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

APPENDIX A

U.S. ARMY CORPS OF ENGINEERS DATA SHEETS

<u></u>		(-, -, -	O.E. TTOCKER		- T			
Project/Site: Onyx Eme	erald Park I	Landfill			Date: Octob	oer 26, 2005		
Applicant/Owner: O	County:	Waukesha						
Investigator: Jerry Kelly, Rachel Veltman						Wisconsin		
Do normal circumstances	exist on thi	s site?	⟨Ÿ	es No	Community II	D: UPLAND		
Is the site significantly dis	turbed (Aty	pical Situ	ation)? Y	es No	Transect ID:_			
Is the site a potential probl	lem area?		Y	es No	Plot ID: \(\bar{\lambda})3-Pl		
VEGETATION								
Plant Species	Stratum	% Cover	Indicator	Other Plant Species	Stratui	n % Cover	Indicator	
1. Poa pratensis	<u> </u>	80	FAC-	1. Geum macroph	hyllum H		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	C					
(excluding FAC-).		,,, ,						
Tomarks.								
HYDROLOGY								
		Wetland Hydrology Indicators Primary IndicatorsInundatedSaturated in Upper 12 inchesWater Marks Drift Lines						
Field Observations:					Sediment I		de.	
Depth of Surface Water: (in)					Drainage Patterns in Wetlands Secondary Indicators (2 or more required)			
Depth to Free Water in Pit: \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(Oxidized R Water-Stain	oot Channels ned Leaves		
Depth to Saturated Soil: \(\simegl) \square 1\text{\geq} \(\simegl) \) (in)					Local Soil FAC-Neutr	Survey Data al Test		
						ain in remarks)		
Remarks:								

Map Unit N	Vame:							
(Series and	Phase): MORLEY	SILT LOAM, 2-	6% 5L	OPES	Drainage Class	WD		
Taxonomy	Taxonomy (Subgroup) TYPIC 1-IMPLUBALFS			Field Observations Confirm Mapped Type? (Yes) No				
Profile Des	cription					The control of the co		
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-11		10YR3/2			, marke	SICL		
11>18		104R5/4		Paneri	pat Man	SICL		
	· · · · · · · · · · · · · · · · · · ·							
HiSuAo	il Indicators: istosol istic Epipedon ulfidic Odor quic Moisture Regime educing Conditions ileyed or Low-Chroma C	Colors	HipHipOrLisLisLisLis	ganic Streat sted on Loca	Content in Surface Layer king in Sandy Soils al Hydric Soils List ional Hydric Soils List	∵in Sandy Soil		
Remarks:	Remarks:							
WETLAN	ND DETERMINATION	NC						
		(Circle)						
Hydrophy	ytic Vegetation Preser	<u> </u>	_			(Circle)		
Wetland I	Hydrology Present	Yes No	<u>آ</u> ﴿	Is This Sa	ampling Point in a Wet	tland Yes (No)		
Hydric Sc	oils Present	Yes No	<u> </u>	<u>į </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			
	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, M. C.		•••						
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	Wetland Hydrology Indicators Primary IndicatorsInundatedSaturated in Upper 12 inchesWater 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					
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: 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 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	required)					
Depth to Free Water in Pit:	>18 (in		Oxidized Root Channels Water-Stained Leaves						
Depth to Saturated Soil:	(ir	·	Local Soil Survey Data X FAC-Neutral Test						
	······································		Other (explain						
Remarks: SAMPLE POINT 15	APPROX, 24 INC	hes higher th	TUBDACEUT	WETTLANK),				

Map Unit l							
(Series and	Phase): ELLI	OTT SILT LOP	Drainage Class	SPD			
Taxonomy (Subgroup) A QUIC A R.G. UDOLLS				Field Observations Confirm Mapped Typ	Field Observations Confirm Mapped Type? Yes (No)		
Profile Description					~~~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		2.54 5/3	whilesh	Fine	SICL		
<u> </u>		Audition of the Control of the Contr					

<u> </u>							
Hydric Soil Indicators:			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:							
\/\FTI AI	ND DETERMINATI	ON .					
VV	AD DE CELUION CO.	(Circle)					
Hydrophy	ytic Vegetation Prese				(Circle)		
1	Hydrology Present	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								
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 Ind	licators							
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): ASHKUM SILTY CLAY LOAM					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 Soil Organic 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 _		her	Jimi 11, 4110 5010 2101			
Demarks	F2 LOAMY GL	CYED MATRIX	<u> </u>					
Remains.	f for the total to the terms of	in the contraction						
<u></u>								
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 C	OF Menan	d Delineation Manu	iai)				
Project/Site: Onyx Eme	Date: October 26, 2005								
Applicant/Owner: Onyx Waste Services					County: Waukesha				
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	-P6			
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 Upper 12 inches Water Marks				
No Recorded Data	Avanaoie				Drift Lines				
Field Observations:					Sediment Depo	sits			
,		,	ywa.		Drainage Patter		ds		
Depth of Surface Water: (in) Depth to Free Water in Pit: (in)					ndicators (2 or more and or mo				
Depth to Free Wate	(in) —	Water-Stained							
Depth to Saturated Soil: // (in)				(in)	Local Soil Surv	ey Data			
					FAC-Neutral Test Other (explain in remarks)				
					Outer (explain	m remarks)	<u></u>		
Remarks:									

Map Unit Na	ame:				
(Series and I	Phase): ASHK	UM SILTY CE	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
				• · · · · · · · · · · · · · · · · · · ·	
His Sul Aq Rec X Gle	stosol stic Epipedon Ifidic Odor uic Moisture Regime ducing Conditions eyed or Low-Chroma C	Colors CORFAG	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 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 - 400 -	
Remarks:		Thirds are the			
TOMAIN.					

(1987 COE Wetland Delineation Manual)							
Project/Site: Onyx Emera	ald Park I	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 IndicatorsInundatedSaturated in Upper 12 inchesWater 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	Hydric Soil Indicators: Histosol						
Remarks:	F3 DEPLETED	MRTRIX					
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: Oc	tober 2:	5, 2005	
Applicant/Owner: On	yx Waste	Services			County:	W	aukesha	
Investigator: <u>Jerry Kelly</u>	, Rachel	Veltman			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-	J., 1, T., dia.			
Recorded Data (Desc Stream, Lak					Wetland Hydrology Indicators Primary Indicators			
X Aerial Photo		Ŭ		_	Inundate	- •-		
Other					Saturate Water N		per 12 inches	3
No Recorded Data A	vallable			_	water N Drift Lin			
Field Observations:					Sedime		its	
Pield Observations: Depth of Surface Water: (in)				1)	Drainage Patterns in Wetlands Secondary Indicators (2 or more required)			
V. 16			2000			equired) Channels		
Depth to Free Water in Pit: (in) Depth to Saturated Soil: (in)					Stained L			
Depin to Saturated S	OII.		(II	"	Local S FAC-No			
							n remarks)	
Remarks:								
				•				

DATA FORM

	E WETLAND DETEI OE Wetland Delineati		
SOILS	OE Welling Delinear		
Map Unit Name:			
(Series and Phase): ASHKUM SILTY	CLAY LOAM	Drainage Class	PO
Taxonomy (Subgroup) TYPIC けれたAQ	UOLLS	Field Observations Confirm Mapped Type	e? (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° A. '	· 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	Drainage Class	SPD	
Taxonomy (Subgroup)	Taxonomy (Subgroup) AQUIC ARGIUDOLLS			pe? (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:				

		(1707 C	OL WOUND	i Delineation isan	,			
Project/Site: Onyx Er	nerald Park I	Landfill			Date:_	October 2	25, 2005	
Applicant/Owner: Onyx Waste Services					County	: <u>v</u>	Vaukesha	
Investigator: <u>Jerry Ke</u>	lly, Rachel V	/eltman			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	<u>H</u>	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 Primary In		ndicators		
X Aerial Pl	hotographs	Cauge			Inu	ndated	40.	
OtherOtherOther	a Available			_		urated in Up ter Marks	oper 12 inche	:S
						ft Lines liment Depo	vaita	
Field Observations:	*** .		A c		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): ASHKUM SILTY CLAY LOAM					Drainage Class	. PD
Taxonomy	(Subgroup) TYPIC	- HAPCAQU	JOLLS		Field Observations Confirm Mapped Type	e? (Yes) No
Profile Des	cription					
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	entration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11		104R2/1		dan.		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	in Sandy Son
	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	ON				
		(Circle)				
11	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					Date: October 2		
Applicant/Owner: Onyx Waste Services					County: V		
Investigator: Jerry Kelly	y, Rachel V	eltman			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	em area?		Y	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 U	pper 12 inche	S
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 ISYR 3/2	(Series and	l Phase): <u> </u>	4 SILTY CI	AY LOI	M	Drainage Class	PD
Depth (inches) Horizon Matrix Color Munsell Moist Color Abundance/Contrast Structure, etc.	Taxonomy	(Subgroup) TVF	nc Happe	QUOLLS	<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		.mrža.,	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 Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Check Circle Circle Hydrophytic Soils List Circle Is This Sampling Point in a Wetland Yes No Hydric Soils Present Yes No Hydric Soils 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			and a state of the
<u> </u>	l				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 2	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 Up	per 12 inche	S
No Recorded Data Available		Water Marks Drift Lines		
Field Observations:		Sediment Depo		_
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 (Duogroup)			Confirm Mapped	Type? Yes (No/
Profile Description				
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	on Concentration Abundance/Conte	Texture, Concretions, rast Structure, etc.
0>12	N2.5/0			MUCK
		· · · · · · · · · · · · · · · · · · ·		
			egy to the time of time of the time of time of the time of tim	
Reducing Conditions Gleyed or Low-Chron Remarks: A 1 14157056		Listed o	n National Hydric Soils L	ıst
WETLAND DETERMINA	TION			
	(Circle)			
Hydrophytic Vegetation Pre	esent Yes I	No		(Circle)
Wetland Hydrology Present	t Yes 1	No Is T	his Sampling Point in a	Wetland Yes No
Hydric Soils Present	Yes 1	No	·	
Remarks:				

		(1907 C	OF Menar	и реппе	ation Manu	(41 <i>)</i>			····
Project/Site: Onyx Eme	rald Park l	Landfill				Date:	October 2	5, 2005	_
Applicant/Owner: Or	iyx Waste	Services	···			County: Waukesha			
Investigator: <u>Jerry Kelly, Rachel Veltman</u>						State:	<u> </u>	/isconsin	
Do normal circumstances exist on this site? Yes No						Commu	nity ID: <u>\</u>	PLAND	
Is the site significantly dist	urbed (Aty	ypical Situ	ation)? Y	es No	Ò	i			
Is the site a potential problem area? Yes (No)						Plot ID:	<u> </u>	<u>- P7</u>	
VEGETATION									
Plant Species	Stratum	% Cover	Indicator		lant Species		Stratum	% Cover	Indicator
1. Triticum aestivum	14_	80	UPL	1. Tara	exacum of	ficinale			FVCO
2				2. Gly	yeine ma	χ	<u>H</u>	10	UPL_
3				3			,		
4				4					
5		***************************************		5					
6			<u></u>	6		<u></u>			
7				7	<u>,,, ,, , , , , , , , , , , , , , , , ,</u>				
8				8					
9				9					
Percent of Dominant Species tha	t are OBL, F	ACW, or FA	AC						
(excluding FAC-).						·····	 		
Romans.									
HYDROLOGY							·		
HYDROLOGY Recorded Data (Describe in Remarks)Stream, Lake, or Tide GaugeXAerial PhotographsOtherNo Recorded Data Available					Wetland Hydrology Indicators Primary IndicatorsInundatedSaturated in Upper 12 inchesWater MarksDrift Lines				
Field Observations:					Sediment Deposits				
Depth of Surface Water: (in)					Drainage Patterns in Wetlands Secondary Indicators (2 or more required)				
Depth to Free Water in Pit:							lized Root er-Stained		
Depth to Saturated Soil: > 18 (in)			(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 * glanca 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:								
IXMIRITAG.								
HYDROLOGY								
Recorded Data (Describe in Remarks) Wetland I	Hydrology Indicators							
Stream, Lake, or Tide Gauge X Aerial Photographs	Primary IndicatorsInundated							
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	`					
Map Unit Name:						
(Series and Phase): ASHKU	IM SILTY CL	agy ya.	M	Drainage ClassPD		
Taxonomy (Subgroup)	c HAPLAQ	Field Observations Confirm Mapped Type? Yes (No)				
Profile Description						
Depth (inches) Horizon			ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0>12	N 2.5/0		Mr.ch.	cylen-	MUCK	
Hydric Soil Indicators:						
Mistosol						
Remarks: A H 1570500	-					
WETLAND DETERMINATION	⊃NI					
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.	
Remarks:	· ·		****			
A EVALUATION						

					, , , , , , , , , , , , , , , , , , , 		**************************************	
Project/Site: Onyx Eme	erald Park	Landfill		Date:	October 2	27, 2005		
Applicant/Owner:O	nyx Waste	Services			County:	<u>v</u>	Vaukesha	
Investigator: <u>Jerry Kell</u>		State:	V	Visconsin				
Do normal circumstances	exist on th	is site?	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 (Decorded Data		Wetland Hydrology Indicators Primary IndicatorsInundatedSaturated in Upper 12 inchesWater Marks Drift Lines						
Field Observations:		Sediment Deposits						
Depth of Surface W	in) Secondary I	Drainage Patterns in Wetlands Secondary Indicators (2 or more required)						
Depth to Free Water	(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	Drainage Class	PD				
Taxonomy (Su	Taxonomy (Subgroup) TYPIC HARLAQUOLLS				Field Observations Confirm Mapped Type? 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	ON						
		(Circle)						
	Vegetation Prese drology Present Present	Yes (N	**	Sampling Point in a We	(Circle) tland 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 Secondary 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 HAPLAQUOLLS			Field Observations Confirm Mapped Type	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	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	ON							
	(Circle)							
Hydrophytic Vegetation Prese	nt (Yes N	o		(Circle)				
Wetland Hydrology Present	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	Date: October 27, 2005						
Applicant/Owner: On	County:	County: Waukesha						
Investigator: <u>Jerry Kelly</u>	State:	State: Wisconsin						
Do normal circumstances e	Community I	Community ID: UPLAND						
Is the site significantly dist	urbed (At	ypical Situ	ation)? Y	es No	Transect ID:_	Transect ID:		
Is the site a potential proble	em area?		Y	es (No)	Plot ID:	Plot ID: WGA-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			
Other No Recorded Data A	\vailable				Saturated in Upper 12 inches Water Marks			
					Drift Lines			
Field Observations:					Sediment DepositsDrainage Patterns in Wetlands			
Depth of Surface Water: (in)					Secondary Indicators (2 or more required)			
Depth to Free Water in Pit: (in)					Oxidized Root Channels Water-Stained Leaves			
Depth to Saturated Soil: (in)					Local Soil Survey Data			
				_	FAC-Neut Other (exp	ral Test lain in remarks)		
Remarks:			· · · · · · · · · · · · · · · · · · ·					

Map Unit Name:							
(Series and Phase): A SHKU	IM SILTY CLA	Y LOAM	Drainage Class	<u>612</u>			
Taxonomy (Subgroup) TYPIC	HAPLAQUOI	<u></u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description			••				
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.			
0-4	10YR 3/1	spine(re	STREET.	SICL			
4>18	10YR 4/3	TAPPACE	. نوين	SIL			
· · · · · · · · · · · · · · · · · · ·							
<u> </u>							

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:							
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: Onyx Waste Services					County:	Waukesha	· · · · · · ·	
Investigator: <u>Jerry Kell</u> y	State:	Wisconsin						
Do normal circumstances e	exist on thi	is site?	⟨Ŷ́	es No	Community ID:_	UPLAN	\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-	<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		, <u>, , , , , , , , , , , , , , , , , , </u>	•	
8	<u></u>			8		· · · · · · · · · · · · · · · · · · ·		
9				9				
Percent of Dominant Species tha		ACW, or FA	VC					
(excluding FAC-), 25%								
Remarks:								
IIVDROLOGV								
HYDROLOGY Recorded Data (Des	scribe in Re	marks)		Wetland Hy	drology 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	:40		
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	rvey Data		
				_	FAC-Neutral ' Other (explain			
					Omer (exhian	i in remarks)		
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 Landfill	1		Date: October 27, 2005
Applicant/Owner: Onyx Waste Service	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 S	The same of the sa	(No)	Transect ID:
	•	(V)	Plot ID: W 6-PZ
Is the site a potential problem area?	103	(110)	110110.
VEGETATION Plant Species Stratum % Cov	ver Indicator Oth	ner Plant Species	Stratum % Cover Indicator
1. Phalaris arundinasea 1-1 90			
2. Salix exigue 5 56	08L 21	Aster lanced	platus H 5 FACW
3			
4.			
5			
6			
7			
8			
9.			
Percent of Dominant Species that are OBL, FACW, or			
(excluding FAC-). 人の多			
Remarks:			
HYDROLOGY		1 1 177	
Recorded Data (Describe in Remarks) Stream, Lake, or Tide Gauge		Wetland Hy Primary Ind	drology Indicators icators
X Aerial Photographs		-	Inundated Saturated in Upper 12 inches
Other No Recorded Data Available		_	Saturated in Opper 12 monesWater Marks
	<u>.</u>		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:	>1% (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	551001		Outer (organia in comment)
Remarks. 1010001000000000000000000000000000000			

Map Unit Name:								
(Series and Phase): ELLI	OTT SILT L	MAO-	Drainage Class SPD					
Taxonomy (Subgroup)	nc Arenupa	<u> </u>	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	546/3	10YR6/8	MANY/PROMINENT CL					
	•							
Hydric Soil Indicators:								
Histosol Histic Epipedon Sulfidic Odor		Organic Streak	Content in Surface Layer in Sandy Soil ting in Sandy Soils					
Aquic Moisture RegimeReducing Conditions	and the second s		n Hydric Soils List Onal Hydric Soils List					
Gleyed or Low-Chroma	Colors	Other						
Remarks: FZ LOAMY GI	LEYED MATRIX							
The same of the sa								
WETLAND DETERMINATION								
The second secon	(Circle)		(Cirola)					
Hydrophytic Vegetation Prese		Į.	(Circle) ampling Point in a Wetland (Yes) No					
Wetland Hydrology Present	parties.		impling Polit in a Wetland (165, 140					
Hydric Soils Present	(Yes N	0 1						
Remarks:								

<u> </u>		(1307 C	OE WELIAM	d Delineation Man	1 .	· · · · · · · · · · · · · · · · · · ·		
Project/Site: Onyx Emerald Park Landfill						October 2	27, 2005	·····
Applicant/Owner: Onyx Waste Services						: <u>V</u>	Vaukesha	.
Investigator: <u>Jerry Kelly</u>	Investigator: Jerry Kelly, Rachel Veltman						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	iter:			in) Secondary	Indicators	(2 or more		цэ
Depth to Free Water in Pit: \(\simeq \simeq \lambda \) (in)						dized Root ter-Stained		
Depth to Saturated S	oil:		18 (in)		ter-Stained al Soil Sur		
				_		C-Neutral T	est in remarks)	
Remarks:					Out.	or Conpiani	11 I VIIIUINO)	<u></u>
Achians.								

Map Unit l	Name:						
(Series and	Phase): ELLIOT	T SILT	Drainage Class SPD				
	Taxonomy (Subgroup) AQUIC ARGIUDOLLS				Field Observations Confirm Mapped Type? Yes (No.)		
Profile Des	scription					January V.	
Depth (inches)			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			. 0	n)	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? (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 below dy	1RK 50	URFACE NCLUSI	ONS.			
WETLAN	D DETERMINATION	ON			•			
		(Circle)						
Hydrophy	tic Vegetation Preser	nt Yes N	ío 📗			(Circle)		
Wetland I	A				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: W7-PZ		
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			
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:	Onor (orpoun 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 /No/ Hydric Soils Present Yes Remarks:

Project/Site: Onyx Eme	erald Park			Domeaton 11111	Date:(October 2	26, 2005	
Applicant/Owner: Onyx Waste Services					County: Waukesha			
Investigator: Jerry Kelly, Rachel Veltman							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	< 5	FACW
5				s. Achillea mil	litolium	1-1	45	FACU
6				6. Fragaria vir	reinlera.	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 W			10	(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				
	PIC HAPLUD		Field Observations				
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?	No 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)		•	drology Indicators			
Stream, Lake, or Tide GaugeXAerial Photographs			Primary IndicatorsInundated			
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:	7.5	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 (Taxonomy (Subgroup) TYPIC HAPLAQUOLLS			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.
0-8		10YR 2/1	450444		SIGL
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:					

(1987 COE Wetland Deimeation Manual)								
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: UPLAND							
Is the site significantly disturbed (Atypical Situation)? Yes No	Transect ID:							
Is the site a potential problem area? Yes No	Plot ID: W9A-Pl							
VEGETATION								
Plant Species Stratum % Cover Indicator Other Plant Species								
1. Poa praterisis H 90 FACT 1. Dancus	carota H 5 UPC							
2	ilosus H 5 FACUT							
3 3.Spartina	pectinata H <5 FACW+							
4 4. <u>Eutham</u>	iagraminitalia 11 _ <5 - MCVV-							
5 5	·							
6								
7 7								
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 Deposits Drainage Patterns in Wetlands							
	Secondary Indicators (2 or more required)							
Depth to Free Water in Pit: $\frac{\sum \int \delta}{\delta}$ (in)	Oxidized Root ChannelsWater-Stained Leaves							
Depth to Saturated Soil: (in)	Local Soil Survey Data FAC-Neutral Test							
	Other (explain in remarks)							
Remarks:								

SOILS Map Unit Name: (Series and Phase): MONTGOMERY SILTY CLAY LOAM 26D 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)	PIC HAPLAGE	iouls_	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>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>	(1767 COE Wettand Demication Mandal)							
Project/Site: Onyx Emerald Park Landfill						Date: October 27, 2005		
Applicant/Owner: Onyx Waste Services				County:V	<u>Vaukesha</u>			
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 proble	m area?		Ye	s 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:					. 4	Drainage Patte Indicators (2 or more		ıds
Depth of Surface Water: (in)					ondary I	Oxidized Root		
Dopar to 1 too tratter man.				·		Water-Stained		
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	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	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			
		·					
			· · · · · · · · · · · · · · · · · · ·				
		•					
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions	Histic Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime High Organic Content in Surface Layer in Sandy Soils Listed on Local Hydric Soils List						
Remarks: F 2 LOAMY GLEYED MATRIX							
Total Inc.	•						
WETLAND DETERMINATI							
	(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	Project/Site: Onyx Emerald Park Landfill				Date: October 2	7, 2005	
Applicant/Owner: Onyx Waste Services			County: W	Vaukesha			
Investigator: Jerry Kelly, Rachel Veltman				State: V	/isconsin		
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				7			
8		•		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		Cuugo			Inundated		
Other	- .				Saturated in U	pper 12 inche	8
No Recorded Data	Available			-	Water Marks Drift Lines		
	· 				Sediment Depo	osits	
Field Observations:			<i>/</i> *,¬		Drainage Patte	rns in Wetlar	ıds
				in) Secondary	Indicators (2 or more		
Depth to Free Water in Pit: \(\simegl) \(\frac{1}{\delta}\) (in)			in) —	Oxidized Root Water-Stained			
Depth to Saturated Soil: > /8 (in)			in) –	Local Soil Sur			
Doput to Saturated Son.				FAC-Neutral Test			
					Other (explain	in remarks)	
Other (explain in remarks) Remarks:							

Map Unit Name:								
(Series and	Phase): MONTGO	MERY SILTY C	Drainage Class	<u>P0</u>				
Taxonomy	Taxonomy (Subgroup) TYPIC HAPLAQUOLLS			Field Observations Confirm Mapped Typ	e? (Yes) No			
Profile Des	cription							
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 A Listed on National Hydric Soils List Other							
Remarks:	Remarks: A 12 THICK DARK SURFACE							
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 Eme	erald Park I		Date: October 27, 2005			
Applicant/Owner: O	County: Waukesha					
Investigator: Jerry Kell	State: Wisconsin					
Do normal circumstances	Community ID: WETLAND					
Is the site significantly dis	turbed (Aty	pical Situ	ation)? Ye	es No	Transect ID:	
Is the site a potential probl	em area?		Ye	s (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) Limitic 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	-	حمدر	d)m.m.	MUCK		
Hydric Soil Indicators:							
Hydric Soil Indicators: Histosol							
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							

	(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?	Ye	es (No)	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, FA	ACW, 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:						
(Series and Phase): Moure	SOMERY SILTY	CLAY LOAM	Drainage Class	D		
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS			Field Observations Confirm Mapped Type	e? (Yes) No		
Profile Description				Septiment of the septim		
Depth (inches) Horizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.		
0>18	10YR7/1	-	grand .	<u> </u>		
				And A L		
		,				
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 DETERMINATI	ION					
VV LI LI WAR IN THE WAY AND THE WAY	(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) 1	No				
Remarks:						

Project/Site: Onyx Emerald Park Landfill		Date: October 2	25, 2005	
Applicant/Owner: Onyx Waste Services	County: Waukesha			
Investigator: <u>Jerry Kelly, Rachel Veltman</u>		State: V	Visconsin	
Do normal circumstances exist on this site? Is the site significantly disturbed (Atypical Situation Is the site a potential problem area?	Community ID: WETLAND Transect ID: Plot ID: WIO-P2			
VEGETATION				
Plant Species Stratum % Cover Ind	cator Other Plant Species	Stratum	% Cover	Indicator
1. Phalamis arundinasea. 1-1 100 Fi 2. 3. 4. 5. 6. 7. 8. 9. Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-).	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:	(in) Secondary Indicates the control of the control	Irology Indicators cators Inundated Saturated in Up Water Marks Drift Lines Sediment Depo Drainage Patte Indicators (2 or more Oxidized Root Water-Stained Local Soil Sury FAC-Neutral T	osits rns in Wetlan required) Channels Leaves vey Data Cest	
Remarks:		-		

Map Unit Name:	·						
(Series and Phase): N	10NTGOMERY SILT	Drainage Class	PD				
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS		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 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 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 FACT					
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-). (excluding FAC-).						
Nonard.						
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:						

Map Unit Name:						
(Series and Phase): MONTGOMERY SILTY CLAY LOAM			Drainage ClassPD			
Taxonomy (Subgroup) TYPIC HAPLAQUOLLS		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 Remarks: All DEPLETED BELOW DARK SURFACE						
Remarks: All DEPLE	HED REFORM D	Idland Dorol 140				
WETLAND DETERMINATION	WETLAND DETERMINATION					
	(Circle)					
Hydrophytic Vegetation Prese	Hydrophytic Vegetation Present Yes No (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			
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-		
22			
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 HAPLAQUOLLS				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 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 SURFAC	in En	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
WETLAI	ND DETERMINATI	ON			
		(Circle)			
Hydroph	ytic Vegetation Prese	ent Yes N	lo		(Circle)
Wetland Hydrology Present Yes No Is This S			is Sampling Point in a V	Wetland Yes No	
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	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) AQUIC ARGIVDOLLS		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.
0-5	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	,erres		514
Hydric Soil Indicators: HistosolConcretionsHistic EpipedonHigh Organic Content in Surface Layer in Sandy SoilSulfidic OdorOrganic Streaking in Sandy SoilsAquic Moisture Regime Listed on Local Hydric Soils ListReducing ConditionsListed on National Hydric Soils ListGleyed or Low-Chroma ColorsOther				
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:				

ald <u>Park</u>					28, 2005	
				County: V	Vaukesha	
				•		
		(Ýí	No.			
		TRANSITION IN	Annual Contraction of the Contra			
	Abteat pite	•	distriction .			
.II ai Ca i			9 (TW)	1100110.		
Stratum	% Cover	Indicator	Other Plant Species	Stratum	% Cover	Indicator
					···	
			8			
<u>}</u>					······································	
rihe in Re	-marks)		Wetland H	vdrology Indicators	,	
e, or Tide				dicators		
				Saturated in U	pper 12 inche	S
vailable			_	Water Marks Drift Lines		
				Sediment Depo		_
ter:			n) Secondary			ds
in Pit:	<u> </u>		n) —			
oil:	>	18 (i	n)	📉 Local Soil Sur	vey Data	
			_			
					. H. A CAMBELLON	
						
	Allison cist on the ribed (At marea? Stratum July are OBL, In the paraphs vailable ter: in Pit:	ald Park Landfill //x Waste Services Allison Obere cist on this site? ribed (Atypical Situation area? Stratum % Cover 1 100 are OBL, FACW, or FA are OBL, FACW, or FA cover of Tide Gauge or Tide Gauge	ald Park Landfill //x Waste Services Allison Oberc cist on this site? // Allison Oberc cist on this site? // Allison Oberc // Allis	Allison Oberc cist on this site? Allison Oberc Allison Obe	County: Vex Allison Obere State: Vex No Community ID:	Date: October 28, 2005 County: Waukesha County: Waukesha County: Waukesha County: Waukesha State: Wisconsin County: Wisconsin Coun

N

	ROUTINE WETLAND DET	ERMINATIO
SOILS		
Map Unit Name:		
(Series and Phase): MONTGOME	RY SILTY CLAY LOAM	Drainage Cl

Map Unit N	ame:					
(Series and	Phase): MONTEO	MERY SILTY	CLAY L	MAQ	Drainage Class	PD
Taxonomy ((Subgroup) TYPI	- HAPLAQ	UOLLS		Field Observations Confirm Mapped Type	e? (Yes) No
Profile Desc	eription					****
Depth (inches)	Horizon	Matrix Color Munsell Moist	Conce Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10YR2/1	- Company		, m.e.	SICL
			No.			
			-			
	***************************************		<u> </u>			
Hi Ac	stosol stic Epipedon Ifidic Odor quic Moisture Regime educing Conditions eyed or Low-Chroma (Colors	Hi Or X Li	ganic Streak sted on Local	Content in Surface Layer ng in Sandy Soils Hydric Soils List nal Hydric Soils List	in Sandy Soil
Remarks:	A12-THICK	JARK SURFAC	E.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
WETLAN	ID DETERMINATION	N				
		(Circle)				
Hydrophy	tic Vegetation Preser		No			(Circle)
Wetland I	Hydrology Present	Yes	No	Is This Sa	npling Point in a Wet	land (Yes) No
Hydric So	ils Present	(Yes)	No			
Remarks:						

(1767 COE WEIGHTE DEMINISTRATION 1720)	
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	MAR		Drainage Class	<u> 500</u>	
Taxonomy	(Subgroup) AQU	NC ARGIUD	olls		Field Observations Confirm Mapped Typ	pe? (Yes) No	
Profile Des	scription						
Depth (inches)	Horizon	Matrix Color Munsell Moist	Concer Color	ntration	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.	
0-6		<u>10个R3人</u>				<u> </u>	
6>18		10483/3			Lents-	SIL	
	445 H						
	÷				<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	OTT TAYUTYA	arj			
Project/Site: Onyx Eme	rald Park	Landfill				Date:	October 2	28, 2005	····
Applicant/Owner: Or	ıyx Waste	Services			.	County:	<u>V</u>	<u>Vaukesha</u>	
Investigator: Jerry Kelly	, Allison	Oberc				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	OBL	1.Solida	igo caria	densis	14	10	FACU
2. Cormus l'acernoja	5	9~0	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	imary Indi	Inun	dated		
Other	\						rated in Up er Marks	per 12 inche	s
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	LAY LOAM	Drainage Class	PP
Taxonomy (Sub	ogroup) T YP1	c HAPLAQUO	الدلخ	Field Observations Confirm Mapped Type	e? Yes No
Profile Descript	tion				
Depth (inches) H	lorizon	Matrix Color Munsell Moist	Concentration Color	Concentration Abundance/Contrast	Texture, Concretions, Structure, etc.
0>18		10/87V	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 PrimX Aerial 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:	

	<u> </u>				
Map Unit 1	Vame:				
(Series and	Phase): 5 AYLE	SVILLE SIL	T LOAM	Drainage Class	<u>aw</u>
Taxonomy	(Subgroup) TYPK	: HAPLUDAL	_FS	Field Observations Confirm Mapped Type	e? 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	-	ami debba	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: Ony	yx 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 Primary Ind	~-	ndicators		
X Aerial Photo	•	Gauge			Timary ind	Inur	ndated	10	
Other No Recorded Data A	vailable						irated in Uj ter Marks	oper 12 inches	S
							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		X I	Concretions Iigh Organic Content in Surface Layer in Sand Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other	dy Soil
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

(1987 COE Wetland Defineation Manual)								
Project/Site: Onyx Emer	ald Park l	Landfill			Date: October 28, 2005			
Applicant/Owner: Onyx Waste Services					County: Waukesha			
Investigator: Jerry Kelly, Allison Oberc S					State:	Ŋ	Visconsin	
Do normal circumstances exist on this site? Yes 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 problem area? Yes No					Plot ID	: W1	1-PZ	
VEGETATION								
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 Water:				Secondary I	Drainage Patterns in Wetlands Secondary Indicators (2 or more required)			
Depth to Free Water in Pit: > / \$\hat{Y} (in)					Oxi	dized Root	Channels	
Depth to Saturated Soil: (in)						ter-Stained al Soil Surv		
						C-Neutral T er (explain	`est in remarks)	
Remarks:						(eb.wiii		
					•			

$\alpha \alpha$	TT	~
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	٠٠٠٠٠٠	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:					
			_	. ~	
(Series and Phase): MONTGO					
Taxonomy (Subgroup)	ic HAPLAQUO	LLS	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.	
0-2	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	ame:						
(Series and l	Phase): Montgom	ERY SILTY CL	MAOJ MA	I	Orainage Class	PD	
Taxonomy (Subgroup) TYPIC	= HAPLAGU	ous		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	Hydric Soil Indicators: Histosol						
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:							

(1907 COE Wettand Denneation Manu				
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			
Field Observations:	Drift LinesSediment Deposits			
	Drainage Patterns in Wetlands Secondary Indicators (2 or more required)			
Depth to Free Water in Pit: Secondary I	Oxidized Root Channels			
Depth to Saturated Soil: Depth to Saturated Soil:	Water-Stained Leaves			
	Local Soil Survey DataFAC-Neutral Test			
	Other (explain in remarks)			
Remarks: NO INDICATORS OBSERVED				

Map Unit N	Jame:							
(Series and	Phase): SANLESYA	LLE SILT LOF	M	Drai	Drainage Class WD			
Taxonomy	(Subgroup) TY	PIC HAPLUD	ALFS		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	Streaking in S		er in Sandy Soil		
A	quic Moisture Regime educing Conditions	_	Listed on	Local Hydri		·		
	leyed or Low-Chroma C	Colors	Other	1441101141 11)	dile Bolls Diet			
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:						
(Series and Phase): MONTGOMERY SILTY CLAY LOAM					Drainage Class	PD	
					Field Observations		
Taxonomy	(Subgroup) TYPI	C MAPLAQI	70 F F	<u>w</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	

· · · · · · · · · · · · · · · · · · ·							
· ·							
					•		
Hydric Soi	l Indicators:						
	istosol istic Epipedon			oncretions	Content in Surface Lay	an in Sandy Sail	
Sı	ılfidic Odor		Oı	ganic Streal	king in Sandy Soils	er in Sandy Son	
	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 DVEK 20	REAC	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	1o				
Remarks:							

Project/Site: Onyx Emerald Park Landfill					Date: November 29, 2005		
Applicant/Owner: Onyx Waste Services					County: Waukesha		
Investigator: Jerry Kell	у				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	66						
7				7			<u></u>
8				8			
9				9			
Percent of Dominant Species tha		ACW, or FA	C				
(excluding FAC-).							
Remarks:							
INDDOLOGY.							
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					s		
Field Observations:					Sediment Depo		.1_
Depth of Surface Water:(in)				in) Secondary	Drainage Patterns in Wetlands Secondary Indicators (2 or more required)		
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 INDICE	XTORS	OBSER	:VED				

Map Unit		MERY EUTY	CLAVIA	s.Ast		05		
(Series and Phase): MONTGOMERY SILTY CLAY I Taxonomy (Subgroup) TYPIC HAPLAQUOLLS				<u> </u>	Field Observations	Orainage Class PD		
					Confirm Mapped	Type? Yes (No)	
Profile Des	scription							
<u>=</u>		Matrix Color Munsell Moist	Concentr Color		Concentration Texture, Conc Abundance/Contrast Structure, etc.			
0-12-		10 YR 3/2		-	_ nad Herb	SICE	****	
12>18		5Y5/2	(2					
		-						
								
<u></u>								
S A R	listic Epipedon ulfidic Odor .quic Moisture Regime .educing Conditions lleyed or Low-Chroma C	olors	Organ	nic Streaki i on Local i on Natio	ontent in Surface Lang in Sandy Soils Hydric Soils List nal Hydric Soils Lis			
Remarks:								
WETLAN	ND DETERMINATIO	N						
		(Circle)						
Hydrophy	ytic Vegetation Presen	t Yes No				(Cir	cle)	
Wetland l	Hydrology Present	Yes (No) Is	This San	npling Point in a V	Vetland Yes	No	
Hydric So	oils Present	Yes N	\supset				-	
Remarks:								

(1987 COE Wettand Defineation Man									
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									
4									
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 HyStream, Lake, or Tide Gauge Primary Inc	ydrology Indicators licators								
X Aerial Photographs	Inundated								
Other No Recorded Data Available	Saturated in Upper 12 inches Water Marks								
	Drift Lines								
Field Observations:	Sediment DepositsDrainage Patterns in Wetlands								
	Secondary 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								
<u> </u>	FAC-Neutral Test Other (explain in remarks)								
Remarks:	out (orpun mionars)								
Remarks.									
	<u> </u>								

Map Unit Name:										
(Series and Phase): MONT G	(Series and Phase): MONT GOMERY SILTY CLAY LOAM Drainage Class PD									
Taxonomy (Subgroup)	PIC HAPLAQUI	oer S	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.							
0-10	10YR3/2		SICL							
10>18	10YR3/2	10486/8	MANY PROMINENT SICL							
		· · · · · · · · · · · · · · · · · · ·								
Tydria Sail Indicators										
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regim Reducing Conditions	Histic Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime High Organic Content in Surface Layer in Sandy Soil Organic Streaking in Sandy Soils Listed on Local Hydric Soils List									
Remarks: A12-THIC	K DARK SURF.	ACE								
WETLAND DETERMINAT	rioni									
METERIAD DETERMINATI	(Circle)									
Hydrophytic Vegetation Pres	- continue	0	(Circle)							
Wetland Hydrology Present	(Yes) No	o Is This S	Sampling Point in a Wetland (Yes) No							
Hydric Soils Present	Yes No									
Remarks:	***************************************									

(1907 COE Wettand Defineation Mand									
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									
Plant Species Stratum % Cover Indicator Other Plant Species	Stratum % Cover Indicator								
	TA H 10 UPL								
2. Medicago sativa H 40 UPL 2. Taraxacum d	Micinale H 45 FACU								
3 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 icators								
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 Secondary Indicators (2 or more required)								
Depth to Free Water in Pit: > 18 (in)Oxidized Root Channels									
Depth to Saturated Soil: Water-Stained Leaves Local Soil Survey Data									
	FAC-Neutral Test								
	Other (explain in remarks)								
Remarks: NO INDICATORS OBSERVED									

Map Unit 1	Vame:									
(Series and	Phase): MARTI	NTON SILT	Drainage Class	SPD						
Тахопоту	(Subgroup) A Q	nc Argudo	<u> </u>	Field Observations Confirm Mapped Typ	e? Yes (No)					
Profile Des	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 Soi	I Indicators:									
	istosol	_	Concretions							
	istic Epipedon ılfidic Odor			Content in Surface Layer ing in Sandy Soils	in Sandy Soil					
A	quic Moisture Regime		∠ Listed on Loca	l Hydric Soils List						
	educing Conditions leyed or Low-Chroma (Colors	Listed on Natio	onal Hydric Soils List						
ļ										
Remarks:										
WETLAN	ND DETERMINATION	NC								
	(Circle)									
Hydrophy	tic Vegetation Preser	\	- 1		(Circle)					
Wetland I	Hydrology Present	Yes (No	Is This San	mpling Point in a Wet	tland Yes No					
Hydric Sc	oils Present	Yes (No)							
Remarks:										

Veolia ES Emerald Park Landfill December 1, 2005 Revised December 8, 2008 Wetland Determination and Delineation City of Muskego, Waukesha County, Wisconsin NRC Project # 05-235

APPENDIX B

MINUTES FROM WDNR FIELD MEETING; NOVEMBER 12. 2007



119 South Main Street | PO Box 128 | Cottage Grove, Wisconsin 53527-0128 Ph: 608.839.1998 | Fax: 608.839.1995

www.nrc-inc.net

MEETING MINUTES

SUBJECT: Wetland Boundary Review / Navigability Review – Emerald Park Landfill,	DATE/TIME: Monday, November 12, 2007 / 9:00 am				
Veolia ES					
PROJECT: Emerald Park Landfill Expansion	LOCATION: Emerald Park Landfill, Muskego, WI				
	Mr. Jay Warzinski, Veolia ES, Mr. James Dunham, Veolia onsulting, Inc., Mr. Douglas Genthe, RMT, Inc., Mr. Mark				

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

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

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

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

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

APPENDIX C

FSA AERIAL REVIEW

WETLAND DOCUMENTATION RECORD Remotely Sensed Data Summary

Site Identifi	ication No.			No.) /	for area previo	inity
Date	Rainfall (in)	Farm Service Age	ncy Aerial Color		_ • · · · · · · · · · · · · · · · · · ·	DOCTEDIO
	+D/N/W				W-5	
Mo./Yr)	(Apr-June ave.	Interpretation- (cod	es listed in box below)		
1990	= 1 4.44 (w)	Y 4 66.			<u>:</u>	
1991	3.62 (N)	Y 5 6a				
1992	1.77 (D)	Y 4 6h				
1993	· 5.73 (W)	Y 4, 66 -				 -
1994	$\frac{2.25}{}$ (D)	Y 3, bd with	shite (bone grow	end in edge:	<u> </u>	
1995	2.64 (N)	Y 5 60-				
1496	4.76 (W)	1 65 be				
1997	3.40(N)	7 5 bd	· · · · · · · · · · · · · · · · · · ·			
1999	7.90 (W)					
2000	5.39 (W)	Y 3 6.C	constanction	no of blomas	5 compost were be	egon to
2001	4.40 (W)	Y 5 6d	effecti	ing ilvainage	to w-5 are	<u></u>
2002	3.75 (N)	y 3 bd		- 		
2003	3.29 (N)	<u> </u>		<u> </u>		
1001	5.35 (W) 2.34 (D)	N				
2006	4.46 (W)	N		<u> </u>		
<u> </u>				V		
						<u> </u>
						
Sa Dhada						
ir Photo						
		•				
= signal indic R = cropped (ates wetness (+ = str row crop or tilled)	ong, - = weak)	N = NO wetness s NC = not cropped		lle, etc.)	
eature	Č	olor	Manipulation		<u>Other</u>	
= water	6	a = dark green	7a = ditched		write explanation	:
= mud flat		b = light green	7b = tiled			
= bare spot		= yellow	7c = filled			
= drowned cro	•	i = brown e = black	7d = tree/brush res 8 = plowed/tilled	movai		
= planted late	<u> </u>	- Oldok	0 - Programma		, i , , , , , , , , , , , , , , , , , ,	

Farm Service Agency Aerial Color Slide Review Veolia ES Emerald Park Landfill, LLC

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

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

	Monthly	y Rainfall in i	nches *					
Year	April	Мау	June	Total	Mean (April • May)	Relative Wetness	Cropped?	Wetness Signature?
1981	4.48	1.08	2.84	8.40	2.80	N		
1982	4.07	4.41	2.67	11.15	3.72	N		
1983	2.68	3.96	2.83	9.47	3.16	N		
1984	3.20	4.57	5.90	13.67	4.56	w		
1985	1.48	1.82	2.28	5.58	1.86	D		
1986	1.88	2.50	6.08	10.46	3.49	N		
1987	4.20	3.50	1.73	9.43	3.14	N		+ - -
1988	3.26	0.69	1.33	5.28	1:76	D		
1989	1.98	3.53	2.60	8.11	2.70	Ņ	n' unu.	
1990	1.98	5.49	5.84	13.31	4.44	w	CR	Y
1991	3.97	2:35	4.53	10.85	3.62	N	CR	Y
1992	2.82	0.93	1.55	5.30	1.77	D	CR	Y
1993	7.14	3.46	6.59	. 17.19	5.73	w	CR	Y
1994	1.26	. 1,30 · ·	4.20	6.76	2.25	D	CR	Y
1995	4.15	3.14	0.62	7.91	2.64	N	CR	Ÿ
1996	3.10	2.50	8.69	14.29	4.76	w	CR	Y
1997	1.48	3.45	5.26	10.19	3.40	N	CR	Y
1998	3.64	3.72	5.16	12.52	4.17	N	CR	Y
1999	6.38	5.23	6.10	17.71	5.90	w	CR	Y
2000	2.84	8.54	4.78	16.16	5.39	w	CR	Y
2001	3.80	4.79	4.61	13.20	4.40	w	CR	Y
2002	4.15	2.48	4.63	11.26	3.75	N	CR	Y
2003	1.97	7.14	2.56	11.67	3.89	N	CR	N
2004	2.43	10.40	3.23	16.06	5.35	w	CR	N
2005	1.32	4.03	1.67	7.02	2.34	D	CR	N
2006	4.30	5.70	3.38	13.38	4.46	w		N
					-	+		
30% chance less than	2.39	2.09	2.84	7.32	2.44		· · · · · ·	
								1 1 1 1
30 Year Average	3.25	3.14	3.99	10.38	3.46			
11.57495								
30% chance more than	3.77	3.81	4.98	12.56	4.19	•		

^{*} Oconomowoc Weather Station (476200), Waukesha County, Wisconsin

DRY NORMAL WET

Farm Service Agency Crop Compliance Slides

































