · · · · · · · · · · · · · · · ·					

Map Unit Name:	Map Unit Name:							
(Series and Phase): A SHKU	IM SILTY CLA	Y LOAM	Drainage Class	<u>612</u>				
Taxonomy (Subgroup) TYPIC	HAPLAQUOI	Field Observations Confirm Mapped Type	e? 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	spine(re	STREET.	SICL				
4>18	10YR 4/3	TAPPACE	. نوين	SIL				
· · · · · · · · · · · · · · · · · · ·								
<u> </u>								

Hydric Soil Indicators:								
Histosol Concretions Histic Epipedon High Organic Content in Surface Layer in Sandy Soil Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other								
Remarks:								
WETLAND DETERMINATION	ON							
	(Circle)							
Hydrophytic Vegetation Preser	nt Yes No	2		(Circle)				
Wetland Hydrology Present	Yes (No	ey.	mpling Point in a Wet	land Yes (No)				
Hydric Soils Present	Yes (No)						
Remarks:								

(1987 COE Wetland Delineation Manual)								
Project/Site: Onyx Eme	rald Park l	Landfill			Date: October	27, 2005		
Applicant/Owner: Or	County:	Waukesha	· · · · · · ·					
Investigator: <u>Jerry Kell</u> y	State:	Wisconsin						
Do normal circumstances e	Do normal circumstances exist on this site? Yes No						\overline{D}	
Is the site significantly dist	urbed (At	ypical Situ	ation)? Y	es No	Transect ID:			
Is the site a potential probl	em area?		Y	es (No)	Plot ID: W6-9	<u> PI;W6</u>	<u>A</u> -P3	
VEGETATION								
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator	
1. Glycine max	H	40	UPL	1				
2. Planto-90 major	<u>H</u>	20	FACT	2,				
3. Taraxacum officino	Je H	20	FACU	3				
4. Daucus carota	-	20	UPL	4				
5				5				
6				6				
7				7			•	
8	<u></u>			8				
9				9		. <u> </u>		
Percent of Dominant Species tha		ACW, or FA	VC					
(excluding FAC-), 25%								
Remarks:								
IIVDROLOGV								
HYDROLOGY Recorded Data (Des	scribe in Re	marks)		Wetland Hy	ydrology Indicators			
Stream, La	ke, or Tide			Primary Inc				
X Aerial Pho Other	tographs				Inundated Saturated in U	pper 12 inche	S	
No Recorded Data	Available				Water Marks			
					Drift Lines Sediment Dep	!+-		
Field Observations:				-	Sediment Dep Drainage Patte		ıds	
Depth of Surface W	ater:			in) Secondary	Indicators (2 or more	required)		
Depth to Free Wate	r in Pit:			in) —	Oxidized Roo Water-Stained			
Depth to Saturated	Soil:	>	<u> 18 </u>	in)	Local Soil Sui	vey Data		
				_	FAC-Neutral			
					Other (explain	michialks)	 	
Remarks:								

SOILS Map Unit Name: SPD ELLIOTT SIET LOAM Drainage Class_ (Series and Phase): AQUIC ARGIUDOLLS Field Observations Taxonomy (Subgroup)_ Confirm Mapped Type? Yes **Profile Description** Texture, Concretions, Depth Matrix Color Concentration Concentration Abundance/Contrast Structure, etc. (inches) Horizon Munsell Moist Color SICL 10YR 3 SIL Hydric Soil Indicators: Concretions **Histosol** High Organic Content in Surface Layer in Sandy Soil Histic Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Aquic Moisture Regime Listed on National Hydric Soils List Reducing Conditions Other Gleyed or Low-Chroma Colors Remarks: WETLAND DETERMINATION (Circle) (Circle) Hydrophytic Vegetation Present Yes Is This Sampling Point in a Wetland Yes Wetland Hydrology Present Yes Hydric Soils Present Yes

Remarks:

Project/Site: Onyx Emerald Park Landfil	1		Date: October 27, 2005
Applicant/Owner: Onyx Waste Servic	es		County: Waukesha
Investigator: Jerry Kelly, Rachel Veltman	State: Wisconsin		
Do normal circumstances exist on this site?) No	Community ID: WETLAND
Is the site significantly disturbed (Atypical S	(No)	Transect ID:	
	Situation)? Yes Yes	(No)	Plot ID: W 6-PZ
Is the site a potential problem area?	100	CINO	1101 10.
VEGETATION Plant Species Stratum % Cov	ver Indicator C	Other Plant Species	Stratum % Cover Indicator
1. Phalaris arundinacea 1-1 90			
2. Salix exigue 5 50	08L 2	Aster lanced	platus H 5 FACW
3			
4.			
5		5,	
6		·	
7			
8			
9.			
Percent of Dominant Species that are OBL, FACW, o			
(excluding FAC-). \ OO %			
Remarks:	,		
HYDROLOGY		1 1 77	
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge		Wetland Hye Primary Indi	drology Indicators icators
X Aerial Photographs			Inundated Saturated in Upper 12 inches
Other No Recorded Data Available			Saturated in Opper 12 inches Water Marks
110 10001404 2			Drift Lines
Field Observations:		_	Sediment DepositsDrainage Patterns in Wetlands
Depth of Surface Water:	(in)	Secondary I	ndicators (2 or more required)
Depth to Free Water in Pit:	<u>>18</u> (in)		Oxidized Root Channels Water-Stained Leaves
Depth to Saturated Soil:	> 18 (in)	_	Water-Stamed Leaves Local Soil Survey Data
		_	FAC-Neutral Test Other (explain in remarks)
Remarks: TOPOGRAPHIC DEPRE	(10122)		Onto (orphia manage)
Remarks. / O/OG/C	7 William 1 = 1.4		

Map Unit Name:	Map Unit Name:								
(Series and Phase): ELLI	OTT SILT L	Drainage Class SPD							
Taxonomy (Subgroup) A QU	ic Areiude	Field Observations Confirm Mapped Type? Yes No							
Profile Description									
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Texture, Concretions, Abundance/Contrast Structure, etc.						
0-3	10YR 2/1								
3>18	5443	10YR6/8	MANY/PROMINENT CL						
	,								
Hydric Soil Indicators:									
Histosol Histic Epipedon Sulfidic Odor		Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List							
Aquic Moisture RegimeReducing Conditions		Listed on Natio	onal Hydric Soils List						
Gleyed or Low-Chroma	Colors	Other							
Remarks: FZ LOAMY GL	EYED MATRIX								
The same of the sa									
WETLAND DETERMINATION		1							
,	(Circle)		(Cirola)						
Hydrophytic Vegetation Prese		Į	(Circle)						
Wetland Hydrology Present	Yes N		ampling Point in a Wetland Yes No						
Hydric Soils Present	(Yes N	0							
Remarks:									

<u> </u>		(1307 C	OE WELIAM	d Delineation Man	1 .	· · · · · · · · · · · · · · · · · · ·		
Project/Site: Onyx Emer	ald Park I	<u> andfill</u>			Date:_	October 2	27, 2005	·····
Applicant/Owner: Onyx Waste Services				County	: <u>V</u>	Vaukesha	.	
Investigator: Jerry Kelly	, Rachel V	⁷ eltman			State:_	V	Visconsin	
Do normal circumstances ex	xist on thi	s site?	Ý	es) No	Comm	unity ID:_	JPLAND	
Is the site significantly dist	arbed (Aty	pical Situ	ation)? Y	es No	Transe	ct ID:		
Is the site a potential proble	m area?		Y	es (No)	Plot ID	: <u>W6-P</u>	3;W7	<u>-</u> P3
VEGETATION								
Plant Species	Stratum	% Cover	Indicator	Other Plant Species		Stratum	% Cover	Indicator
1. Glycine max				1. Pennesetum	glaucum	1-1	45	FACT
2. Taraxacum officinale			-	2. Poa prater	1515			FACT
3. Dancas carotor	<u></u>	20	UPL	3				
4				4				
5				5		<u></u>		
6		(, ,,, , , , , , , , , , , , , , , , , 		6				
7				7	····-			
8				8				
9				9				
Percent of Dominant Species that (excluding FAC-).	are OBL, F	ACW, or FA	vC					
Remarks:								
HYDROLOGY								
Recorded Data (Desc				Wetland H Primary In	ydrology II	ndicators		
Stream, Lak		Gauge		Primary in	Inu	ndated		
Other No Recorded Data A	wailahla			-		ırated in Up ter Marks	oper 12 inches	3
No Recorded Data A	valiable					ft Lines		
Field Observations:				_		iment Depo		da
Depth of Surface Wa	ater:			in) Secondary	Indicators	(2 or more		цэ
Depth to Free Water in Pit: \(\sime\) \(\sime\) (in)				in) —		dized Root ter-Stained		
Depth to Saturated Soil: > /8 (in)			in) —		ter-Stained al Soil Sur			
				_		C-Neutral T	est in remarks)	
Remarks:					Out.	or Conpiani	11 I VIII III III	<u></u>
Achians.								

Map Unit l	Name:						
(Series and Phase): ELLIOTT SILT LOAM				Drainage Class	SPD		
	Taxonomy (Subgroup) A QUIC ARGIUDOLLS				Field Observations Confirm Mapped Type? Yes (No.)		
Profile Des	scription					January V.	
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	entration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0-3		10YR 4/3		Allegan		51L	
3/18		10YR3/3		بعادي		511_	
	A STATE OF THE STA						
H S A R	listosol listic Epipedon ulfidic Odor .quic Moisture Regime .educing Conditions ileyed or Low-Chroma C	dolors	H	rganic Streamsted on Loca	Content in Surface Layer king in Sandy Soils al Hydric Soils List ional Hydric Soils List	in Sandy Soil	
Remarks:							
						•	
WETLA	ND DETERMINATION	DN .					
		(Circle)				
Hydroph	ytic Vegetation Presen	t Yes	(No)			(Circle)	
Wetland	Hydrology Present	Yes	(No	Is This Sa	ampling Point in a We	tland Yes No	
Hydric S	oils Present	Yes	<u>(v)</u>			<u> </u>	
Remarks	•						

		(1907 C	TE MEHIN	Denneation Manu	(41)		
Project/Site: Onyx Emer	ald Park I	andfill			Date: October 2	27, 2005	
Applicant/Owner: On	yx Waste	Services			County: V	Vaukesha	
Investigator: <u>Jerry Kelly</u>	, Rachel V	eltman			State: V	Visconsin	
Do normal circumstances e	xist on thi	s site?	(Ŷe	s) No	Community ID:	WETLAND	7
Is the site significantly dist	urbed (Aty	pical Situ	ation)? (Ye	Nowetland	Transect ID:		
Is the site a potential proble	em area?		Ye	es No	Plot ID: <u>いつ</u>	- P1	
VEGETATION		**************************************					
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. Glycine max	<u>H</u>	40	UPL	1. Phalaris aruna	linacea H	10	FACW+
2. Scirpus Puviatilis	<u>H</u>	20	OBL	2. Rumex crisp			FAC+
3. Cyperus esculentus	<u> </u>	20	FACW	3. Taraxacum d			FACU
4				4. Ambrosia Ti	ifida H		FACT
5				5. Dancus care			UPL
6				6. Pennosetum	glaucum H	-5	FACT
7				7			
8				8		<u></u>	
9			Section Control of the Control of th	9			
Percent of Dominant Species that		ACW, or FA	λC ·				
(excluding FAC-). (67)	<u> </u>		····				
Remarks:							
IIVDROLOGV							
HYDROLOGY Recorded Data (Des	cribe in Rer	narks)		Wetland Hy	drology Indicators		
Stream, Lal	ce, or Tide			Primary Ind	icators Inundated		
X Aerial Phot Other	ograpns				Saturated in U	pper 12 inches	3
No Recorded Data A	vailable				Water Marks	• •	
	····				Drift Lines Sediment Depo	neite	
Field Observations:			^		Drainage Patte	rns in Wetlan	ds
Depth of Surface W			C I 🕫	· · ·	ndicators (2 or more Oxidized Root		
Depth to Free Water in Pit: > 18 (in)					Water-Stained		
Depth to Saturated S	Soil:		/ 6 (i	n)	Local Soil Sur K FAC-Neutral		
					Other (explain		
Remarks: TOPOGRAPI	tic Di	EPRESS	101				
1!							

Map Unit Name:									
(Series and	Phase): ELLIO	TT SICT L		Drainage Class SPD					
Taxonomy (Subgroup) A QUIC A RGIUDOLLS				Field Observations Confirm Mapped Type	e? (Yes) No				
Profile Description									
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concer Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.			
0-8		2.5/5/2				SICL			
8>18		10YR 2/1		-		SICL			
									
									
HiHiAcRe	Indicators: stosol stic Epipedon lfidic Odor quic Moisture Regime ducing Conditions eyed or Low-Chroma (Colors	Hi Or K Lis	ganic Streal sted on Loca sted on Nati	Content in Surface Layer king in Sandy Soils al Hydric Soils List onal Hydric Soils List	in Sandy Soil			
Remarks: P Coティ	All DEPLET LE FITS ASS	ed berom dy	1RK 50	URFACE NCLUSI	ONS.				
WETLAN	D DETERMINATION	ON			•				
		(Circle)							
Hydrophy	tic Vegetation Preser	nt Yes N	ío 📗			(Circle)			
Wetland I	Hydrology Present	Yes N		Is This Sa	ampling Point in a Wet	tland (Yes) No			
Hydric So	ils Present	(Yes) N	Го						
Remarks:									

(1987 COE Wedand	Delineation (vianual)
Project/Site: Onyx Emerald Park Landfill	Date: October 27, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: Wisconsin
Do normal circumstances exist on this site? Yes	No Community ID: UPLAND
Is the site significantly disturbed (Atypical Situation)? Yes	No Transect ID:
Is the site a potential problem area? Yes	(No) Plot ID: <u>W7 - P Z</u>
VEGETATION	
Plant Species Stratum % Cover Indicator	Other Plant Species Stratum % Cover Indicator
1. Aster ericoides H 30 FACU-	1. Phalaris arundinacca H 10 FACW+
2. Hordeum jabatum H 20 FAC+	2
3. Taraxacum officirale H ZO FACU	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-). 33%	
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge	Wetland Hydrology Indicators Primary Indicators
X Aerial Photographs	Inundated
Other No Recorded Data Available	Saturated in Upper 12 inchesWater Marks
	Drift Lines Sediment Deposits
Field Observations: Depth of Surface Water:(in	Drainage Patterns in Wetlands
Depth of Surface Water(in	Oxidized Root Channels
Depth to Saturated Soil: > 18 (in	Water-Stained Leaves
	FAC-Neutral Test Other (explain in remarks)
Remarks:	Onto (onprom m romand)
,	•

SOILS Map Unit Name: (Series and Phase): MORLEY SILT LOAM ND Drainage Class TYPIC HAPLUDALES Field Observations Taxonomy (Subgroup) Confirm Mapped Type?(No **Profile Description** Texture, Concretions, Depth Matrix Color Concentration Concentration Structure, etc. (inches) Horizon Munsell Moist Color Abundance/Contrast 0-8 511 10YR 3/1 104R6/8 COMMON/PROMINENT 8>18 Hydric Soil Indicators: Concretions Histosol High Organic Content in Surface Layer in Sandy Soil Histic Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Aquic Moisture Regime Listed on National Hydric Soils List **Reducing Conditions** Gleyed or Low-Chroma Colors Other Remarks: WETLAND DETERMINATION (Circle) (Circle) Hydrophytic Vegetation Present Yes Is This Sampling Point in a Wetland Yes Yes Wetland Hydrology Present $/N_0$ Hydric Soils Present Yes Remarks:

Project/Site: Onyx Eme	erald Park			Domeaton 11111	Date:(October 2	26, 2005	
Applicant/Owner: Onyx Waste Services					County:_	V	Vaukesha	
Investigator: Jerry Kell							Visconsin	
Do normal circumstances	·		Ń	es No	Commun	nity ID:	JPLAND	
Is the site significantly dis				es (No)	1			
Is the site a potential problem) [es (No)			PI	
VEGETATION								
Plant Species	Stratum	% Cover	Indicator	Other Plant Species		Stratum	% Cover	Indicator
1. Poa pratensis	Н	90	FAC-	1. Solidago cama	adensis	1-1	5_	FACU
2				2. <u>Helianthus g</u> i	rossesen-ch	ius H		FACW-
3				3. Geum macroj	phyllum	<u> -</u>	<u><5</u>	FACWA
4				4 Solidago 91	gantea	1-4	< ځ ^م	FACW
5				s. Achillea mil	litolium	1-1	45	FACU
6				6. Fragaria vir	reinlama.	H	<u> <5</u>	FACT
7				7				
8				8				
9				9				
Percent of Dominant Species the (excluding FAC-).		FACW, or FA	AC .					
Remarks:								
HYDROLOGY								
Recorded Data (De-				Wetland H Primary Ind	ydrology Ind	licators		
X Aerial Pho	-	Gauge			Inund		10 1	
Other No Recorded Data	Available			_	Wate	r Marks	oper 12 inches	3
					Drift Sedin	Lines nent Depo	neite	
Field Observations:	Y		S	(:-)	Drain	iage Patte	rns in Wetlan	ds
Depth of Surface Water: Depth to Free Water in Pit: (in)			(in) Secondary (in) —		ized Root	Channels		
Depth to Saturated			157	(in) —		r-Stained I Soil Sur		
				` _	FAC-	-Neutral T	Cest	
Domontes					Otner	(explain	in remarks)	
Remarks:								

Map Unit Name:								
,	LEY SILT LOAM	Drainage Class	UD					
				oe? (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			SICH				
8>20	2.545/4			<u> </u>				

<u> </u>								
Hydric Soil Indicators: HistosolHistic EpipedonSulfidic OdorAquic Moisture RegimeReducing ConditionsGleyed or Low-Chroma	-	Organic Streal Listed on Loc	Content in Surface Layer king in Sandy Soils ral Hydric Soils List ional Hydric Soils List	r in Sandy Soil				
Remarks:				MACAGE MERCHANICAL PARTY.				
WETLAND DETERMINAT	ION	· · · · · · · · · · · · · · · · · · ·						
	(Circle)							
Hydrophytic Vegetation Pres	sent Yes 📉	<u>5</u>		(Circle)				
Wetland Hydrology Present	Yes N	Is This S	ampling Point in a We	tland Yes (No)				
Hydric Soils Present	Yes N	<u> </u>						
Remarks:								

(1907)	OE WEHAIIC	I Delineation Mann	T		
Project/Site: Onyx Emerald Park Landfill			Date: October 2	6, 2005	
Applicant/Owner: Onyx Waste Services	County: W	Vaukesha			
Investigator: <u>Jerry Kelly, Rachel Veltman</u>	State: W	Visconsin			
Do normal circumstances exist on this site?	(Ÿe	s No	Community ID:	JE TLAN	D
Is the site significantly disturbed (Atypical Sit			Transect ID:		
Is the site a potential problem area?	Ye	es No	Plot ID: W9-	-bs	_
VEGETATION					
Plant Species Stratum % Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. Phalaris arundinacea H 90	FACW+	1. Carex lacus	stris 14	10	OBL
2		2			
3		3			
4		4			
5		5			
6		6		-	
7		7			- , , , , , , , , , , , , , , , , , , ,
8		8			
9		9			<u></u>
Percent of Dominant Species that are OBL, FACW, or F	AC				.
(excluding FAC-).					
Avillates.					
HYDROLOGY					
Recorded Data (Describe in Remarks)		Wetland Hy	drology Indicators		
Stream, Lake, or Tide GaugeXAerial Photographs			Inundated	•••	
Other No Recorded Data Available			Saturated in Upper 12 inches Water Marks		
			Drift Lines	wite	
Field Observations:	ش		Sediment Depo Drainage Patte	rns in Wetlan	ds
Depth of Surface Water: Depth to Free Water in Pit:	n) Secondary I	Indicators (2 or moreOxidized Root	Channels		
Depth to Free Water in Pit: Depth to Saturated Soil:	n) —	Water-Stained Local Soil Surv	Leaves		
			FAC-Neutral T	Cest	
			Other (explain	ın remarks)	
Remarks:					

Map Unit N	ame:				
(Series and)	Phase): A SHKU	IM SILTY CL	Drainage Class	PD	
Тахопоту (Subgroup) TYPIC	: HAPLAQU	o <u>ll</u>	Field Observations Confirm Mapped Type	e? (Yes) No
Profile Desc	ription				
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8		10YR 2/1	45044		SICIL
8>18		10YR2/1		TIONS MANY/PROMIN	
	-				
Hydric Soil	Indicators:				
	stosol		Concretions		
	stic Epipedon Ifidic Odor			Content in Surface Layering in Sandy Soils	in Sandy Soil
Aq	uic Moisture Regime		Listed on Loca	l Hydric Soils List	
	ducing Conditions eyed or Low-Chroma (Listed on Natio	onal Hydric Soils List	
Remarks:	A 11 DEPLETE	D BELOW DUE	ek surpace		
WETLAN	D DETERMINATIO	ON .			
		(Circle)			
Hydrophyt	tic Vegetation Preser	man first to design .	,		(Circle)
	Iydrology Present	Yes No		mpling Point in a Wet	land (Yes) No
Hydric So		(Yes) No	,		
Remarks:					

			d Demention 11xam			
Project/Site: Onyx Emerald		Date: October 2				
Applicant/Owner: Onyx Waste Services				County: V	Vaukesha	
Investigator: <u>Jerry Kelly, R</u>	achel Veltman			State: V	Visconsin	
Do normal circumstances exis	t on this site?	<u>(Y</u>	es No	Community ID:_\	UPLANE	<u> </u>
Is the site significantly disturb	ed (Atypical Si	tuation)? Y	es No	Transect ID:		
Is the site a potential problem	area?	Y	es No	Plot ID: W9	A-PI	
VEGETATION						
	ratum % Cove		Other Plant Species	Stratum	% Cover	Indicator
1. Poa pratemsis	H 90	FAC-	1. Dancus care	ota H		UPL
2		<u> </u>	2. Aster pilos	us H	5	FACU+
3			3. Spartina per	eTimata_H	45	FACW+
4			4. Euthamiag	ciinata H raminifolia H	_<5_	EVCAN-
5			5			
6			6			
7			7		·····	
8			8			
9			9		***********	
Percent of Dominant Species that are	OBL, FACW, or l	FAC				
(excluding FAC-).						
Remarks:						
INDROLOGY						
Recorded Data (Describe Stream, Lake, and Arrial Photogram Other No Recorded Data Available No Recorded Data No Recorded Data Available No Recorded Data Available No Recorded Data No Recorded Data Available No Recorded Data No Recorded Data Available No Recorded D	or Tide Gauge aphs		Wetland Hy Primary Ind	vdrology Indicators licatorsInundatedSaturated in UpWater MarksDrift Lines	oper 12 inche	s
Field Observations:				Sediment Depo Drainage Patte		da
Depth of Surface Water			in) Secondary	Indicators (2 or more	required)	us
Depth to Free Water in	Pit:	<u>> 18</u> (in) —	Oxidized Root Water-Stained		
Depth to Saturated Soil	:) / 8	in)	Local Soil Sur FAC-Neutral T	•	
				Other (explain		
Remarks:						

SOILS Map Unit Name: (Series and Phase): MONTGOMERY SILTY CLAY LOAM 29D Drainage Class TYPIC HAPLAQUOLLS Field Observations Taxonomy (Subgroup) Confirm Mapped Type? No **Profile Description** Concentration Texture, Concretions, Matrix Color Concentration Depth Abundance/Contrast Structure, etc. Horizon Munsell Moist Color (inches) 511 0-6 51CL 6718 Hydric Soil Indicators: Concretions Histosol High Organic Content in Surface Layer in Sandy Soil Histic Epipedon Organic Streaking in Sandy Soils Sulfidic Odor Listed on Local Hydric Soils List Aquic Moisture Regime Listed on National Hydric Soils List Reducing Conditions Gleyed or Low-Chroma Colors Other BELOW DARK SURFACE Remarks: A 11 DEPLETED WETLAND DETERMINATION (Circle) (Circle) Ńο, Hydrophytic Vegetation Present Yes No) Is This Sampling Point in a Wetland Yes Wetland Hydrology Present Yes Yes) No Hydric Soils Present Remarks:

Project/Site: Onyx Emerald Park Landfill	Date: October 26, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: Jerry Kelly, Rachel Veltman	State: Wisconsin
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:
	Plot ID: <u>W9A-P2-</u>
No title date at personal processing process	
VEGETATION Plant Species Stratum % Cover Indicator Other Plant	Species Stratum % Cover Indicator
Plant Species Stratum % Cover Indicator Other Plant 1. Phalaris arundinucea - 100 FACW-+ 1. Carex	
1. Phalaris arundirucea ri 100 Frevo 1. Culton	290 gigantea H <5 FACW
J	
7	
V	
8 8	
9 9	
Percent of Dominant Species that are OBL, FACW, or FAC	
(excluding FAC-).) ひ つ り。	
Remarks.	
HYDROLOGY	
Recorded Data (Describe in Remarks) W	etland Hydrology Indicators
Onomi, Edito, or xide oneg-	imary Indicators Inundated
X Aerial Photographs Other	Saturated in Upper 12 inches
No Recorded Data Available	Water Marks Drift Lines
Field Observations:	Sediment Deposits
	Drainage Patterns in Wetlands econdary Indicators (2 or more required)
Depth of Surface Water: Depth to Free Water in Pit: (in)	Oxidized Root Channels
Depth to Free Water in Fit. Depth to Saturated Soil: (in)	Water-Stained Leaves Local Soil Survey Data
Depth to Saturated Soft.	K FAC-Neutral Test
	Other (explain in remarks)
Remarks:	

SOILS				
Map Unit Name:				
(Series and Phase): MONT		Drainage Class	D D	
Taxonomy (Subgroup)	Taxonomy (Subgroup) TYPIC HAPLAGOOLLS			e? (Yes) No
Profile Description				•
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18	10X65/1	-	gama,	SICL
	-			
Hydric Soil Indicators:				
Histosol	_	Concretions		
Histic Epipedon Sulfidic Odor	_		Content in Surface Layer king in Sandy Soils	in Sandy Soil
Aquic Moisture Regin	ne _	∠Listed on Loc	al Hydric Soils List	
Reducing Conditions Gleyed or Low-Chron	na Colors _	Listed on Nat Other	ional Hydric Soils List	
		** C n C**		
Remarks: A 12 THIC	he DVBK and	-VCS		
WETLAND DETERMINA	TION			
	(Circle)			
Hydrophytic Vegetation Pre	esent (Yes) N	4o		(Circle)
Wetland Hydrology Present	Yes N	No Is This S	ampling Point in a Wet	land (Yes) No
Hydric Soils Present	(Yes) 1	√ 0		
Remarks:				

<u> </u>			JE Welling	Delineation			20005	
Project/Site: Onyx Emer	ald Park I	andfill			-	Date: October 2		
Applicant/Owner: Onyx Waste Services				County: Waukesha				
Investigator: <u>Jerry Kelly, Rachel Veltman</u>					State: V	Visconsin		
Do normal circumstances ex	cist on thi	s site?		s) No		Community ID: \(\lambda\)		
Is the site significantly dist	irbed (Aty	pical Situ	ation)? Ye	es (No)		Transect ID:	C) (")	
Is the site a potential problem area? Yes No						Plot ID: W?	- P.S	
VEGETATION					·	· · · · · · · · · · · · · · · · · · ·		
Plant Species	Stratum	% Cover	Indicator	Other Plant Sp	ecies	Stratum	% Cover	Indicator
1. Solidago canadensis	1-1		FACU			ta 1+		UPL
2. Merilotus alba	-1	30	FACU	2. Euthern	ia are	amintfolia H	<u> </u>	FACW-
3. Ambrosia trifida	1-1	20	FACT	3				
4. Cirsium arvense	_H	20	FACU	4				
5				5				
6				6			 	<u></u>
7				7	<u></u>			<u> </u>
8				8	· · · · · · · · · · · · · · · · · · ·			
9				9				
Percent of Dominant Species that (excluding FAC-).	are OBL, F	ACW, or FA	AC .					
Remarks:				.	·		<u> </u>	
								·
HYDROLOGY								
Recorded Data (Desc						drology Indicators		
Stream, Lak		Gauge		Prin	Primary Indicators Inundated			
Other					Saturated in Upper 12 inches			
No Recorded Data A	vailable				-	Water Marks Drift Lines		
Field Observations:						Sediment Depo		
Field Observations:				(n)		Drainage Patte Indicators (2 or more		ıds
Depth of Surface Water: (in)				ondary I	Oxidized Root			
Doparto 1 too trator at 1 to			·	Water-Stained Leaves				
Depth to Saturated Soil: //8 (in)			^{m)}	Local Soil Survey Data FAC-Neutral Test				
						Other (explain		····
Remarks:								

SOILS Map Unit Name: BO (Series and Phase): MONTGOMERY SILTY CLAY LOAM Drainage Class TYPIC HAPLAQUOLLS Field Observations Taxonomy (Subgroup) No Confirm Mapped Type? Yes **Profile Description** Concentration Texture, Concretions, Concentration Matrix Color Depth Abundance/Contrast Structure, etc. Munsell Moist Color (inches) Horizon 0-8 OYRZH 514 S1L. 8>18 Hydric Soil Indicators: Histosol Concretions High Organic Content in Surface Layer in Sandy Soil Histic Epipedon Organic Streaking in Sandy Soils Sulfidic Odor Listed on Local Hydric Soils List Aquic Moisture Regime

(Circle)		
Yes No		(Circle)
Yes (No)	Is This Sampling Point in a Wetland	Yes No
Yes (No)	,	
	Yes No	Yes No Is This Sampling Point in a Wetland

(47.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	T T
Project/Site: Onyx Emerald Park Landfill	Date: October 27, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: Jerry Kelly, Rachel Veltman	State: Wisconsin
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:
Is the site a potential problem area? Yes No	Plot ID: W9 - P4
VEGETATION	
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator
1. Pholaris arundinacea H 80 FACW+ 1.	
2. Helianthus grosseserratus H 20 FACW-2.	
3, 3	
4 4	
5 5,	
б б	
7 7	
8 8	
9 9	
Percent of Dominant Species that are OBL, FACW, or FAC	
(excluding FAC-).) ひつつつん	
remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Wetland	Hydrology Indicators Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines
Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Compared to Secondary Compared to Secondary	Sediment Deposits Drainage Patterns in Wetlands ry Indicators (2 or more required) Oxidized Root Channels Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (explain in remarks)
Remarks:	

Map Unit Name:			_	3 4.			
(Series and Phase): MONTGO	YTHE KABME	CLAY LOAM	Drainage Class	12			
Taxonomy (Subgroup) TYP10	- HAPLAQUOI	Field Observations Confirm Mapped Type?	Yes (No)				
Profile Description							
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color		ture, Concretions, acture, etc.			
0-4	10YR2/1			514			
4>18	56Y6/1	10YR6/8	COMMON/PROMINENT	SICL			
		·					
			· · · · · · · · · · · · · · · · · · ·				
		•					
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List							
Remarks: F 2 LoAMY	GLEYED MAT	XIST					
Total Inc.	•						
WETLAND DETERMINATI	WETLAND DETERMINATION						
	(Circle)			(0) 1)			
Hydrophytic Vegetation Prese	manufacture.	l l		(Circle)			
Wetland Hydrology Present	Yes N		Sampling Point in a Wetland	(Yes) No			
Hydric Soils Present	(Yes/ N	0					
Remarks:							

		(1987 CC	JE Wettan	d Delineation Man	1211)		
Project/Site: Onyx Eme	rald Park	<u>Landfill</u>			Date: October 2	7, 2005	
Applicant/Owner: Onyx Waste Services			County: W	Vaukesha			
Investigator: Jerry Kelly, Rachel Veltman			State: Wisconsin				
Do normal circumstances	exist on th	is site?	Ϋ́	es No	Community ID:	UPLAND)
Is the site significantly dis	turbed (At	ypical Situ	ation)? Y	es (No)	Transect ID:		
Is the site a potential probl			Y	es No	Plot ID: W9	-PS	
VEGETATION							
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. Glycine max	h-1	100	UPLL	1. Taraxacum c	officinale H	45	FACU
2				2. Dancus care	sta H	45	UPL
3				3			
4				4			
5				5			
6				6,			
	7						
8							
9				9			
Percent of Dominant Species th	at are OBL, I	FACW, or FA	AC				
(excluding FAC-).	<u> </u>						
Remarks:							
HYDROLOGY				Watland U	ydrology Indicators		·
Recorded Data (De	scribe in Ke ake, or Tide			Primary Inc			
X Aerial Pho		Cuago			Inundated		
Other	- .				Saturated in Upper 12 inches		
No Recorded Data	Available			-	Water Marks Drift Lines		
	· 				Sediment Depo	osits	
Field Observations:			<i>/</i> *,¬		Drainage Patte	rns in Wetlar	ıds
Depth of Surface V	Vater:			in) Secondary	Indicators (2 or more		
Depth to Free Water in Pit: \(\sime\) \(\sime\) (in)			in) —	Oxidized Root Water-Stained			
Depth to Saturated	Soil:		> 18	in) –	Local Soil Sur		
Depth to Saturated Son.				FAC-Neutral Test			
					Other (explain	in remarks)	
Remarks:					_		

Map Unit N	Jame:						
(Series and	Phase): MONTGO	MERY SILTY C	THM FOUN	Drainage Class	<u>P0</u>		
Taxonomy	Taxonomy (Subgroup) TYPIC HAPLAQUOLLS			Field Observations Confirm Mapped Typ	Field Observations Confirm Mapped Type? (Yes) No		
Profile Des	Profile Description						
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-14		10YR 3/1	ales trans		514		
14>18		2.5/6/2		garrifilm,	SICL		
	· · ·						
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
ļ ———	. , , , , , , , , , , , , , , , , , , ,	-					
		<u> </u>					
Hydric Soi	l Indicators:						
H Sı A	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other						
Remarks:	A12 THICK	< DARK SUR	FACE				
WETLAN	ND DETERMINATION	∩NI	<u> </u>				
VVL 1L/V	AD DETERMINATION	(Circle)					
Hydrophytic Vegetation Present Yes No (Circle)							
	Hydrology Present	Yes (No	1	ampling Point in a We	tland Yes No		
	oils Present	Yes No	<u> </u>				
Remarks:							
1							

Project/Site: Onyx Emerald Park Landfill					Date: October 27, 2005		
Applicant/Owner: Onyx Waste Services					County: Waukesha		
Investigator: <u>Jerry Kelly, Rachel Veltman</u>					State: Wisconsin		
Do normal circumstances exist on this site? Yes No					Community ID: WETLAND		
Is the site significantly dis	turbed (Aty	pical Situ	ation)? Ye	es No	Transect ID:		
Is the site a potential problem area? Yes (No)					Plot ID: <u>W9 - P6</u>		
VEGETATION							
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum % Cover Indicator		
1. Glycine max		100	UPL	1. Phalaris arun	ndinaeza H <u>45</u> FACWA		
2				2	·		
3				3			
4				4			
5			· 	5			
6				6			
7	·			7			
8				8			
9				9			
Percent of Dominant Species the (excluding FAC-).		ACW, or FA	AC .				
Remarks: FARMED W	er tor	× **	Chr Ars	GIETIAND S	PECIES		
KOMED W) RT LAN	1) ; WE	EDO MAC	02/0/10/5	ا من من المن المن المن المن المن المن ال		
HYDROLOGY							
Recorded Data (De				Wetland Hy Primary Ind	vdrology Indicators		
X Aerial Pho	ike, or Tide tographs	Gauge		- I Illiai y mo	Inundated		
Other No Recorded Data	Available				Saturated in Upper 12 inchesWater Marks		
					Drift Lines		
Field Observations:	_		~ >	_	Sediment DepositsDrainage Patterns in Wetlands		
Depth of Surface W			. ``	n) Secondary I	Indicators (2 or more required) Oxidized Root Channels		
Depth to Free Water Depth to Saturated				n)	Water-Stained Leaves Cocal Soil Survey Data		
2 op in to suitation		••••••			FAC-Neutral Test		
D					Other (explain in remarks)		
Remarks:							

SOILS						
Map Unit Name:						
(Series and Phase): いらく	EGO MUCH	<		Drainage Class	VPD	
Taxonomy (Subgroup) Limmic Medisaprists			-	Field Observations Confirm Mapped Type? (Yes) No		
Profile Description						
Depth (inches) Horizon	Matrix Color Munsell Moist	Concer Color	itration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0>12	N 2.5/0	-	حمير	d)m.m.	MUCK	
Hydric Soil Indicators:						
Histosol	Mistosol Concretions High Organic Content in Surface Layer in Sandy Soil Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List					
Remarks: A 1 HISTOSOL						
WETLAND DETERMINATI	ON					
	(Circle)					
Hydrophytic Vegetation Prese		No			(Circle)	
Wetland Hydrology Present	⟨Yes⟩ 1	No	Is This Sa	mpling Point in a We	tland Yes No	
Hydric Soils Present	(Yes) 1	No				
Remarks: ACTIVELY FARMED WETLAND						

	(1987 COE Weilalli	a Delineation Manu	au				
Project/Site: Onyx Emerald Park L	andfill		Date: October 25, 2005				
Applicant/Owner: Onyx Waste S	Services		County:Waukesha				
Investigator: <u>Jerry Kelly, Rachel V</u>	eltman	<u> </u>	State: Wisconsin				
Do normal circumstances exist on this	site? (Ý	s No	Community ID: UPCAND				
Is the site significantly disturbed (Aty	pical Situation)? Ye	es (No)	Transect ID:				
Is the site a potential problem area?	Plot ID: WIO-PI						
VEGETATION							
Plant Species Stratum	% Cover Indicator	Other Plant Species	Stratum % Cover Indicator				
1. Triticum aestivum H	90 UPL	1. Glycine me	LX H S UPL				
2		2. Taraxacum of	Ficinale H 5 FACU				
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-). (5 %							
Remarks:							
HYDROLOGY							
Recorded Data (Describe in Ren	narks)	Wetland Hy	drology Indicators				
Stream, Lake, or Tide (X Aerial Photographs	Jauge	Primary Ind	icators Inundated				
Other			Saturated in Upper 12 inches				
No Recorded Data Available		_	Water Marks Drift Lines				
Field Observations:			Sediment Deposits Drainage Patterns in Wetlands				
Depth of Surface Water:		in) Secondary I	indicators (2 or more required)				
Depth to Free Water in Pit:	` .0	in)	Oxidized Root Channels Water-Stained Leaves				
Depth to Saturated Soil:	<u> </u>	in)	Local Soil Survey Data FAC-Neutral Test				
			Other (explain in remarks)				
Remarks:							

SOILS	`						
Map Unit Name:	Map Unit Name:						
(Series and Phase): Moure	SOMERY SILTY	CLAY LOAM	Drainage Class	<u> </u>			
Taxonomy (Subgroup) TYP	IC HAPLAQ	Field Observations Confirm Mapped Type? (Yes) No					
Profile Description				- Garu			
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.			
0>18	10YR7/1	- 144,04	graph .	516_			
·			***************************************				
Hydric Soil Indicators:	p		-				
Reducing Conditions	Histosol Concretions Histic Epipedon High Organic Content in Surface Layer in Sandy Soil Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime X Listed on Local Hydric Soils List						
Remarks: A12 THEK	Remarks: A12 THICK DARK SURFACE						
WETLAND DETERMINATI	ION						
AAT I TUAD DE LEI MAIN O'CL	(Circle)						
Hydrophytic Vegetation Prese	` '	No)		(Circle)			
Wetland Hydrology Present	~~	No Is This San	mpling Point in a Wet	land Yes (No)			
Hydric Soils Present	(Yes) N	No					
Remarks:							

Project/Site: Onyx Emerald Park Landfill		Date: October 25, 2005	
Applicant/Owner: Onyx Waste Services		County: Waukesha	_
Investigator: <u>Jerry Kelly, Rachel Veltman</u>		State: Wisconsin	_
Do normal circumstances exist on this site? Is the site significantly disturbed (Atypical Situation Is the site a potential problem area?	Yes No Yes No Yes No	Community ID: WETLAND Transect ID: Plot ID: WIO-F-2	
VEGETATION			
Plant Species Stratum % Cover Ind	cator Other Plant Species	Stratum % Cover I	ndicator
1. Phalamis arundinasea. 1-1 100 F 2	2		
HYDROLOGY Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge X Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	Primary Ind	ydrology Indicators flicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Indicators (2 or more required) Oxidized Root Channels Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (explain in remarks)	
Remarks:			

Map Unit Name:	·						
(Series and Phase): N	10NTGOMERY SILT	Y CLIX WAM	Drainage Class	PD			
Taxonomy (Subgroup)			Field Observations Confirm Mapped Type	o? (Yes) No			
Profile Description							
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.			
0-16	10YP 2/1	ar portu	No observation to	51C. L.			
16>18	N 4/0	***************************************	gg ard s.	Com love			
		······································	<u></u>				
		<u> </u>					
				-			
Hydric Soil Indicators	:						
Histosol Histic Epiped Sulfidic Odor Aquic Moistu Reducing Cor X Gleyed or Lo	r re Regime nditions	Organic Streak Listed on Loca	Content in Surface Layer ing in Sandy Soils I Hydric Soils List onal Hydric Soils List	in Sandy Soil			
Remarks: AIZ-	THICK DARK SURF	ACE.					
	·						
WETLAND DETE	RMINATION						
	(Circle)						
Hydrophytic Vegeta	ation Present Yes 1	No		(Circle)			
Wetland Hydrology	Present Yes 1	No Is This Sa	mpling Point in a Wetl	land (Yes) No			
Hydric Soils Presen	it (Yes) 1	No					
Remarks:							

(1987 COE Wettand Defineation	Transacty					
Project/Site: Onyx Emerald Park Landfill	Date: October 28, 2005					
Applicant/Owner: Onyx Waste Services	County: Waukesha					
Investigator: <u>Jerry Kelly, Allison Oberc</u>	State: Wisconsin					
Do normal circumstances exist on this site? Yes No	Community ID: UPLAND					
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:					
Is the site a potential problem area? Yes No	Plot ID: W10-P3					
VEGETATION						
Plant Species Stratum % Cover Indicator Other Plant Sp	pecies Stratum % Cover Indicator					
	e max H 5 UPC					
2 2. Planto.	go major H <5 FAC+					
3. <u>Jaraxa</u>	cum officinale H 45 FACU					
4 4						
5 5						
6 6						
7 7						
8 8	<u> </u>					
9 9						
Percent of Dominant Species that are OBL, FACW, or FAC						
(excluding FAC-).						
Remarks.						
HYDROLOGY						
Recorded Data (Describe in Remarks) Wet	land Hydrology Indicators					
Stream, Lake, or Tide Gauge Prim X Aerial Photographs	nary IndicatorsInundated					
Other No Recorded Data Available	Saturated in Upper 12 inches Water Marks					
No Recorded Data Available	Drift Lines					
Field Observations:	Sediment DepositsDrainage Patterns in Wetlands					
	ondary Indicators (2 or more required)					
Depth to Free Water in Pit:	Oxidized Root Channels Water-Stained Leaves					
Depth to Saturated Soil: (in)	Local Soil Survey Data FAC-Neutral Test					
	Other (explain in remarks)					
Remarks:	Remarks:					

Map Unit Name:					
(Series and Phase): MONTGOMERY SILTY CLAY LOAM			Drainage ClassPD		
Taxonomy (Subgroup) TYP			Field Observations Confirm Mapped Type? (Yes)	No	
Profile Description			- Company		
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Texture, Abundance/Contrast Structure	Concretions, e, etc.	
0-8	10YR3/1	pagamar		CL	
8>18	<u>545/2</u>	10YR 6/8	COMMON/PROMINENT SI	cc	
			handa da baba		
		· · · · · · · · · · · · · · · · · · ·			
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other				Soil	
Remarks: All DEPLETED BELOW DARK SURFACE					
WETLAND DETERMINATION	ON				
	(Circle)				
Hydrophytic Vegetation Prese	ent Yes No	چ ا	((Circle)	
Wetland Hydrology Present	Yes (No	Is This Sa	mpling Point in a Wetland	Yes No	
Hydric Soils Present	(Yes) No	0			
Remarks:					

Project/Site: Onyx Emerald Park Landfill	0.1.00.0005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin
Do normal circumstances exist on this site? Yes N	To Community ID: WETLAND
Is the site significantly disturbed (Atypical Situation)? Yes (Transect ID:
Is the site a potential problem area? Yes	Plot ID: W10-P4
VEGETATION	
Plant Species Stratum % Cover Indicator Other	Plant Species Stratum % Cover Indicator
1. Phalaris arundinacea H 100 FACW+ 1. He	lionthus grosseserratus H CS FACW-
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-). (CC %)	
Remarks.	
HYDROLOGY	
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge X Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators Primary Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines
Field Observations:	Sediment Deposits Drainage Patterns in Wetlands
Depth of Surface Water: (in)	Secondary Indicators (2 or more required)
Depth to Free Water in Pit: $\frac{>18}{}$ (in)	Oxidized Root ChannelsWater-Stained Leaves
Depth to Saturated Soil:(in)	Local Soil Survey Data FAC-Neutral Test Other (explain in remarks)
Remarks:	

Map Unit l	Name:					
(Series and Phase): MONTGOMERY SILTY CLAY LOAM			Drainage Class	PD		
Taxonomy	(Subgroup) TYPIC	- HAPLAQUOL	<u>.us</u>		Field Observations Confirm Mapped Type? (Yes) No	
Profile Des	<u>scription</u>					
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contra	Texture, Concretions, st Structure, etc.	
0>18		10YR 2/1	4,78474-		SICL	
			g			
					-	
	il Indicators:				***************************************	
Histosol Concretions Histic Epipedon High Organic Content in Surface Layer in Sandy Soil Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other						
Remarks: A12 THICK DARK SURFACE						
WETLAI	ND DETERMINATI	ON				
	(Circle)					
Hydroph	ytic Vegetation Prese	ent Yes N	lo		(Circle)	
Wetland	Hydrology Present	~~~~	Io Is Thi	is Sampling Point in a V	Wetland Yes No	
Hydric S	Hydric Soils Present (Yes) No					
Remarks:						

(1967 COE Wettand Denneation 141					
Project/Site: Onyx Emerald Park Landfill	Date: October 28, 2005				
Applicant/Owner: Onyx Waste Services	County: Waukesha				
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin				
Do normal circumstances exist on this site? Yes No	Community ID: UPLAND				
Is the site significantly disturbed (Atypical Situation)? Yes (No	Transect ID:				
Is the site a potential problem area? Yes No	Plot ID: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
VEGETATION					
Plant Species Stratum % Cover Indicator Other Plant Species	es Stratum % Cover Indicator				
	max H 5 UPL				
	arvensis H 65 FAC-				
3. Taraxacur	n officinale H <5 FACU				
4 4					
5 5					
6 6					
7 7					
8 8					
9 9					
Percent of Dominant Species that are OBL, FACW, or FAC					
(excluding FAC-).					
Remarks:					
HYDROLOGY					
	l Hydrology Indicators				
Stream, Lake, or Tide Gauge Primary	Indicators Inundated				
X Aerial Photographs Other	Saturated in Upper 12 inches				
No Recorded Data Available	Water Marks Drift Lines				
Field Observations:	Sediment Deposits				
05	Drainage Patterns in Wetlands ary Indicators (2 or more required)				
Depth to Free Water in Pit: \(\sum_{\text{l}} \) (in)	Oxidized Root Channels				
Depth to Saturated Soil:(in)	Water-Stained LeavesLocal Soil Survey Data				
	FAC-Neutral TestOther (explain in remarks)				
Remarks:					

Map Unit Name:					
(Series and Phase): MARTINTON SILT LOAM			Drainage Class	SPD	
Taxonomy (Subgroup) AQUI	C A REIVDOL	5	Field Observations Confirm Mapped Type	e? (Yes No	
Profile Description					
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0-5	10YR 2/1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000	<u> </u>	
5>18	10YR3/2	,erre		514	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other			in Sandy Soil		
Remarks:					
WETLAND DETERMINATION	ON				
	(Circle)				
Hydrophytic Vegetation Preser	nt Yes No	δ		(Circle)	
Wetland Hydrology Present	Yes (No		mpling Point in a Wet	tland Yes (No)	
Hydric Soils Present	Yes (No	ò			
Remarks:					

Project/Site: Onyx Emer	ald Park			1 Dollmonton 1 201	Date: October 2	28, 2005	
Applicant/Owner: Onyx Waste Services			County: Waukesha				
Investigator: Jerry Kelly, Allison Oberc			State: Wisconsin				
Do normal circumstances ex			(Ŷe	No No	Community ID:		
Is the site significantly dist			THEORY	"handered	Transect ID:		
Is the site a potential proble		Abteat pite	Ye	Andrees (Plot ID: U) I C		
VEGETATION	III ai Ca i			10 (TIM)	TIOU ID.		
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. Phaloris arundinacea						···	
2				2			
3							
4				4			
5				5			
6							
7				7			
8				8			
9							
Percent of Dominant Species that are OBL, FACW, or FAC							
(excluding FAC-).) こう	7,						
Remarks:							
HYDROLOGYRecorded Data (Desc	rihe in Re	marks)		Wetland H	ydrology Indicators	<u>,</u>	
Stream, Lak	e, or Tide			Primary Inc			
X Aerial Photo	graphs				Inundated Saturated in U	pper 12 inche	s
No Recorded Data A	vailable			-	Water Marks Drift Lines		
wi 1101					Drift LinesSediment Depo	osits	
Field Observations:	. 4		ලා ය	n) Secondary	Drainage Patte	rns in Wetlan	ıds
Depth of Surface Wa			· . 0	5000=====,	Indicators (2 or more Oxidized Root		
Depth to Free Water		$\frac{\cdot}{\cdot}$	· 😙	n) —	Water-Stained	Leaves	
Depth to Saturated S	OII:		, ~ (T	in)	Local Soil Sur		
					Other (explain		
Remarks:							
					•		

N

	ROUTINE WETLAND DETERMINAT (1987 COE Wetland Delineation Manu			
SOILS				
Map Unit Name:				
(Series and Phase): MONTGOME	RY SILTY CLAY LOAM	Drainage Cl		

Map Unit N	ame:					
(Series and Phase): MONTGOMERY SILTY CLAY LOAM			Drainage Class	PD		
Taxonomy (Taxonomy (Subgroup) TYPIC HAPLAQUOLLS		Field Observations Confirm Mapped Type	e? (Yes) No		
Profile Desc	ription					***
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10YR 2/1	-		s constr.	SICL
	<u> </u>		Mortunes more			

Hydric Soil	Hydric Soil Indicators:					
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other						
Remarks: A12-THICK DARK SURFACE						
WETLAND DETERMINATION						
	(Circle)					
Hydrophy	tic Vegetation Prese	•				(Circle)
il	Iydrology Present	(Yes)	No	Is This Sa	mpling Point in a Wet	land (Yes) No
Hydric So	ils Present	" Mariana d	No			
Remarks:						

(1767 COE WEIGHTE DEMINISTRATION INC.			
Project/Site: Onyx Emerald Park Landfill	Date: October 28, 2005		
Applicant/Owner: Onyx Waste Services	County: Waukesha		
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin		
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND		
Is the site significantly disturbed (Atypical Situation)? Yes (No)	Transect ID:		
Is the site a potential problem area? Yes No	Plot ID: W10-P7		
VEGETATION			
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator		
1. Phalaris arundinacea H 100 FACW+1.			
2 2			
3 3			
4 4			
6 6			
7 7			
8 8			
9 9			
Percent of Dominant Species that are OBL, FACW, or FAC			
(excluding FAC-).			
Remarks:			
THE POLICE IN TH			
	Hydrology Indicators Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines		
Field Observations:	Sediment DepositsDrainage Patterns in Wetlands		
Depth of Surface Water: (in) Secondary	y Indicators (2 or more required)		
Depth to Free Water in Pit: > 18 (in)	Oxidized Root Channels Water-Stained Leaves		
Depth to Saturated Soil:			
Remarks:			

SOILS Map Unit Name: PD MONTGOMERY SILTY CLAY LOAM Drainage Class (Series and Phase): TYPIC HAPLAQUOLLS Field Observations Taxonomy (Subgroup)_ Confirm Mapped Type? (No **Profile Description** Texture, Concretions, Depth Matrix Color Concentration Concentration (inches) Horizon Munsell Moist Color Abundance/Contrast Structure, etc. 10YR 2/ SICL 0>18 Hydric Soil Indicators: Concretions Histosol High Organic Content in Surface Layer in Sandy Soil Histic Epipedon Organic Streaking in Sandy Soils Sulfidic Odor Listed on Local Hydric Soils List Aquic Moisture Regime Listed on National Hydric Soils List Reducing Conditions Gleyed or Low-Chroma Colors Other A12- THICK DARK SURFACE Remarks: WETLAND DETERMINATION (Circle) (Circle) Hydrophytic Vegetation Present No Is This Sampling Point in a Wetland (Wetland Hydrology Present No (Yes) Hydric Soils Present No Remarks:

(1987 COE WELIAL	id Denneation (vianual)						
Project/Site: Onyx Emerald Park Landfill	Date: October 28, 2005						
Applicant/Owner: Onyx Waste Services	County: Waukesha						
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin						
Do normal circumstances exist on this site?	es No Community ID: UPLAND						
Is the site significantly disturbed (Atypical Situation)? Y	Transect ID:						
	Yes (No) Plot ID: 10-98						
VEGETATION							
Plant Species Stratum % Cover Indicator	Other Plant Species Stratum % Cover Indicator						
1.Triticum aestrum H 100 UPL	1. Glycine max H LS UPL						
2	2. Taraxacum officinale H KS FACU						
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-).							
Remarks:							
HYDROLOGY							
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge X Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators Primary Indicators Inundated Saturated in Upper 12 inches Water Marks Drift Lines						
Depth to Free Water in Pit:	Sediment DepositsDrainage Patterns in Wetlands (in) Secondary Indicators (2 or more required) (in) Oxidized Root Channels Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (explain in remarks)						
Remarks:							

Map Unit N	Name:						
(Series and	Phase): MATIN	ton sut lo	Drainage Class	<u> 500</u>			
Taxonomy (Subgroup) AQUIC ARGIUDOLLS					Field Observations Confirm Mapped Typ	pe? (Yes) No	
Profile Description							
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concer Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0-6		<u>10个尺3人</u>				<u> </u>	
6>18		104R3/3			Lents-	SIL	
	4450 HA 44 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	÷				<u> </u>		
Hydric Soi	l Indicators:						
H: 	istosol listic Epipedon ulfidic Odor quic Moisture Regime educing Conditions eleyed or Low-Chroma (Colors	Hig Or K Lis	ganic Streak ted on Loca ted on Natio	Content in Surface Laye ing in Sandy Soils I Hydric Soils List onal Hydric Soils List	r in Sandy Soil	
Remarks:							
WETLAN	ND DETERMINATIO	ON					
		(Circle)					
Hydrophy	ytic Vegetation Preser	nt Yes <u>N</u>	<u>و</u>			(Circle)	
Wetland 1	Hydrology Present	Yes (Ñ	<u> </u>	Is This Sa	mpling Point in a We	tland Yes No	
Hydric So	oils Present	Yes 🖄	<u></u>				
Remarks:	:						

		(1907 C	OF Menuni	Denmean	OW TAYUNU	arj			
Project/Site: Onyx Eme	rald Park	Landfill				Date:	October 2	28, 2005	····
Applicant/Owner: Onyx Waste Services					County:	<u>V</u>	<u>Vaukesha</u>		
Investigator: <u>Jerry Kelly, Allison Oberc</u>					State:	V	Visconsin		
Do normal circumstances e	xist on thi	is site?	(Ýe	s) No		Commu	nity ID: 🔽	JETLANI	<u>)</u>
Is the site significantly dist	urbed (At	ypical Situ	ation)? Ye	s (No)		Transec	t ID:		
Is the site a potential probl		•	Υe	s No		Plot ID:	WIC	>-P9	
VEGETATION				To read years.					
Plant Species	Stratum	% Cover	Indicator	Other Plant	Species		Stratum	% Cover	Indicator
1. Salix exigan	5	20	081	1.Solida	igo caria	densis	14	10	FACU
2. Cormus l'acernoja	5	9~6	EVCM-	2	4			,	
2. Cornus racernosa 3. Cornus stolonifera	5	30	FACW	3					
4. Poa pratensis	14	40	FAC-						
s. Phalaris arundinae	ea H	20	FACW	r ₅				**************************************	
6				6	···				
7				7					
8				8				 	
9		•		9					
Percent of Dominant Species that (excluding FAC-).	t are OBL, F	ACW, or FA	/C						
Remarks:			<u> </u>						
Remarks.									
HYDROLOGY									
Recorded Data (Des					etland Hy		dicators		
Stream, La X Aerial Pho		Gauge		Pi	Primary IndicatorsInundated				
Other	\				Saturated in Upper 12 inches Water Marks				
No Recorded Data A	Available						t Lines		
Field Observations:							ment Depo		.4
Depth of Surface W	ater:			n) s	econdary I			rns in Wetlan required)	us
Depth to Free Wate	r in Pit:		<u>> 18</u> (i			Oxic	dized Root	Channels	
Depth to Saturated :	Soil:		<u> </u>	n)			er-Stained al Soil Sur		
-			·			FAC	-Neutral T	?est	
						Oth	er (explain	in remarks)	
Remarks:									

Map Unit Name	e;		- marks		
(Series and Pha	ise): Monto	MERY SILTY C	Drainage Class	PP	
Taxonomy (Sul	Taxonomy (Subgroup) TYPIC HAPLAQUOLLS			Field Observations Confirm Mapped Type	e? Yes No
Profile Descrip	Profile Description				
Depth (inches) H	lorizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10187V	Modern	AND THE COLUMN TO THE COLUMN T	SICL
		_			
		Poly Territoria			
		-			
				<u></u>	
Hydric Soil Ind	licators:			·	
Histos			Concretions		
	Epipedon ic Odor	<u> </u>		Content in Surface Layer ting in Sandy Soils	in Sandy Soil
Aquic	Moisture Regime cing Conditions		Listed on Loca		
	d or Low-Chroma C	colors	Other	Mai Hydrio Dons Did.	!
- In A	10 THICK	DARK SURFACE			
Remarks: [7]	I show I show I m	THE STREET WAS A STREET			
WETLAND	DETERMINATIO	N			
		(Circle)			
	Vegetation Presen	t Yes No	·		(Circle)
1	lrology Present	(Yes) No	•	mpling Point in a Wetl	land (Yes) No
Hydric Soils	Present	(Yes) No)		
Remarks:					

(1987 COE Wetland Defineation	17AARUAK)
Project/Site: Onyx Emerald Park Landfill	Date: October 28, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin
Do normal circumstances exist on this site? Yes No	Community ID: UPLAND
Is the site significantly disturbed (Atypical Situation)? Yes (No)	Transect ID:
Is the site a potential problem area? Yes No	Plot ID: WIC-PIO
VEGETATION	
Plant Species Stratum % Cover Indicator Other Plant Sp	ecies Stratum % Cover Indicator
1. Poa pratensis H 80 FACT 1. Fragario	a Virginiana H LS FAC-
ll "	
4 4	
5 5,	
6 6	
7 7	
8 8	
9 9	
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-).	
Remarks:	,
HYDROLOGY	
Recorded Data (Describe in Remarks) Wetl	and Hydrology Indicators
Stream, Lake, or Tide Gauge PrimXAerial Photographs	ary IndicatorsInundated
Other	Saturated in Upper 12 inches
No Recorded Data Available	Water Marks Drift Lines
Field Observations:	Sediment Deposits
Depth of Surface Water: (in) Seco	Drainage Patterns in Wetlands ondary Indicators (2 or more required)
Depth to Free Water in Pit:	Oxidized Root Channels
Depth to Saturated Soil: > 18 (in)	Water-Stained Leaves Local Soil Survey Data
	FAC-Neutral Test
	Other (explain in remarks)
Remarks:	

	· · · · · · · · · · · · · · · · · · ·				
Map Unit 1	Vame:				
(Series and	Phase): 5 AYLE	SVILLE SIL	Drainage Class	<u>aw</u>	
Taxonomy	(Subgroup) TYPK	: HAPLUDAL	Field Observations Confirm Mapped Type? Yes (No)		
Profile Des	eription				
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10YR 2/1	-	and the	SICL
	-				
				· · · · · · · · · · · · · · · · · · ·	
Hydric Soi	l Indicators:				
	istosol		Concretions	Content in Surface Layer	in Sandy Sail
S	istic Epipedon ulfidic Odor		Organic Strea	king in Sandy Soils	in Saidy Son
	quic Moisture Regime educing Conditions			al Hydric Soils List ional Hydric Soils List	
XG	leyed or Low-Chroma (Colors	Other		
Remarks:	A 12 THICK	DARK SURP	ACE	· · · · · · · · · · · · · · · · · · ·	
	ID DETERMINATION	>>1			
WEILAR	ND DETERMINATION	But I I I I I I I I I I I I I I I I I I I			
Livelrophy	tic Vegetation Presen	(Circle) nt Yes (Ñ	<u></u>		(Circle)
1	Hydrology Present	Yes (N	o Is This S	ampling Point in a Wet	
j	oils Present		lo la vina o		
Remarks:			 		
Kemarks.					

		(2)0.0	O 20 11 4 42442		MULUII XIXIIX	, , , , , , , , , , , , , , , , , , ,		······································	· · · · · · · · · · · · · · · · · · ·
Project/Site: Onyx Emer	ald Park	Landfill		·········		Date:	October 2	28, 2005	·
Applicant/Owner: Onyx Waste Services						County	: <u> </u>	<u>Vaukesha</u>	
Investigator: Jerry Kelly, Allison Oberc					State:_	V	Visconsin		
Do normal circumstances ex	ist on th	is site?	(Ž	es N	O	Comm	ınity ID:_\	JPLAND	
Is the site significantly distu	rbed (At	ypical Situ	ation)? Y	es N	>				
Is the site a potential proble	m area?		Y	es (Ñ	Ď,	Plot ID	:W	1-PI	
VEGETATION									
Plant Species	Stratum	% Cover	Indicator	Other I	lant Species		Stratum	% Cover	Indicator
1. Triticum aestivum	<u>H</u>	100	UPC	1. <u>G</u>	ycine ma	Х	1-1	45	UPL
2				2					
3				3					
4				4					
5				5					
6	•		-	6					
7		<u> </u>		7					
8				8		·····			
9				9					
Percent of Dominant Species that (excluding FAC-).	are OBL, I	FACW, or FA	/C						
Remarks:							.,,		
HYDROLOGY	. , , , , , , , , , , , , , , , , , , ,								
Recorded Data (Desc Stream, Lak					Wetland Hy	~-	ndicators		
X Aerial Photo	•	Gauge			Primary IndicatorsInundated				
Other No Recorded Data A	vailable				Saturated in Upper 12 inches Water Marks				
							ft Lines	14 -	
Field Observations:			pri,			Dra		rns in Wetlan	ds
Depth of Surface Wa			Ø ·	(in)	Secondary I		(2 or more dized Root		
Depth to Free Water			. 0	(in) (in)		Wa	ter-Stained	Leaves	
Depth to Saturated So	OII:			(111)	<u> </u>	FA0	al Soil Sur C-Neutral T	Cest .	
		<u>.</u>				Oth	er (explain	in remarks)	
Remarks:									

SOILS Map Unit Name: PD MONTGOMERY SILTY CLAY LOAM Drainage Class (Series and Phase): TYPIC HAPLAGUOLLS Field Observations Taxonomy (Subgroup) Confirm Mapped Type? No **Profile Description** Texture, Concretions, Concentration Depth Matrix Color Concentration Abundance/Contrast Structure, etc. (inches) Horizon Munsell Moist Color 0-8 10YR 2/ SICL 10YR 6/8 PROFILENT 8>18 5Y5/1 FEW, SICL

Hydric Soil Indicators: HistosolHistic EpipedonSulfidic OdorAquic Moisture RegimeReducing ConditionsGleyed or Low-Chroma Colors		Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other						
Remarks: All - DEPLETED	BELOW	DAEK	SURFACE					
MICTIAND DETERMINATION								
WETLAND DETERMINATION								
	(Circle							
Hydrophytic Vegetation Present	Yes	No		(Circle)				
	Yes		Is This Sampling Point in a Wetland	(Circle) Yes No				
Hydrophytic Vegetation Present	Yes	No	Is This Sampling Point in a Wetland	, and				
Hydrophytic Vegetation Present Wetland Hydrology Present	Yes (No No	Is This Sampling Point in a Wetland	, and				
Hydrophytic Vegetation Present Wetland Hydrology Present Hydric Soils Present	Yes (No No	Is This Sampling Point in a Wetland	, and				

		(1907 C	Je wenana	Denneation Manu	ai)				
Project/Site: Onyx Emer	ald Park l	Landfill			Date:_	October 2	8, 2005		
Applicant/Owner: Onyx Waste Services					County	: <u>V</u>	Vaukesha		
Investigator: Jerry Kelly, Allison Oberc					State:	Ŋ	Visconsin		
Do normal circumstances e	xist on thi	s site?	Ϋ́e	s) No	Commi	یا inity ID:	WET LAN	۵	
Is the site significantly dist	urbed (Aty	ypical Situ		Park Market Str. 1	Transec	ct ID:			
Is the site a potential proble	m area?		Ye	s (No)	Plot ID	: W1	1-PZ		
VEGETATION		·····································			<u> </u>				
Plant Species	Stratum	% Cover	Indicator	Other Plant Species		Stratum	% Cover	Indicator	
1. Carex stricta	an-	30	086	1. Cormus stolo	nifera	_5_	45	FACIN	
2. Phalaris arundinacea	<u> -}</u>	30	FACW+	2					
3. Aster lateriflorus				3					
4. Solidago gigantea	1-1	20	FACU	4					
5. Salix exigua		25	087	5				· · · · · · · · · · · · · · · · · · ·	
6				6					
7		***************************************		7					
8				8	,				
9		<u></u>		9	-				
Percent of Dominant Species that		ACW, or FA	C						
(excluding FAC-).	14	. ,			· · · · · · · · · · · · · · · · · · ·				
Remarks.									
HYDROLOGY									
Recorded Data (Des				Wetland Hy		ndicators		······································	
Stream, Lak X Aerial Phot		Gauge		Primary Ind	Primary Indicators Inundated				
Other	-				Saturated in Upper 12 inches				
No Recorded Data A	vailable			-		ter Marks ft Lines			
Field Observations:	· · · · · ·		·			iment Depo		_	
Depth of Surface Wa	ater:		<u>ී</u> (ir	Secondary I			rns in Wetlan required)	ds	
Depth to Free Water	in Pit:	>	· /8 (ir	1 -	Oxi	dized Root	Channels		
Depth to Saturated S	oil:	<u>``</u>	. / § (ir	a)		ter-Stained al Soil Surv			
						C-Neutral T er (explain	`est in remarks)		
Remarks:						(eb.wiii			
					•				

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SO		•
22	-	J

Map Unit Name:				
(Series and Phase): MONTG	OMERY SILTY	CLAY LOAM	Drainage Class	PD
Taxonomy (Subgroup)		Field Observations Confirm Mapped Type	e? (Yes) No	
Profile Description				
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
O-H	10163N	الخالفيو	٠٠٠٠٠	SICL
4>18	N 3/0	Maries		<u> </u>
			_	
			_	
Hydric Soil Indicators:				
Histosol		Concretions	~ · · · · · · · · · · · · · · · · · · ·	
Histic Epipedon Sulfidic Odor		Organic Streat	c Content in Surface Layer aking in Sandy Soils	in Sandy Soil
Aquic Moisture Regime Reducing Conditions	· _		cal Hydric Soils List tional Hydric Soils List	
Gleyed or Low-Chroma	ι Colors	Other	101m2 2-1, 0-1	
Daniel NI DEPLET	TED BELOW DE	ARK SURFACE	2 2 2	
Remarks: All DEPLET	Brand Survey on	, <u>, , , , , , , , , , , , , , , , , , </u>	-	
WETLAND DETERMINAT				
	(Circle)			
Hydrophytic Vegetation Pres	- Description			(Circle)
Wetland Hydrology Present	and a finding at		Sampling Point in a Wet	tland (Yes) No
Hydric Soils Present	(Yes) N	Йo		
Remarks:				
1				

(1507 COZ Wettana Zomioniton 1	
Project/Site: Onyx Emerald Park Landfill	Date: October 28, 2005
Applicant/Owner: Onyx Waste Services	County: Waukesha
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:
Is the site a potential problem area? Yes No	Plot ID: W11-P3
VEGETATION	<u> </u>
Plant Species Stratum % Cover Indicator Other Plant Species	cies Stratum % Cover Indicator
1. Carex stricta H 60 OBL 1. Helianthe 2. Spartina pectinata H 20 FACW+250lidago	ns grosseserratus H 10 FACW- middellii H 45 OBL
	<u> </u>
4 4 4	
5 5	
6 6	
7 7	
8 8	
9 9	
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-).	
Remarks:	
HYDROLOGY	
	nd Hydrology Indicators ry IndicatorsInundatedSaturated in Upper 12 inchesWater MarksDrift Lines
Field Observations:	Sediment DepositsSediment DepositsDrainage Patterns in Wetlands
∥	dary Indicators (2 or more required)
Depth to Free Water in Pit:	Oxidized Root Channels Water-Stained Leaves
Depth to Saturated Soil:(in)	Local Soil Survey Data FAC-Neutral Test Other (explain in remarks)
Remarks:	

Map Unit Name:							
		2					
(Series and Phase): MONTGO		Drainage Class					
Taxonomy (Subgroup)	ic HAPLAQUO	LLS	Field Observations Confirm Mapped Type	e? (Yes) No			
Profile Description							
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.			
0-2	10YR3/3		- Contract	SIL			
2-12	10YR3/		ماهيو	SICL			
12>18	5 GY 5/1	A STATE OF THE STA		<u>C</u>			
	-						
			•				
Hydric Soil Indicators:							
Histosol Histic Epipedon		Concretions	Content in Surface Layer	in Sandy Soil			
Sulfidic Odor		Organic Streak	ing in Sandy Soils	in bandy bon			
Aquic Moisture RegimeReducing Conditions			Hydric Soils List nal Hydric Soils List				
Gleyed or Low-Chroma (Colors	Other					
Remarks: All DEPLETES	> BELCIAL DA	RIC SURFACE					
Remarks: All DEPLETE	2 128 move 1211	30,000					
WETLAND DETERMINATION	N						
	(Circle)						
Hydrophytic Vegetation Preser	nt Yes No	0		(Circle)			
Wetland Hydrology Present	Yes No	o Is This Sai	npling Point in a Wet	land (Yes) No			
Hydric Soils Present	(Yes) No	D					
Remarks:							
·							

	Date: October 28, 2005
Applicant/Owner: Onyx Waste Services	
Investigator: Jerry Kelly, Allison Oberc	State: Wisconsin
	es No Community ID: UPLAND
	res No Transect ID:
	res (No) Plot ID: WII-P4
	cs (m) Hotal
VEGETATION Plant Species Stratum % Cover Indicator	Other Plant Species Stratum % Cover Indicator
1. Triticum aestivum H 95 UPL	1. Verbascum thapsus H 5 UPL
2	2. Taraxacum officinale H <5 FACU
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-).	
Remarks:	
HYDROLOGY	
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge X Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators Primary IndicatorsInundatedSaturated in Upper 12 inchesWater Marks Drift Lines
Field Observations:	Sediment Deposits
	Drainage Patterns in Wetlands Secondary Indicators (2 or more required)
.0	(in) Oxidized Root Channels Water-Stained Leaves
Depth to Saturated Soil:	(in) Local Soil Survey Data FAC-Neutral Test
	Other (explain in remarks)
Remarks:	

Map Unit N	Map Unit Name:						
(Series and Phase): MONTGOMERY SILTY CLAY LOAM					Orainage Class	PD	
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS					Field Observations Confirm Mapped Typ	e? Yes (No)	
Profile Desc	ription						
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentrati Color		Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
<u>6-8</u>		10465/1	******			51Cin	
3>18		10YR3/2		<u> </u>	a Parallelan	SICL	
							
					·		
Hydric Soil	Indicators:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
HisHis	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other					in Sandy Soil	
Remarks:				/			
WETLAN	D DETERMINATIO	N					
		(Circle)					
Hydrophyt	tic Vegetation Preser	nt Yes N				(Circle)	
Wetland H	Iydrology Present	Yes (N	Is T	This Samp	oling Point in a Wet	tland Yes (No)	
Hydric So	ils Present	Yes (N	(a)				
Remarks:							

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Project/Site: Onyx Emerald Park Landfill	Date: November 29, 2005			
Applicant/Owner: Onyx Waste Services	County: Waukesha			
Investigator: Jerry Kelly	State: Wisconsin			
Do normal circumstances exist on this site? Yes No	Community ID: UPLANL			
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:			
Is the site a potential problem area? Yes No	Plot ID: W12 - P1			
VEGETATION				
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator			
1. Medicago sativa H 60 UPL 1. Taraxacum off				
2 Triticum aestinum 14 20 UPL 2 Poo praters	sis H 10 FAC-			
3 3				
4 4				
5 5				
6				
7 7				
8 8				
9 9				
Percent of Dominant Species that are OBL, FACW, or FAC				
(excluding FAC-).				
Remarks:				
INDROLOGY				
HYDROLOGY Recorded Data (Describe in Remarks) Wetland Hy	drology Indicators			
Stream, Lake, or Tide Gauge Primary Ind	Primary Indicators Inundated			
X Aerial PhotographsOther	Saturated in Upper 12 inches			
No Recorded Data Available	Water Marks Drift Lines			
Field Observations:	Sediment Deposits			
Depth to Free Water in Pit: Secondary I	Oxidized Root Channels			
Depth to Saturated Soil: Depth to Saturated Soil:	Water-Stained LeavesLocal Soil Survey Data			
	FAC-Neutral Test			
	Other (explain in remarks)			
Remarks: NO INDICATORS OBSERVED				

Map Unit N	Map Unit Name:							
(Series and	Phase): SANLESYA	LLE SILT LOF	Drai	Drainage Class WD				
Taxonomy (Subgroup) TYPIC HAPLUDALFS					Field Observations Confirm Mapped Type? Yes (No)			
Profile Des	cription							
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentration Color		centration ndance/Contrast	Texture, Concretions, Structure, etc.		
0-12		104R 3/2			market by	SIL		
12>18		104 R 3/3	la _s de*		produce.	514		
			 					
Hydric Soi	I Indicators:							
	istosol		Concretio					
	istic Epipedon ulfidic Odor	_	Organic S	High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils				
A	quic Moisture Regime educing Conditions	_	Listed on Local Hydric Soils List Listed on National Hydric Soils List					
	leyed or Low-Chroma C	Colors	Cisted on	1441101141 11)	dile Bolls Dist			
The second second								
Remarks:								
WETLAN	ND DETERMINATIO	NC						
		(Circle)						
I	tic Vegetation Preser		₹ I			(Circle)		
li .	Hydrology Present	Yes No	~ <u>`</u>	is Samplinį	g Point in a We	etland Yes (No)		
Hydric Sc	oils Present	Yes (No	<u>رر</u>					
Remarks:								
1								

(1907 COE Wetland Defineation	ii i ranuai)			
Project/Site: Onyx Emerald Park Landfill	Date: <u>November 29, 2005</u>			
Applicant/Owner: Onyx Waste Services	County: Waukesha			
Investigator: Jerry Kelly	State: Wisconsin			
Do normal circumstances exist on this site? Yes No	Community ID: WETLAND			
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:			
Is the site a potential problem area? Yes No	Plot ID: W12- P2			
VEGETATION				
Plant Species Stratum % Cover Indicator Other Plant S	pecies Stratum % Cover Indicator			
2. Cormus stolonitera 5 10 FACW 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-).				
Remarks:				
HYDROLOGY				
	tland Hydrology Indicators nary Indicators			
X Aerial Photographs	Inundated			
Other No Recorded Data Available	Saturated in Upper 12 inchesWater Marks			
	Drift Lines			
Field Observations:	Sediment DepositsDrainage Patterns in Wetlands			
\ \ \ \	ondary Indicators (2 or more required) Oxidized Root Channels			
Depth to Free Water in Pit:	Water-Stained Leaves			
Depth to Saturated Soil: (in)	Local Soil Survey Data FAC-Neutral Test			
	Other (explain in remarks)			
Remarks:				
1	_			

Map Unit l	Name:							
-	Phase): Monreo	MERY SILTY	Drainage Class	PD				
					Field Observations			
Taxonomy	(Subgroup) TYPI	C MAPLAQI	70 F F	<u>ee'</u>	Confirm Mapped Ty	/pe? (Yes) No		
Profile Des	cription					· · · · · · · · · · · · · · · · · · ·		
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	entration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.		
0>18		10YR 3/1				SICL		

		**************************************	- ,					
	V= ((
					•			
Hydric Soi	l Indicators:							
	istosol istic Epipedon			oncretions	Contant in Surface I av	an in Sandy Sail		
Sı	ılfidic Odor		Oı	High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils				
	quic Moisture Regime educing Conditions	<u> </u>			al Hydric Soils List onal Hydric Soils List			
	leyed or Low-Chroma (Colors _		ther	•			
Remarks:	A12-THIC	K DNEK SU	RFAC	E	/ n / m / m			
11044	The state of the same	the fatternia a						
WETLAN	ID DETERMINATION							
TT 1 1	**	(Circle)	<u>.</u>			(0) 1)		
' " '	rtic Vegetation Preser		lo Ta	r- mi-i- d.	tto - Daint in a XX	(Circle)		
1	Hydrology Present	Missing Contract	10 10	ls 1ms 9s	ampling Point in a W	etland (Yes) No		
	oils Present	Yes? N	lo					
Remarks:								

Project/Site: Onyx Eme		Date: November 29, 2005					
Applicant/Owner: O		County: Waukesha					
Investigator: Jerry Kell	State: V	Visconsin					
Do normal circumstances	exist on thi	is site?	(Ý	es No	Community ID:_	JPLAND	
Is the site significantly dis	turbed (At	ypical Situ	ation)? Y	es (No)	Transect ID:		
Is the site a potential probl	•	, <u>1</u>	·	es No	Plot ID: W12		
VEGETATION			· · · · · · · · · · · · · · · · · · ·	There are put the			
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
1. Glycine max	_ H_	90	UPL	1. Zea mays	Н	10	UPL
2					fficinale H		
3	 			3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
Percent of Dominant Species tha		ACW, or FA	C				-
(excluding FAC-).							
Remarks:							
INDDOLOGY.							
HYDROLOGY Recorded Data (Decorded D	ike, or Tide tographs			Wetland Hy Primary Ind	vdrology Indicators licators Inundated Saturated in Up Water Marks Drift Lines	oper 12 inche	s
Field Observations:					Sediment Deposits Drainage Patterns in Wetlands		
Depth of Surface Water: (in)				in) Secondary	Indicators (2 or more	required)	us
Depth to Free Water in Pit: (in)				in) —	Oxidized Root Water-Stained		
Depth to Saturated	Soil:		> 18(in)	Local Soil Sur FAC-Neutral T Other (explain	l'est	
Remarks: NO INDICATORS OBSERVED							

Map Unit		MENY CUTY	CLAVIA	Ast.		0.5	
(Series and Phase): MONTGOMERY SILTY CLAY LOAM Taxonomy (Subgroup) TYPIC HAPLAQUOLLS					Drainage Class PD Field Observations		
					Confirm Mapped T	ype? Yes (No)	
Profile Des	scription						
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concentrate Color	tion	Concentration Abundance/Contras	Texture, Concretions, st Structure, etc.	
0-17-		10 YR 3/2			A STATE OF THE STA	SICL	
12>18		5Y5/2					

				····			
		<u>, , , , , , , , , , , , , , , , , , , </u>					
S A R	istic Epipedon ulfidic Odor quic Moisture Regime educing Conditions leyed or Low-Chroma C	dolors	Organi Listed	c Streaki on Local	ontent in Surface Lay ng in Sandy Soils Hydric Soils List nal Hydric Soils List	yer in Sandy Soil	
Remarks:							
WETLAN	ND DETERMINATIO	N					
		(Circle)					
Hydrophy	ytic Vegetation Presen	t Yes No				(Circle)	
Wetland 1	Hydrology Present	Yes (No		This San	npling Point in a W	etland Yes No	
Hydric So	oils Present	Yes N	\supset			*******	
Remarks:							

(1987 COE Wettantu Denneation Mant				
Project/Site: Onyx Emerald Park Landfill	Date: November 29, 2005			
Applicant/Owner: Onyx Waste Services	County: Waukesha			
Investigator: Jerry Kelly	State: Wisconsin			
Do normal circumstances exist on this site? (Yes) No	Community ID: WETLAND			
Is the site significantly disturbed (Atypical Situation)? Yes (No.)	Transect ID:			
Is the site a potential problem area? Yes No	Plot ID: W12-P4			
VEGETATION				
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator			
1. Phalaris arundinacea H 100 FACW+1.				
2 2				
3 3				
44				
7 7				
8 8				
9 9				
Percent of Dominant Species that are OBL, FACW, or FAC				
(excluding FAC-).)〇〇 %	A			
Remarks:				
HYDROLOGY				
Recorded Data (Describe in Remarks) Wetland HyStream, Lake, or Tide Gauge Primary Ind	drology Indicators licators			
X Aerial Photographs	Inundated			
Other No Recorded Data Available	Saturated in Upper 12 inches Water Marks			
No Recorded Data Available	Drift Lines			
Field Observations:	Sediment Deposits			
Depth of Surface Water: (in) Secondary I	Drainage Patterns in Wetlands Indicators (2 or more required)			
Depth to Free Water in Pit:	Oxidized Root Channels			
Depth to Saturated Soil: > / 8 (in)	Water-Stained Leaves Local Soil Survey Data			
	FAC-Neutral Test			
	Other (explain in remarks)			
Remarks:				

Map Unit l	Map Unit Name:						
(Series and Phase): MONTGOMERY SILTY CLAY LOAM					Drainage Class	PD	
Taxonomy	(Subgroup) TYP1	c HAPLAQUE	السلام		Field Observations Confirm Mapped Ty	pe? Yes No	
Profile Des	scription		<u> </u>				
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	entration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0-10		10YR3/2				SICL	
10>18		10YR3/2_	107	1R6/8	MANY PROMINE	M SICL	
<u></u>							
			 				
Trudria Sai	il Indicators						
H St A R	Hydric Soil Indicators: Histosol						
Remarks:	A12-THICK	CDARK SURFA	ACE	****			
	• •						
VACETIAN	AD DETERMINATION	ON1					
VVEILA	ND DETERMINATION	(Circle)					
Hydrophy	ytic Vegetation Prese	- continue	n			(Circle)	
ľ	Hydrology Present	Yes No	, 0	Is This Sa	impling Point in a We		
	oils Present	Yes No		-		- card	
Remarks:				L.,		······································	
Koman.							

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Project/Site: Onyx Emerald Park Landfill	Date: November 29, 2005						
Applicant/Owner: Onyx Waste Services	County: Waukesha						
Investigator: Jerry Kelly	State: Wisconsin						
Do normal circumstances exist on this site? Yes No	Community ID: UPLAND						
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:						
Is the site a potential problem area? Yes No	Plot ID: W12-P5						
VEGETATION	VEGETATION						
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator						
	ota H 10 UPL						
2. Medicago sativa H 40 UPL 2. Taraxacumo	Afficinate H 45 FACU						
3							
4 4							
7 7							
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-).							
Remarks:							
HYDROLOGY							
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge Wetland Hy Primary Ind	drology Indicators						
X Aerial Photographs	Inundated						
Other No Recorded Data Available	Saturated in Upper 12 inches Water Marks						
No Recorded Data Available	water MarksDrift Lines						
Field Observations:	Sediment Deposits						
Depth of Surface Water:(in) Secondary I	Drainage Patterns in Wetlands Indicators (2 or more required)						
Depth to Free Water in Pit:	Oxidized Root Channels						
Depth to Saturated Soil: > / 8 (in)	Water-Stained Leaves Local Soil Survey Data						
	FAC-Neutral Test						
	Other (explain in remarks)						
Remarks: NO INDICATORS OBSERVED							

Map Unit Name:						
(Series and Phase): MARTINTON SILT LOAM				Drainage Class	SPD	
Taxonomy (Subgroup) A QUIC ARGILLOULLS				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		10 YR 3/2	gg-map ^a).	pitellizing g.	514	
17>18		10 YR 3/3	*******	nu jeven	SIL	
						
	MARINEN					
Hydric Soil Indicators:						
HistosolConcretions						
	istic Epipedon ılfidic Odor			High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils		
Aquic Moisture Regime			Listed on Local Hydric Soils List Listed on National Hydric Soils List			
Reducing ConditionsListed on NationGleyed or Low-Chroma ColorsOther				onal Hydric Solis List		
Remarks:						
WETLAND DETERMINATION						
		(Circle)				
Hydrophytic Vegetation Present Yes			- 1		(Circle)	
Wetland Hydrology Present Yes			Is This San	mpling Point in a Wet	tland Yes No	
Hydric Soils Present Yes (No)						
Remarks:						