

Photograph pp153 view West



# Appendix B Wetland Delineation Data Forms – Midwest Region

Project/Site:	Rose Wind Repowe	er Project					City/County	: Mower County	1	Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Develo	pment					State	: MN	Sampling Point:	dp01
Investigator(s):	Andy Kranz							Section, Townsh	nip, Range: S 27, T 101N, R 16W	
Landform (hillslope	e, terrace, etc.):	Shoulde	er					Loc	al relief (concave, convex, none): d	concave
Slope (%):	2-5%	Lat:		43 526868	3		Long:		92.728685	Datum: NAD83
	e Clyde silty clay loar	n, 0 to 3 percent slop	pes				- <u>-</u>		NWI classif	ication: None
	ologic conditions on th						Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	N			lydrology	N	significantly dist	urbed?		nal Circumstances" present?	Yes X No
Are Vegetation	N			lydrology	Ν	naturally probler			, explain any answers in Remarks.	
	FINDINGS At	· · · · · · · · · · · · · · · · · · ·								,
	getation Present?		Yes	X		No		Sampled A	<b>202</b>	
Hydric Soil Pres			Yes	× ×		No		n a Wetland?		No
Wetland Hydrol			Yes	X X		No	within	i a wetana		
Remarks: PEM data point tak	xen for Wetland w01 v	which is located in a	roadside ditch. C	onditions drier t	than norm	al according to WE	rS analysis.			
VEGETATION	Use scientific	names of plant	s.							
Trop Stratum (Diat	t oize, 20' rediue)					Absolute	Dominant	Indicator		
Tree Stratum (Plot	i size. 30 Taulus)					% Cover	Species?	Status	Dominance Test worksheet	
1 2.									Number of Dominant Species	
								<u> </u>	That Are OBL, FACW, or FAC:	1 (0)
3								<u> </u>	That Ale ODL, FACW, OF FAC.	(A)
4 5								<u> </u>	Total Number of Dominant	
5.						·	= Total Cover		Species Across All Strata:	1 (B)
									Species Across Air Strata.	(B)
Sapling/Shrub Stra	tum (Plot size: 15' ra	dius)							Percent of Dominant Species	
1.									That Are OBL, FACW, or FAC:	100% (A/B)
2.										(//D)
3.										
4.									Prevalence Index worksheet	
5.										
0.							= Total Cover		Total % Cover of:	Multiply by:
									That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	t size: 5' radius)								OBL species 96%	x1 = 0.96
1. Carex stricta						95%	Yes	OBL	FACW species 10%	x2 = 0.2
2. Thalictrum das	ycarpum					5%	No	FACW	FAC species	x3 =
3. Pastinaca sativ	/a					3%	No	UPL	FACU species	x4 =
4. Phalaris arundi	inacea					3%	No	FACW	UPL species 3%	x5 = 0.15
5. Muhlenbergia n	mexicana					1%	No	FACW	Column Totals: 1.09	(A) 1 31 (B)
6. Asclepias incar	rnata					1%	No	OBL		
7. Salix interior						1%	No	FACW	Prevalence Index = E	B/A = 1.20
8.										
9.										
10.									Hydrophytic Vegetation Indic	ators
11.										
12.									X 1-Rapid Test for Hydro	phytic Vegetation
13.									X 2-Dominance Test is >	
14.									X 3-Prevalence Index is :	
15.									4-Morphological Adapta	ations <sup>1</sup> (Provide supporting
16.									data in Remarks or on	a separate sheet)
17.									Problematic Hydrophy	tic Vegetation <sup>1</sup> (Explain)
18.										
19.									<sup>1</sup> Indicators of hydric soil and we	tland hydrology must
20.									be present, unless disturbed or	problematic.
						109%	= Total Cover			
W										
	<u>ım</u> (Plot size: 30' rad	ius)							Hydrophytic	
1									Vegetation	
2.									Present? Yes	X No
							= Total Cover			
Demailies (1) 1										
Remarks: (Include	photo numbers here	or on a separate sh	eel.)							

SOIL						Sampling	Point: dp01	
Profile Des	cription: (Describe to	the depth needed	d to document the in	dicator or confirm the	e absence c	of indicators.)		
Depth	Matrix			ox Features		· · · · · · · · · · · · · · · · · · ·		
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
	<u></u>					·		
	Concentration, D=Depl	etion, RM=Reduce	d Matrix, CS=Covered	or Coated Sand Grain		ion: PL=Pore Lining, M		
	Indicators <sup>3</sup> :				Test	t Indicators of Hydric S		
	sol (A1)		Sandy Gleyed			Iron-Manganese		
	Epipedon (A2)		Sandy Redox				ark Surface (F22)	
	Histic (A3)		Stripped Matr	. ,		X Other (Explain i	n Remarks)	
	gen Sulfide (A4)		Dark Surface					
	ied Layers (A5)		Loamy Mucky					
	Muck (A10)	(111)	Loamy Gleye					
	ted Below Dark Surface Dark Surface (A12)	e (ATT)	Depleted Mat Redox Dark S			<sup>3</sup> Tho hydric soil indica	tors have been updated to	
	Mucky Mineral (S1)			k Surface (F7)		-	eld Indicators of Hydric Soils	
	Mucky Peat or Peat (S3	3)	Redox Depre			in the United States, Version 8.0, 2016.		
		·)						
	Layer (if observed):							
Type: Depth	(inches):				Hydric	Soil Present?	Yes X No	
	npled due to potential c							
HYDROL	.OGY							
-	drology Indicators:						/ · · · · · · · · · · · · · · · · · · ·	
	licators (minimum of on	e is required: chec					(minimum of two required)	
	ce Water (A1)			d Leaves (B9)		Surface Soil Cra		
	Vater Table (A2)		Aquatic Faun			Drainage Patter		
	ation (A3) Marks (B1)		True Aquatic	lfide Odor (C1)		Dry-Season Wa Crayfish Burrow		
	nent Deposits (B2)			zospheres on Living Ro	ote (C3)		le on Aerial Imagery (C9)	
	Deposits (B3)			Reduced Iron (C4)	1013 (03)		ssed Plants (D1)	
	Mat or Crust (B4)			Reduction in Tilled Soils	s (C6)	X Geomorphic Po		
	eposits (B5)		Thin Muck Su		(00)	X FAC-Neutral Te		
	ation Visible on Aerial I	magery (B7)	Gauge or We					
	ely Vegetated Concave			n in Remarks)				
Field Obser	rvations:							
	ater Present?	Yes No X	Depth (inches):	N/A				
Water Table		Yes No X						
Saturation F	Present?	Yes No X			nd Hydrolo	gy Present?	Yes X No	
(includes ca	apillary fringe)							
Describe Re	ecorded Data (stream	gauge, monitoring v	vell, aerial photos, pre	evious inspections), if a	vailable:			

Remarks:

Project/Site:	Rose Wind Repower F	Project				City/County:	Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Developm	ent				State	MN	Sampling Point:	dp02
Investigator(s):	Andy Kranz					5	Section, Townshi	p, Range: S 27, T 101N, R 16W	
Landform (hillslope	, terrace, etc.):	Shoulder					Loca	I relief (concave, convex, none): N	lone
Slope (%):	0%	Lat:	43 526882			Long:	-9		Datum: NAD83
Soil Map Unit Name	e Clyde silty clay loam, 0	to 3 percent slopes						NWI classif	cation: None
Are climatic / hydro	logic conditions on the s	ite typical for this time of	year?			Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	Ν,	Soil N	, or Hydrology	N si	gnificantly distu	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N ,	Soil N	, or Hydrology	N n	aturally problen	natic?	(If needed,	explain any answers in Remarks.	
SUMMARY OF	FINDINGS Attac	h site map showin	g sampling point lo	cations, tra	ansects, imp	portant featu	res, etc.		
	getation Present?	•	Yes	No	X		Sampled Ar	ea	
Hydric Soil Pres	-		Yes	No	X		a Wetland?		No <u>x</u>
Wetland Hydrol			Yes	No	Х				
Remarks:									
	aken along cornfield edg	e. Conditions drier than	normal according to WET	'S analysis.					
VEGETATION	Use scientific na	mes of plants.							
					Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test worksheet	
1				·					
2				·				Number of Dominant Species	
3								That Are OBL, FACW, or FAC:	0 (A)
4								Total Number of Deminent	
5				·		= Total Cover		Total Number of Dominant	2 (P)
						= Total Cover		Species Across All Strata:	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radiu	s)						Percent of Dominant Species	
1.	<u>tani</u> (Fist size: Fo Faala							That Are OBL, FACW, or FAC:	0% (A/B)
2.								That Are OBE, FACW, of FAC.	(A/B)
3.									
4.				· ·				Prevalence Index worksheet	
5.									
0.						= Total Cover		Total % Cover of:	Multiply by:
								That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	t size: 5' radius)							OBL species	x1 =
1. Zea mays			_		75%	Yes	UPL	FACW species	x2 =
2. Bromus inermis	3				25%	Yes	FACU	FAC species 12%	x3 = 0 36
3. Amaranthus rei	troflexus				10%	No	FACU	FACU species 35%	x4 = 1.4
4. Ambrosia trifida	3				10%	No	FAC	UPL species 75%	x5 = 3.75
5. Equisetum arve	ense				2%	No	FAC	Column Totals: 1.22	(A) 5 51 (B)
6.									
7.								Prevalence Index = E	/A = 4.52
8.									
9.									
10.								Hydrophytic Vegetation Indica	ators
11									
12.								1-Rapid Test for Hydro	phytic Vegetation
13.								2-Dominance Test is >	
14								3-Prevalence Index is ≤	
15									ations <sup>1</sup> (Provide supporting
16.								data in Remarks or on	
17								Problematic Hydrophyl	ic Vegetation <sup>1</sup> (Explain)
18								1	
19.								<sup>1</sup> Indicators of hydric soil and wet	
20								be present, unless disturbed or	problematic.
					122% :	= Total Cover			
	( <b>D</b> )								
	m (Plot size: 30' radius)	)						Hydrophytic	
1								Vegetation	
2								Present? Yes	No X
						= Total Cover			
Demail 11									
Remarks: (Include	photo numbers here or	un a separate sneet.)							

0-19*         10YR 2/1         100         Sitt Lea           19-24*         2.5Y 4/3         100         Sitty Cli	
19-24*       2.5Y 4/3       100       Silly Cit         **       2.5Y 4/3       100       Silly Cit         **       Silly Cit       Silly Cit       Silly Cit         **       Contrans       Silly Cit       Silly Cit         **       Contrans       Silly Cit       Silly Cit         **	xture Remarks
19-24*       2.5Y 4/3       100       Silly Cit         "Inper: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.       "Location: PL=         "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.       "Location: PL=         "Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.       "Location: PL=         "Histic Epipedon (A2)       Sandy Redox (S5)       Test Indicat         Histic Capedon (A2)       Sandy Redox (S6)       "Indicators".         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Redox Dark Surface (F6)       "The h         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       corr       corr       corr         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       corr       corr       corr         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F6)       "The h       Saturation of one is required: check all that apply)       in tase         Type:	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=         ydric Soil Indicators <sup>3</sup> :       Test Indicat         Histos C(A1)       Sandy Gleyed Matrix (S4)         Histos C(A3)       Stripped Matrix (S6)         Black Histic (A3)       Stripped Matrix (S6)         2 cm Mucky Mineral (F1)       Loamy Mucky Mineral (F1)         2 cm Mucky Mineral (S1)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F7)         2 cm Mucky Mineral (S1)       Depleted Dark Surface (F7)         5 cm Mucky Peat or Peat (S3)       Redox Depressions (F8)         estrictive Layer (if observed):       Type:         Type:	
Test Indicators <sup>3</sup> :         Test Indicators <sup>3</sup> :         Histic Sol (A1)         Histic Epigedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sort Mucky Peat or Peat (S3)       Redox Depressions (F8)         strictive Layer (if observed):         Type:	
Test Indicators <sup>2</sup> :         Test Indicators <sup>2</sup> :         Histic Sol (A1)         Histic Epipedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Thick Dark Surface (A11)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         strictive Layer (if observed):       Type:         Type:	
Test Indicators <sup>2</sup> :         Test Indicators <sup>2</sup> :         Histic Sol (A1)         Histic Epipedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Thick Dark Surface (A11)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         strictive Layer (if observed):       Type:         Type:	
Test Indicators <sup>2</sup> :         Test Indicators <sup>2</sup> :         Histic Sol (A1)         Histic Epipedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Thick Dark Surface (A11)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         strictive Layer (if observed):       Type:         Type:	
Test Indicators <sup>3</sup> :         Test Indicators <sup>3</sup> :         Histic Sol (A1)         Histic Epigedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Back Histic (A3)       Stratified Layers (A5)         2 cm Mucky Mineral (S1)       Depleted Matrix (F7)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sardy Mucky Mineral (S1)       Depleted Dark Surface (F7)         strictive Layer (if observed):       Type:         Type:       marks:         Hydric Soil Pre-         Back Histic (A3)       True Aquatic Fauna (B13)         Surface Water (A11)       Water-Staine C(C1)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Ofc1)         Sediment Deposits (B3)       Presence of Reduced Iron (C4)         Saturation (A3)       True Aquatic Plants (D1)         Dirt Deposits (B3)       P	
Test Indicators <sup>3</sup> :         Test Indicators <sup>3</sup> :         Histic Sol (A1)         Histic Epigedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sort Mucky Peat or Peat (S3)       Redox Depressions (F8)         strictive Layer (if observed):         Type:	
Histosol (A1)       Sandy Gleyed Matrix (S4)         Histic Epipedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Black Histic (A3)       Dark Surface (S7)         Strattlied Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Matrix (F3)         Strictive Layer (If observed):       Type:         Type:       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Depressions (F8)         strictive Layer (If observed):       Type:         Type:       Depth (inches):         High Water Table (A2)       Aquatic Fauna (B13)         Strictive Layer (If observed):       True Aquatic Fauna (B13)         Strictive Layer (If observed):       True Aquatic Fauna (B13)         Strictive Layer (If observed):       Strictive Layer (If observed):         Type:       Depth (inches):       Mydric Soil Pre         Marks (B1)       Hydrology Indicators:       Hydric Soil Pre         Strictive Layer (If observed):       True Aquatic Fauna (B13)       Strictive Layer (If observed):         Strictive (A2)       Aquatic Fauna (B13)       Strice Fauna (B14) <td>Pore Lining, M=Matrix.</td>	Pore Lining, M=Matrix.
Histic Epipedon (A2)       Sandy Redox (S5)         Black Histic (A3)       Stripped Matrix (S6)         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loarny Mucky Mineral (F1)         2 om Muck (A10)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sort Mucky Peat or Peat (S3)       Redox Depressions (F8)         strictive Layer (if observed):       Type:         Type:       Depleted Indicators:         Imarks:       Hydric Soil Pre-         Parks:       Hydric Soil Pre-         Mater Table (A2)       Aquatic Fanna (B13)         Saturation (A3)       True Aquatic Flants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Water Marks (B1)       Hydrogen Sulfide Codor (C1)         Sediment Deposits (B2)       Oxid/Laze Africace (A77)         Dirth Deposits (B5)       Thin Muck Surface (C7)         Innordation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Mid Observations:       Inface Nater (Present? <t< td=""><td>ors of Hydric Soils:</td></t<>	ors of Hydric Soils:
Black Histic (A3)       Stripped Matrix (S6)       i         Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Stratified Layers (A5)       Redox Dark Surface (F6)         S of Mucky Peat or Peat (S3)       Redox Depressions (F8)         strictive Layer (if observed):       Type:         Type:       Peptet Dark Surface (F7)         Depth (inches):       Hydric Soil Pre         Depth (inches):       Hydric Soil Pre         mary Indicators (minimum of one is required: check all that apply)       Secon         Surface Water (A1)       Water-Stained Leaves (B9)       True Aquatic Fauna (B13)         Sturiation (A3)       True Aquatic Fauna (B13)       I         Saturation (A3)       True Aquatic Fauna (B14)       I         Water Marks (B1)       Hydrogens on Living Roots (C3)       I         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       I         Innudation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Med bervetions:       Iria The Present?       Yes       <	Iron-Manganese Masses (F12)
Hydrogen Sulfide (A4)       Dark Surface (S7)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Depleted Matrix (F2)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F7)         Standy Mucky Mineral (S1)       Depleted Dark Surface (F7)         5 cm Mucky Peat or Peat (S3)       Redox Depressions (F8)         in t       strictive Layer (if observed):         Type:	Very Shallow Dark Surface (F22)
Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> The h         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       cor         5 cm Mucky Peat or Peat (S3)       Redox Depressions (F8)       in th         strictive Layer (if observed):       Type:	Other (Explain in Remarks)
2 cm Muck (A10)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)         Thick Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> The h         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       in t         strictive Layer (if observed):       Type:	
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> The h         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       cor         5 cm Mucky Peat or Peat (S3)       Redox Depressions (F8)       in t         strictive Layer (if observed):       Type:	
Thick Dark Surface (A12)       Redox Dark Surface (F6) <sup>3</sup> The h         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       cor         s cr Mucky Peat or Peat (S3)       Redox Depressions (F8)       in t         strictive Layer (if observed):       Type:	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) cor 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) in t int intervel in the second	
	ydric soil indicators have been updated to
strictive Layer (if observed):       Type:	nply with the Field Indicators of Hydric Soils
Type:	he United States, Version 8.0, 2016.
Type:	
Depth (inches):	
Anarks:         /DROLOGY         stand Hydrology Indicators:         imary Indicators (minimum of one is required: check all that apply)       Secon         Surface Water (A1)       Water-Stained Leaves (B9)       Secon         High Water Table (A2)       Aquatic Fauna (B13)       Image: Saturation (A3)       Image: Saturation (C4)	esent? Yes No X
Surface Vater (A1)       Water-Stained Leaves (B9)       Second         High Water Table (A2)       Aquatic Fauna (B13)       Image: Conduct Plants (B14)         Saturation (A3)       True Aquatic Plants (B14)       Image: Conduct Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Image: Conduct Plants (B14)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Image: Conduct Plants (B14)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Image: Conduct Plants (B14)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Image: Conduct Plants (B14)         Iron Deposits (B5)       Thin Muck Surface (C7)       Image: Conduct Plants (B14)         Iron Deposits (B5)       Thin Muck Surface (C7)       Image: Conduct Plants (B14)         Iron Deposits (B5)       Thin Muck Surface (C7)       Image: Conduct Plants (B14)         Iron Deposits (B5)       Thin Muck Surface (C7)       Image: Conduct Plants (C6)         Iran Present?       Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A       Wetland Hydrology Presentent Plants (S12)	
Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       No         urface Water Present?       Yes       No         Yes       No       X       Depth (inches):         N/A       Thin Chroses):       N/A         Atter Table Present?       Yes       No         No       X       Depth (inches):       N/A         Metland Hydrology Prese       No       X       Depth (inches):         ecribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Sections)	dan (Indiantoro (minimum of two required)
High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       urface Water Present?       Yes         urface Water Present?       Yes       No       X         Autoriation Present?       Yes       No       X         Depth (inches):       N/A       Wetland Hydrology Presence         reludes capillary fringe)       escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	dary Indicators (minimum of two required) Surface Soil Cracks (B6)
Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       No       X         urface Water Present?       Yes       No         Yes       No       X       Depth (inches):         Maturation Present?       Yes       No       X         Acter Table Present?       Yes       No       X         Includes capillary fringe)       Bepth (inches):       N/A         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drainage Patterns (B10)
Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       No         urface Water Present?       Yes       No         Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         eater Table Present?       Yes       No       X       Depth (inches):       N/A         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Seconded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Drainage Patterns (BT0) Dry-Season Water Table (C2)
Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       No         urface Water Present?       Yes         Yes       No         Aturation Present?       Yes         No       X         Depth (inches):       N/A         Ves       No         Autration Present?       Yes         No       X         Depth (inches):       N/A         Vetland Hydrology Present?       Yes         ncludes capillary fringe)       No         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Crayfish Burrows (C8)
Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       urface Water Present?         urface Water Present?       Yes         No       X       Depth (inches):         vater Table Present?       Yes         No       X       Depth (inches):         ncludes capillary fringe)       No         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)         Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:	Stunted or Stressed Plants (D1)
Iron Deposits (B5)       Thin Muck Surface (C7)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       Ves       No       X       Depth (inches):       N/A         ater Table Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         wetland Hydrology Present       Yes       No       X       Depth (inches):       N/A         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Stream gauge, monitoring well, aerial photos, previous inspections), if available:	FAC-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         eld Observations:       urface Water Present?       Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         hcludes capillary fringe)       escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	AC-Neural Test (D5)
eld Observations:       Ves       No       X       Depth (inches):       N/A         later Table Present?       Yes       No       X       Depth (inches):       N/A         later Table Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         includes capillary fringe)       escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
urface Water Present?       Yes       No       X       Depth (inches):       N/A         /ater Table Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A       Wetland Hydrology Presenting         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Value       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         aturation Present?       Yes       No       X       Depth (inches):       N/A         wetland Hydrology Present       No       X       Depth (inches):       N/A       Wetland Hydrology Present         escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Stream gauge       Stream gauge	
Aturation Present?       Yes       No       X       Depth (inches):       N/A       Wetland Hydrology Present         includes capillary fringe)       escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       If available:	
ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
	ent? YesNo <u>X</u>
emarks:	ent? YesNoX
emarks:	ent? YesNo <u>X</u>
iemarks:	ent? Yes No X
	ent? Yes NoX
	ent? Yes NoX
	ent? Yes NoX

Project/Site:	Rose Wind Repower Project	ct				City/County:	Mower County		S	ampling Date: 7/20	6/2021
Applicant/Owner:	Con Edison Development					State	MN	Sampling Point:		dp03	
Investigator(s):	Andy Kranz						Section, Townshi	p, Range: S 25, T 101	N, R 16W		
Landform (hillslope		Shoulder						I relief (concave, conv		ncave	
Slope (%):		Lat:	43 529011	1		Long:		92.699941		Datum: NAD83	
	e Clyde silty clay loam, 0 to 3								NWI classifica		
	blogic conditions on the site ty		vear?			Yes	No	X (If no, explain ir		<u></u>	
Are Vegetation	N , Soil		, or Hydrology	N	significantly dist	-		al Circumstances" pre		Yes <u>X</u> No	
Are Vegetation	N , Soil	N	, or Hydrology	N	naturally probler			explain any answers i			
	FINDINGS Attach si							explain any answers	n Kenarka.)		
		ite map showing									
	getation Present?		Yes x		No		Sampled Ar		Vee v	No	
Hydric Soil Pres Wetland Hydrol			Yes <u>x</u> Yes x		No No	within	a Wetland?		Yes <u>x</u>	No	.
	logy i lesent:			1	···						
Remarks: PEM data point for	Wetland w02 located in road	side ditch. Condition	s drier than normal acco	ording to WE	TS analysis.						
VEGETATION	Use scientific name	s of plants.			Absolute	Dominant	Indicator				
Tree Stratum (Plot	t size: 30' radius)				% Cover	Species?	Status	Dominance Test w	orksheet		
1.	· · · · · · · ,				70 00001	0000001	Oldido	Dominance rest w	ontoneet		
2.								Number of Dominan	t Species		
3.								That Are OBL, FAC		1	(A)
4.										-	
5.								Total Number of Do	minant		
· · · · · · · · · · · · · · · · · · ·						= Total Cover		Species Across All		1	(B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)							Percent of Dominan	t Species		
1.								That Are OBL, FAC	N, or FAC:	100%	(A/B)
2.											—
3.											
4.								Prevalence Index w	orksheet		
5.											
						= Total Cover		Total % Cov	/er of:	Multiply I	by:
								That Are OBL, FAC	V, or FAC:		A/B
Herb Stratum (Plo	t size: 5' radius)		=					OBL species	75%	x1 =	75
1. Carex stricta					55%	Yes	OBL	FACW species	5%	x2 =0.	.1
2. Persicaria amp	hibia				20%	No	OBL	FAC species	16%		48
3. Carex molesta					15%	No	FAC	FACU species	5%	x4 = 0.	.2
4. Elymus repens					5%	No	FACU	UPL species		x5 =	
5. Spartina pectin	ata				5%	No	FACW	Column Totals:	1.01	(A) 1	53 (B)
6. Poa pratensis					1%	No	FAC				
7								Prevalen	ce Index = B/A	A = 1.51	
8											
9											
10								Hydrophytic Veget	ation Indicate	ors	
11											
12								X 1-Rapid Te			
13								X 2-Dominan			
14								x 3-Prevalen			
15										ions <sup>1</sup> (Provide supp	Jorting
16.										separate sheet)	(-i)
17								Problemati	c Hydrophytic	· Vegetation <sup>1</sup> (Expl	ain)
18								1 maliantena at humbia			
19								<sup>1</sup> Indicators of hydric			1
20								be present, unless of	isturbed or pr	oblematic.	
					101%	= Total Cover					
Weet Victor											
	m (Plot size: 30' radius)							Hydrophytic			l
1								Vegetation	<b>.</b> .		
2								Present?	Yes >	× No	
						= Total Cover					
Demarka (k. k.	abata anakasi burun							1			
Remarks: (Include	photo numbers here or on a	separate sneet.)									

Profile Description: (Describe to the depth n		Sampling Point: dp03
	eeded to document the indicator or confirm the ab	sence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
·		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re	educed Matrix, CS=Covered or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators <sup>3</sup> :		Test Indicators of Hydric Soils:
Histosol (A1)	Sandy Gleyed Matrix (S4)	Iron-Manganese Masses (F12)
Histic Epipedon (A2)	Sandy Redox (S5)	Very Shallow Dark Surface (F22)
Black Histic (A3)	Stripped Matrix (S6)	X Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Dark Surface (S7)	
Stratified Layers (A5)	Loamy Mucky Mineral (F1)	
2 cm Muck (A10)	Loamy Gleyed Matrix (F2)	
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	
Thick Dark Surface (A12)	Redox Dark Surface (F6)	<sup>3</sup> The hydric soil indicators have been updated to
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	comply with the Field Indicators of Hydric Soils
5 cm Mucky Peat or Peat (S3)	Redox Depressions (F8)	in the United States, Version 8.0, 2016.
Restrictive Layer (if observed):		
Туре:		
Depth (inches):	—	Hydric Soil Present?         Yes X         No
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required:		Let a serie de la serie de
		Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         (C3)       Saturation Visible on Aerial Imagery (C9)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4)	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Thin Muck Surface (C7) Gauge or Well Data (D9)	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Thin Muck Surface (C7) Gauge or Well Data (D9)	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? YesN	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6 Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         Io       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         (C3)       Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         KAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         Io       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         No       X         Depth (inches):       N/A         No       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         Io       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)
Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Naturation Present?       Yes         Notice Concoded Data (stream gauge, monitor)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         No       X         Depth (inches):       N/A         No       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         No       X         Depth (inches):       N/A         No       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)
Surface Water (A1)         High Water Table (A2)         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)         Inundation Visible on Aerial Imagery (B7)         Sparsely Vegetated Concave Surface (B8         Field Observations:         Surface Water Present?       Yes         Water Table Present?       Yes         Naturation Present?       Yes         Notice Concoded Data (stream gauge, monitor)	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         No       X         Depth (inches):       N/A         No       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         No       X         Depth (inches):       N/A         No       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8 Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N Saturation Present? Yes N Saturation Present? Yes N Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitor	Water-Stained Leaves (B9)         Aquatic Fauna (B13)         True Aquatic Plants (B14)         Hydrogen Sulfide Odor (C1)         Oxidized Rhizospheres on Living Roots         Presence of Reduced Iron (C4)         Recent Iron Reduction in Tilled Soils (C6)         Thin Muck Surface (C7)         Gauge or Well Data (D9)         Other (Explain in Remarks)         No       X         Depth (inches):       N/A         No       X         Depth (inches):       N/A	Surface Soil Cracks (B6)         Drainage Patterns (B10)         Dry-Season Water Table (C2)         Crayfish Burrows (C8)         Saturation Visible on Aerial Imagery (C9)         Stunted or Stressed Plants (D1)         6)       X         Geomorphic Position (D2)         X       FAC-Neutral Test (D5)

Project/Site:	Rose Wind Repower F	Project			City/County	: Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Developm	ient			State	: MN	Sampling Point:	dp04
Investigator(s):	Andy Kranz					Section, Townsh	ip, Range: <u>S 25, T 101N, R 16W</u>	
Landform (hillslope,	, terrace, etc.):	Shoulder				Loca	I relief (concave, convex, none): <u>c</u>	oncave
Slope (%):	1-3%	Lat:	43 529004		Long:	-(	92.700978	Datum: NAD83
Soil Map Unit Name	e Tripoli clay loam, 0 to 2	2 percent slopes					NWI classifi	cation: None
Are climatic / hydrol	logic conditions on the s	site typical for this time of	year?		Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	<u>N</u>	Soil N	, or Hydrology	significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	<u>N</u>	Soil N	, or Hydrology	naturally probler	natic?	(If needed,	explain any answers in Remarks.)	)
SUMMARY OF	FINDINGS Attac	ch site map showing	g sampling point locat	ions, transects, im	portant featu	ires, etc.		
Hydrophytic Veg	getation Present?		Yes x	No	Is the	Sampled Ar	ea	
Hydric Soil Pres	sent?		Yes	No X	within	n a Wetland?	Yes	No x
Wetland Hydrol	ogy Present?		Yes	No X				
Remarks: Upland data point ta	aken in roadside ditch. (	Conditions drier than norm	nal according to WETS analys	sis.				
VEGETATION ·	Use scientific na	ames of plants.					1	
Trop Stratum (Diat	aiza: 20' radiua)			Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30 radius)			% Cover	Species?	Status	Dominance Test worksheet	
1 2.							Number of Dominant Species	
3.							That Are OBL, FACW, or FAC:	2 (A)
4.							That Ale ODE, I AOW, OF I AO.	(^)
5.							Total Number of Dominant	
					= Total Cover		Species Across All Strata:	3 (B)
								()
Sapling/Shrub Strat	tum (Plot size: 15' radiu	s)					Percent of Dominant Species	
1.							That Are OBL, FACW, or FAC:	67% (A/B)
2.								
3.								
4							Prevalence Index worksheet	
5.								
[					= Total Cover		Total % Cover of: That Are OBL, FACW, or FAC:	Multiply by:
Herb Stratum (Plot	size: 5' radius)						OBL species	x1 =
1. Poa pratensis			_	50%	Yes	FAC	FACW species	x2 =
2. Andropogon ge	erardii			20%	Yes	FAC	FAC species 70%	x3 = 2.1
3. Elymus repens				20%	Yes	FACU	FACU species 23%	x4 = 0 92
4. Asclepias vertic	cillata			3%	No	FACU	UPL species	x5 =
5.							Column Totals: 0.93	(A) 3 02 (B)
6.								
7.							Prevalence Index = B	/A = 3.25
8.								
9.								
10							Hydrophytic Vegetation Indica	ators
11								
12.							1-Rapid Test for Hydrop	
13.							2-Dominance Test is >5 3-Prevalence Index is ≤	
14								ations <sup>1</sup> (Provide supporting
15							data in Remarks or on	
16 17.								ic Vegetation <sup>1</sup> (Explain)
18.								
19.							<sup>1</sup> Indicators of hydric soil and wet	land hydrology must
20.							be present, unless disturbed or	problematic.
				93%	= Total Cover			
Woody Vine Stratur	m (Plot size: 30' radius	)					Hydrophytic	
1							Vegetation	
2							Present? Yes	X No
					= Total Cover			
Remarks: (Include	photo numbers here or	on a separate sheet.)						

SOIL								ling Point:	
rofile Descri	iption: (Describe to t	the depth nee	ded to document th	ne indicator or c	onfirm the a	bsence o	f indicators.)		
epth	Matrix	-		Redox Features					
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	R	emarks
					<u> </u>				
					·				
					···········				
ype: C=Co	ncentration, D=Deplet	ion, RM=Redu	iced Matrix, CS=Cov	vered or Coated S	Sand Grains.	<sup>2</sup> Locati	on: PL=Pore Lining,	M=Matrix.	
dric Soil In	dicators <sup>3</sup> :					Test	Indicators of Hydri		
Histosol				leyed Matrix (S4)				ese Masses (F	
	pipedon (A2)			edox (S5)				/ Dark Surface (	(F22)
Black Hi	. ,		```	Matrix (S6)			Other (Explai	in in Remarks)	
	n Sulfide (A4)			face (S7)					
	Layers (A5)			lucky Mineral (F1	-				
_ 2 cm Mu				leyed Matrix (F2)	)				
-	d Below Dark Surface	(A11)	·	Matrix (F3)			3 <del></del>		and the data data
	ark Surface (A12)			ark Surface (F6)			<sup>3</sup> The hydric soil ind		•
Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)				Dark Surface (F epressions (F8)	()	comply with the in the United St		-	
estrictive La	ayer (if observed):								
Туре:									
Type: Depth (in emarks:		ried utilities. S	oils assumed to not	be hydric based o	on lack of hy		Soil Present?	Yes	No
Type: Depth (in marks: ils not samp	ches):	ried utilities. S	oils assumed to not	be hydric based o	on lack of hy				<u>No</u>
Type: Depth (in marks: ils not samp	ches):	ried utilities. S	oils assumed to not	be hydric based o	on lack of hy				<u>No</u>
Type: Depth (in marks: ils not samp YDROLC etland Hydr	ches): led due to potential bu		neck all that apply)				d hydrophytic vegeta	ation.	
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica	ches): led due to potential bu DGY rology Indicators:		neck all that apply)	be hydric based o			d hydrophytic vegeta	ation.	
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface	ches): led due to potential bu DGY rology Indicators: ators (minimum of one		neck all that apply) Water-St				d hydrophytic vegeta	ation. Drs (minimum of Cracks (B6)	
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface	ches): led due to potential bu OGY rology Indicators: ators (minimum of one Water (A1) iter Table (A2)		neck all that apply) Water-St Aquatic F	ained Leaves (BS	9)		d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat	ation. Drs (minimum of Cracks (B6)	two required)
Type: Depth (in marks: ils not samp YDROLO etland Hydr rimary Indica Surface High Wa Saturatio	ches): led due to potential bu OGY rology Indicators: ators (minimum of one Water (A1) iter Table (A2)		neck all that apply) Water-St Aquatic F True Aqu	ained Leaves (B9 auna (B13) latic Plants (B14) n Sulfide Odor (C	9)	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C:	two required)
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimer	ches): led due to potential bu DGY ology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2)		neck all that apply) Water-St Aquatic F True Aqu	ained Leaves (B9 auna (B13) atic Plants (B14)	9)	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pal Dry-Season 1 Crayfish Bur	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C:	two required)
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimer	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1)		neck all that apply) Water-St Aquatic F True Aqu Hydroger Oxidized	ained Leaves (B9 auna (B13) latic Plants (B14) n Sulfide Odor (C	9) :1) h Living Root	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season Crayfish Burr Saturation Vi Stunted or St	ation. prs (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants (	two required) 2) magery (C9)
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep	ches): led due to potential bu DGY ology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2)		neck all that apply) Water-St Aquatic F True Aqu Hydrogen Oxidized Presence Recent In	ained Leaves (BS auna (B13) atic Plants (B14) n Sulfide Odor (C Rhizospheres or e of Reduced Iron on Reduction in	9) 1) n Living Root n (C4)	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season Crayfish Burr Saturation Vi Stunted or St	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C2 rows (C8) isible on Aerial I	two required) 2) magery (C9)
Type: Depth (in emarks: iils not samp YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3)		neck all that apply) Water-St Aquatic F True Aqu Hydrogen Oxidized Presence Recent In	ained Leaves (BS Fauna (B13) natic Plants (B14) n Sulfide Odor (C Rhizospheres or e of Reduced Iron	9) 1) n Living Root n (C4)	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season Crayfish Burr Saturation Vi Stunted or St	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) tt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im	is required: ch	neck all that apply) Water-St Aquatic F True Aqu Hydrogel Oxidized Presence Recent In Thin Muc Gauge o	ained Leaves (BS auna (B13) natic Plants (B14) n Sulfide Odor (C Rhizospheres or of Reduced Iron on Reduction in k Surface (C7) r Well Data (D9)	9) h Living Root h (C4) Tilled Soils ((	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season ' Crayfish Burr Saturation Vi Stunted or Si Geomorphic	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)
Type: Depth (in marks: ils not samp YDROLC etland Hydr rimary Indica Surface High Wa Saturatic Water M Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	is required: ch	neck all that apply) Water-St Aquatic F True Aqu Hydrogel Oxidized Presence Recent In Thin Muc Gauge o	ained Leaves (BS auna (B13) natic Plants (B14) n Sulfide Odor (C Rhizospheres or of Reduced Iron on Reduction in k Surface (C7)	9) h Living Root h (C4) Tilled Soils ((	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season 1 Crayfish Burr Saturation Vi Stunted or Si Geomorphic	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)
Type: Depth (in emarks: bils not samp YDROLC Yetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	Ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) tt or Crust (B4) posits (B5) on Visible on Aerial Im v Vegetated Concave S	is required: ch	neck all that apply) Water-St Aquatic F True Aqu Hydrogel Oxidized Presence Recent In Thin Muc Gauge o	ained Leaves (BS auna (B13) natic Plants (B14) n Sulfide Odor (C Rhizospheres or of Reduced Iron on Reduction in k Surface (C7) r Well Data (D9)	9) h Living Root h (C4) Tilled Soils ((	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season 1 Crayfish Burr Saturation Vi Stunted or Si Geomorphic	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)
Type: Depth (in emarks: bils not samp YDROLC Vetland Hydr Primary Indica Surface High Wa Saturatic Saturatic Vater M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im v Vegetated Concave S attions:	is required: ch	neck all that apply) Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge of Other (Es	ained Leaves (BS auna (B13) natic Plants (B14) n Sulfide Odor (C Rhizospheres or of Reduced Iron on Reduction in k Surface (C7) r Well Data (D9) splain in Remarks	9) h Living Root h (C4) Tilled Soils ((	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season 1 Crayfish Burr Saturation Vi Stunted or Si Geomorphic	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)
Type: Depth (in emarks: bils not samp YDROLC /etland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely ield Observa	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im v Vegetated Concave S ations: r Present? Present?	is required: ch hagery (B7) Surface (B8) Yes <u>No</u>	heck all that apply) Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge o Other (E: X Depth (incl X	ained Leaves (BS auna (B13) latic Plants (B14) n Sulfide Odor (C Rhizospheres or of Reduced Iron on Reduction in k Surface (C7) r Well Data (D9) cplain in Remarks nes): N/A	9) h Living Root h (C4) Tilled Soils ((	drology an	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season 1 Crayfish Burr Saturation Vi Stunted or Si Geomorphic	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)
Type: Depth (in emarks: bils not samp YDROLC /etland Hydr Primary Indica Surface High Wa Saturatic Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Surface Wate	ches): led due to potential bu DGY rology Indicators: ators (minimum of one Water (A1) tter Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im v Vegetated Concave S ations: r Present? Present?	is required: ch agery (B7) Surface (B8) YesNo	heck all that apply) Water-St Aquatic F True Aqu Hydroger Oxidized Presence Recent In Thin Muc Gauge o Other (E: X Depth (incl X	ained Leaves (BS auna (B13) latic Plants (B14) n Sulfide Odor (C Rhizospheres or of Reduced Iron on Reduction in k Surface (C7) r Well Data (D9) cplain in Remarks nes): N/A	9) n Living Root n (C4) Tilled Soils ((	drology an s (C3) C6)	d hydrophytic vegeta Secondary Indicato Surface Soil Drainage Pat Dry-Season 1 Crayfish Burr Saturation Vi Stunted or Si Geomorphic	ation. ors (minimum of Cracks (B6) tterns (B10) Water Table (C: rows (C8) isible on Aerial I tressed Plants ( Position (D2)	two required) 2) magery (C9)

Remarks:

Project/Site:	Rose Wind Repower Project					City/County	Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Development					State	MN	Sampling Point:	dp05
Investigator(s):	Andy Kranz					5	Section, Townshi	ip, Range: S 26, T 101N, R 16W	
Landform (hillslope	, terrace, etc.):	Shoulder					Loca	al relief (concave, convex, none): C	oncave
Slope (%):	0% La	t:	43 528965			Long:	-	92.71729	Datum: NAD83
Soil Map Unit Name	e Skyberg silt loam, 0 to 3 perce	ent slopes						NWI classifi	cation: None
Are climatic / hydro	logic conditions on the site typic	cal for this time of y	ear?			Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	N , Soil	Ν	, or Hydrology	Ν	significantly distu	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N , Soil	Ν	, or Hydrology	Ν	naturally problem	natic?	(If needed,	, explain any answers in Remarks.)	
SUMMARY OF	FINDINGS Attach site	map showing	sampling point lo	cations,	, transects, im	portant featu	res, etc.		
Hydrophytic Ve	getation Present?		Yes x		No	Is the	Sampled Ar	ea	
Hydric Soil Pres	-		Yes X	I	No		a Wetland?		No
Wetland Hydrol	ogy Present?		Yes x	I	No				
Remarks: PEM data point for	Wetland w03 located in roadsic	le ditch. Conditions	drier than normal acco	rding to WI	ETS analysis.				
VEGETATION	Use scientific names of	of plants.						1	
Trop Stratum (Diat	aiza, 20' radiua)				Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30 radius)				% Cover	Species?	Status	Dominance Test worksheet	
1 2.								Number of Dominant Species	
3.								That Are OBL, FACW, or FAC:	2 (A)
4								mat Ale ODE, I AOW, OF I AO.	(^)
5.								Total Number of Dominant	
						= Total Cover		Species Across All Strata:	2 (B)
								-,	( //
Sapling/Shrub Stra	tum (Plot size: 15' radius)							Percent of Dominant Species	
1.								That Are OBL, FACW, or FAC:	100% (A/B)
2.									
3.									
4.								Prevalence Index worksheet	
5.									
						= Total Cover		Total % Cover of:	Multiply by:
Harb Stratum (Diat	aiza, E' radiua)							That Are OBL, FACW, or FAC:	
Herb Stratum (Plot	·		-		50%	¥	EA CIA/	OBL species 20%	x1 = 0.2
<ol> <li>Phalaris arundi</li> <li>Carex trichocar</li> </ol>					50% 20%	Yes Yes	FACW OBL	FACW species 50% FAC species 5%	$x^2 = 1$ $x^3 = 0.15$
3. Pastinaca sativ					5%	No	UPL	FACU species 5%	
4. Poa pratensis	ŭ					No	FAC	UPL species 5%	x5 = 0 25
5.								Column Totals: 0.80	(A) 1.6 (B)
6.									()
7.								Prevalence Index = B	/A = 2.00
8.									
9.									
10.								Hydrophytic Vegetation Indica	itors
11									
12.								X 1-Rapid Test for Hydrop	ohytic Vegetation
13.								X 2-Dominance Test is >5	
14								x 3-Prevalence Index is ≤	
15									tions <sup>1</sup> (Provide supporting
16.								data in Remarks or on	
17								Problematic Hydrophyt	c vegetation (Explain)
18								<sup>1</sup> Indicators of hydric soil and wet	and hydrology must
19									
20					80%	= Total Cover		be present, unless disturbed or	
					00 /0				
Woody Vine Stratu	m (Plot size: 30' radius)							Hydrophytic	
1.	,							Vegetation	
2.									X No
						= Total Cover			
Remarks: (Include	photo numbers here or on a se	parate sheet.)							

	cription: (Describe to	the depth needed			onfirm the a	bsence of i	indicators.)	
Depth	Matrix			dox Features	1			
(inches)	Color (moist)	<u>%</u> (	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
<sup>1</sup> Type: C=0	Concentration, D=Deple	etion, RM=Reduced	Matrix, CS=Covere	d or Coated	Sand Grains.	<sup>2</sup> Locatior	n: PL=Pore Lining	, M=Matrix.
	Indicators <sup>3</sup> :	· · ·					ndicators of Hydr	
Histos	ol (A1)		Sandy Gleve	ed Matrix (S4)	)		-	nese Masses (F12)
	Epipedon (A2)		Sandy Redo		,	-		v Dark Surface (F22)
						-		
	Histic (A3)		Stripped Ma			-	X Other (Expla	ain in Remarks)
	gen Sulfide (A4)		Dark Surface					
Stratifi	ed Layers (A5)		Loamy Muck	ky Mineral (F1	)			
2 cm N	/luck (A10)		Loamy Gley	ed Matrix (F2)	)			
Deplet	ed Below Dark Surface	e (A11)	Depleted Ma	atrix (F3)				
Thick I	Dark Surface (A12)		Redox Dark	Surface (F6)		:	<sup>3</sup> The hydric soil ind	dicators have been updated to
Sandv	Mucky Mineral (S1)			irk Surface (F	7)		-	e Field Indicators of Hydric Soils
	lucky Peat or Peat (S3	3	Redox Depr	-	- /			<i>tates</i> , Version 8.0, 2016.
		)						
Restrictive	Layer (if observed):							
Type:								
Depth (	inches):					Hydric S	oil Present?	Yes X No
Remarks:								
	002							
HYDROL	UGI							
Wetland Hy	drology Indicators:							
Primary Indi	icators (minimum of on	e is required: check	all that apply)				Secondary Indicat	ors (minimum of two required)
Surfac	e Water (A1)		Water-Stain	ed Leaves (B	9)		Surface Soil	Cracks (B6)
High V	Vater Table (A2)		Aquatic Fau	na (B13)		-	Drainage Pa	atterns (B10)
°	tion (A3)			Plants (B14)	)	-		Water Table (C2)
	Marks (B1)			ulfide Odor (C		-	Crayfish Bur	( )
	ent Deposits (B2)			izospheres or		- (C2)		isible on Aerial Imagery (C9)
				-	-	s (03)		
	eposits (B3)			Reduced Iror		-		Stressed Plants (D1)
	Nat or Crust (B4)			Reduction in	Tilled Soils (C	-(6)		Position (D2)
Iron De	eposits (B5)		Thin Muck S			-	X FAC-Neutra	l Test (D5)
Inunda	tion Visible on Aerial Ir	magery (B7)	Gauge or W	ell Data (D9)				
Sparse	ely Vegetated Concave	Surface (B8)	Other (Expla	in in Remark	s)			
Field Obser		.,,						
	ter Present?	Yes No X	Depth (inches					
Water Table	e Present?	Yes No X	Depth (inches	): N/A				
Saturation F	Present?	Yes No X	Depth (inches	): <u>N/A</u>	Wetland	l Hydrology	Present?	Yes X No
(includes ca	pillary fringe)							
Describe Re	ecorded Data (stream o	gauge, monitoring we	ell, aerial photos, pi	evious inspec	ctions), if ava	ilable:		
Remarks:								

Project/Site:	Rose Wind Repowe	r Project				City/Count	y: Mower County	1	S	ampling Date:	7/26/2021
Applicant/Owner:	Con Edison Develop	oment				State	e: MN	Sampling Point	:	dp06	
Investigator(s):	Andy Kranz						Section, Townsh	nip, Range: S 26, T 10	1N, R 16W		
Landform (hillslope	e, terrace, etc.):	Shoulder					Loc	al relief (concave, con	vex, none): co	ncave	
Slope (%):	0%	Lat:	43 52896	5		Long:	-	92.717728		Datum: NAD	)83
	e Tripoli clay loam, 0 t	o 2 percent slopes							NWI classific	ation: None	e
Are climatic / hydro	ologic conditions on th	e site typical for this time	of year?			Yes	No	X (If no, explain	n Remarks.)		
Are Vegetation	Ν	, Soil N	, or Hydrology	Ν	significantly dis	turbed?	Are "Norm	nal Circumstances" pre	esent?	Yes X	No
Are Vegetation	N	, Soil N	, or Hydrology	Ν	naturally proble	matic?	(If needed	l, explain any answers	in Remarks.)		
SUMMARY OF	FINDINGS Att	ach site map show	ing sampling point I	ocation	s, transects, im	portant feat	ures, etc.				
	getation Present?		Yes		No x		e Sampled A	rea			
Hydric Soil Pre			Yes		No x	-	n a Wetland		Yes	No <u>x</u>	<
Wetland Hydro	logy Present?		Yes		No X	-					
Remarks: Upland data point l	located in roadside dit	ch. Conditions drier than	normal according to WET	S analysis.							
VEGETATION	Use scientific	names of plants.						1			
Tree Stratum (Plot	t cizo: 20' radius)				Absolute	Dominant	Indicator				
	i size. 30 Taulus)				% Cover	Species?	Status	Dominance Test	vorksheet		
1 2.						·	·	Number of Domina	nt Spacias		
3.								That Are OBL, FAC	•	2	(A)
4.								mat Ale ODE, I AG	, or i Ao.	2	(A)
5.								Total Number of Do	minant		
·						= Total Cover		Species Across All		5	(B)
						- 10101 00101			on and.		(2)
Sapling/Shrub Stra	atum (Plot size: 15' rad	dius)						Percent of Domina	nt Species		
1.								That Are OBL, FAC	W, or FAC:	40%	. (A/B)
2.											
3.											
4.								Prevalence Index	worksheet		
5.											
						= Total Cover		Total % Co		Mult	tiply by:
								That Are OBL, FAC	W, or FAC:		A/B
Herb Stratum (Plo								OBL species	2%	x1 =	0 02
1. Bromus inermi					30%	Yes	FACU	FACW species	30%	x2 =	0.6
2. Phalaris arund					30%	Yes	FACW	FAC species	21%	x3 =	0 63
3. Phleum praten	se				20%	Yes	FACU	FACU species	70%	x4 =	2.8
4. Poa pratensis					20%	Yes	FAC FACU	UPL species Column Totals:	5% 1.28	x5 =	0 25 4.3 (B)
<ol> <li>Elymus repens</li> <li>Pastinaca sativ</li> </ol>					5%	No	UPL	Column Totals.	1.20	(A)	4.3 (B)
7. Asclepias incar					2%	No	OBL	Prevaler	nce Index = B//	۰_ ·	3.36
8. Apocynum car					1%	No	FAC	Trevaler	ice index - D//		
9.	indoniani										
10.								Hydrophytic Vege	tation Indicat	ors	
11.								<i>y y y y y y y y y y</i>			
12.						·		1-Rapid T	est for Hydroph	nytic Vegetatio	'n
13.									nce Test is >50		
14.								3-Prevaler	nce Index is ≤3	01	
15.								4-Morphol	ogical Adaptati	ions <sup>1</sup> (Provide	supporting
16.								data in Re	emarks or on a	separate shee	et)
17.								Problema	tic Hydrophytic	Vegetation1 (I	Explain)
18.											
19.								<sup>1</sup> Indicators of hydrid	soil and wetla	nd hydrology r	must
20.								be present, unless	disturbed or pr	oblematic.	
					128%	= Total Cover					
	(D) ( )										
	<u>ım</u> (Plot size: 30' radi	us)						Hydrophytic			
1								Vegetation			
2.						Tetal O		Present?	Yes	<u>No X</u>	-
						= Total Cover					
Remarke: (Inclusio	photo numbers here	or on a separate sheet.)						1			
include	Photo numbers nele	טי טיי מ שבישמומוש שוופצו.)									

Profile Des	cription: (Describe to	the depth needed	to document the in	ndicator or c	onfirm the a	absence of	indicators.)	
Depth	Matrix			lox Features	4			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	<u></u>							
	-							
	·							
	<u></u>							
	Concentration, D=Deple	etion, RM=Reduced	Matrix, CS=Covere	d or Coated S	Sand Grains.		n: PL=Pore Lining	
-	Indicators <sup>3</sup> :					Test I	Indicators of Hydr	
	sol (A1)			d Matrix (S4)				nese Masses (F12)
	Epipedon (A2)		Sandy Redo					v Dark Surface (F22)
	Histic (A3)		Stripped Mat				Other (Expla	in in Remarks)
	gen Sulfide (A4)		Dark Surface					
	ied Layers (A5)			y Mineral (F1	-			
	Muck (A10)			ed Matrix (F2)	)			
	ted Below Dark Surface	e (A11)	Depleted Ma				3	Parton base barren b
	Dark Surface (A12)		Redox Dark	. ,				dicators have been updated to
	/ Mucky Mineral (S1)			rk Surface (F	7)			Field Indicators of Hydric Soils
5 cm l	Mucky Peat or Peat (S3	3)	Redox Depre	essions (F8)			in the United St	tates, Version 8.0, 2016.
	Layer (if observed):							
Type:								
Depth	(inches):					Hydric S	Soil Present?	Yes NoX
HYDROL	.OGY							
	drology Indicators:							
-	licators (minimum of on	e is required: check	all that apply)				Secondary Indicate	ors (minimum of two required)
-	ce Water (A1)			d Leaves (B	9)		Surface Soil	
	Vater Table (A2)		Aquatic Faur	`	- /		Drainage Pa	
	ation (A3)			Plants (B14)				Water Table (C2)
	Marks (B1)			ulfide Odor (C			Crayfish Bur	
	nent Deposits (B2)			zospheres or		s (C3)		isible on Aerial Imagery (C9)
	eposits (B3)			Reduced Iror	-	( )		itressed Plants (D1)
	Mat or Crust (B4)		Recent Iron	Reduction in	Tilled Soils (	C6)	Geomorphic	Position (D2)
	eposits (B5)		Thin Muck S	urface (C7)			FAC-Neutral	Test (D5)
Inunda	ation Visible on Aerial Ir	magery (B7)	Gauge or We	ell Data (D9)				
Spars	ely Vegetated Concave	Surface (B8)	Other (Expla	in in Remark	s)			
Field Obser	rvations:				[			
	ater Present?	Yes No X	Depth (inches)	): N/A				
Water Table	e Present?	Yes No X	Depth (inches)	: N/A				
Saturation I	Present?	Yes No X	Depth (inches)		Wetland	Hydrology	y Present?	Yes No X
(includes ca	apillary fringe)							
Describe R	ecorded Data (stream g	gauge, monitoring w	ell, aerial photos, pr	evious inspec	ctions), if ava	ilable:		
Remarks:								

Project/Site:	Rose Wind Repower Project					City/County	: Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Development				<u>.</u>	State	: MN	Sampling Point:	dp07
Investigator(s):	Andy Kranz						Section, Townshi	ip, Range: S 23, T 101N, R 16W	
Landform (hillslope		Shoulder					Loca	I relief (concave, convex, none): C	Concave
Slope (%):	0% La	it:	43.53985			Long:		92.728599	Datum: NAD83
	e Tripoli clay loam, 0 to 2 perce					-		NWI classifi	
	logic conditions on the site typi		ear?			Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	N , Soil	N	, or Hydrology	N	significantly distu			al Circumstances" present?	Yes X No
Are Vegetation	N , Soil	N	, or Hydrology	N	naturally problen			explain any answers in Remarks.)	
	FINDINGS Attach site							· -···································	
	getation Present?	indp onothing			No		Sampled Ar	02	
Hydric Soil Pres	•		Yes <u>x</u> Yes x		No		a Wetland?		No
Wetland Hydrol			Yes X		No	within	ra wedana:		
-	egy i lecenti		<u>x</u>						
Remarks: PEM data point for	Wetland w04 located in roadsid	de ditch. Conditions	drier than normal acco	rding to WE	ETS analysis.				
VEGETATION	Use scientific names	of plants.			Absolute	Dominant	Indicator	1	
Tree Stratum (Plot	size: 30' radius)				% Cover	Species?	Status	Dominance Test worksheet	
1.	· · · · · · ,				70 00001	000000	Oldido	Dominance rest worksheet	
2.								Number of Dominant Species	
3.								That Are OBL, FACW, or FAC:	2 (A)
4.									(1)
5.								Total Number of Dominant	
·						= Total Cover		Species Across All Strata:	2 (B)
									(-/
Sapling/Shrub Strat	tum (Plot size: 15' radius)							Percent of Dominant Species	
1.								That Are OBL, FACW, or FAC:	100% (A/B)
2.									
3.									
4.								Prevalence Index worksheet	
5.									
						= Total Cover		Total % Cover of:	Multiply by:
								That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	t size: 5' radius)							OBL species 50%	x1 = 0.5
1. Glyceria grandi	is		-		35%	Yes	OBL	FACW species 43%	x2 = 0 86
2. Phalaris arundi	nacea				25%	Yes	FACW	FAC species	x3 =
3. Scirpus atrovire	əns				15%	No	OBL	FACU species	x4 =
4. Agrostis gigant	ea				10%	No	FACW	UPL species	x5 =
5. Juncus dudleyi					5%	No	FACW	Column Totals: 0.93	(A) 1 36 (B)
6. Spartina pectin	ata				3%	No	FACW		
7.								Prevalence Index = B	B/A = 1.46
8.									
9.									
10.								Hydrophytic Vegetation Indica	ators
11									
12.								X 1-Rapid Test for Hydrop	ohytic Vegetation
13.								X 2-Dominance Test is >5	
14.								X 3-Prevalence Index is ≤	
15.								4-Morphological Adapta	ations <sup>1</sup> (Provide supporting
16.								data in Remarks or on	
17								Problematic Hydrophyt	tic Vegetation <sup>1</sup> (Explain)
18.									
19.								<sup>1</sup> Indicators of hydric soil and wet	and hydrology must
20								be present, unless disturbed or	problematic.
					93%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius)							Hydrophytic	
1								Vegetation	
2								Present? Yes	X No
					=	= Total Cover			
Remarks: (Include	photo numbers here or on a se	eparate sheet.)							

SOIL							Samp	ling Point: dp07
Profile Descri	ption: (Describe to	the depth needed to	document the in	dicator or c	onfirm the a	absence of	indicators.)	
Depth	Matrix		Redo	ox Features				
(inches)	Color (moist)	% Co	lor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
·								
1						2		
	ncentration, D=Deple	tion, RIVI=Reduced IVI	atrix, CS=Covered	or Coated S	sand Grains.		n: PL=Pore Lining,	
Hydric Soil In			<u> </u>			lesti	Indicators of Hydri	
Histosol		_	Sandy Gleyed					nese Masses (F12)
	ipedon (A2)	-	Sandy Redox					v Dark Surface (F22)
Black His		_	Stripped Matr	. ,			X Other (Expla	iin in Remarks)
Hydroge	n Sulfide (A4)	_	Dark Surface					
	I Layers (A5)	_	Loamy Mucky	-	-			
2 cm Mu	ck (A10)	_	Loamy Gleyed	d Matrix (F2)	)			
Depleted	Below Dark Surface	(A11)	Depleted Mat	rix (F3)				
Thick Da	rk Surface (A12)	_	Redox Dark S	urface (F6)			<sup>3</sup> The hydric soil ind	licators have been updated to
Sandy M	lucky Mineral (S1)	_	Depleted Dark	< Surface (F	7)		comply with the	Field Indicators of Hydric Soils
5 cm Mu	cky Peat or Peat (S3)	_	Redox Depres	ssions (F8)			in the United St	tates , Version 8.0, 2016.
Restrictive La	yer (if observed):							
Type:	. <b>j</b> e. ( ee).							
Depth (in	ches).					Hydric S	oil Present?	Yes X No
Deptil (III	ches).					Tiyune e	on resent:	
IYDROLO	GY							
-	ology Indicators:					i		
	ators (minimum of one	is required: check al					-	ors (minimum of two required)
X Surface	Water (A1)	_	Water-Stained	d Leaves (B	9)		Surface Soil	Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fauna	a (B13)			Drainage Pa	tterns (B10)
Saturatio	on (A3)		True Aquatic	Plants (B14)			Dry-Season	Water Table (C2)
Water M	arks (B1)	_	Hydrogen Sul	fide Odor (C	:1)		Crayfish Bur	rows (C8)
Sedimen	t Deposits (B2)		Oxidized Rhiz	ospheres or	n Living Root	s (C3)	Saturation V	isible on Aerial Imagery (C9)
Drift Dep	oosits (B3)	_	Presence of F	Reduced Iror	n (C4)		Stunted or S	tressed Plants (D1)
Algal Ma	t or Crust (B4)	-	Recent Iron R	eduction in	Tilled Soils (	C6)	X Geomorphic	Position (D2)
-	osits (B5)	-	Thin Muck Su			/	X FAC-Neutral	
	on Visible on Aerial Im	agery (B7)	Gauge or Wel					
	Vegetated Concave	• • • • •	Other (Explain		2)			
	vegetated Collcave				5)			
Field Observa	ations:							
Surface Water	r Present?	Yes X No	Depth (inches):	3				
Water Table F	Present?	Yes No X	Depth (inches):	N/A				
Saturation Pre	esent?	Yes No X	Depth (inches):	N/A	Wetland	Hydrology	y Present?	Yes X No
(includes capi	llary fringe)		• • • •	. <u></u> i				
	orded Data (stream g	auge, monitoring well	aerial photos, pre	vious inspec	tions), if ava	ilable:		
		0			,,			
Remarks:								

Project/Site:	Rose Wind Repowe	er Project			City/County	: Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Develo	pment			State	: MN	Sampling Point:	dp08
Investigator(s):	Andy Kranz					Section, Townsh	ip, Range: <u>S 23, T 101N, R 16W</u>	
Landform (hillslope	, terrace, etc.):	Shoulder				Loca	al relief (concave, convex, none):	none
Slope (%):	1-3%	Lat:	43 539718		Long:	-1	92.728599	Datum: NAD83
Soil Map Unit Name	e Tripoli clay loam, 0	to 2 percent slopes					NWI class	fication: None
Are climatic / hydro	ologic conditions on th	e site typical for this time of	year?		Yes	No	X (If no, explain in Remarks.	)
Are Vegetation	Ν	, Soil N	, or Hydrology	N significantly dist	urbed?	Are "Norm	al Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology	N naturally probler	natic?	(If needed	, explain any answers in Remarks	
SUMMARY OF	FINDINGS At	ach site map showing	g sampling point loca	tions, transects, im	portant featu	res, etc.		
	getation Present		Yes	No x		Sampled Ar	ea	
Hydric Soil Pres	-		Yes	No X		a Wetland?		No x
Wetland Hydrol	logy Present?		Yes	No X				
Remarks:								
	ocated in roadside di	ch. Conditions drier than no	rmal according to WETS an	alysis.				
VEGETATION	Use scientific	names of plants.						
Tree Stratum (Plot	cizo: 20' radius)			Absolute	Dominant	Indicator	B	
	size. 30 Taulus)			% Cover	Species?	Status	Dominance Test worksheet	
1 2.							Number of Dominant Species	
							That Are OBL, FACW, or FAC:	0 (A)
3. 4.							That Are OBL, FACW, of FAC.	0 (A)
4 5.							Total Number of Dominant	
J					= Total Cover		Species Across All Strata:	2 (B)
								(0)
Sapling/Shrub Strat	tum (Plot size: 15' ra	dius)					Percent of Dominant Species	
1.							That Are OBL, FACW, or FAC:	0% (A/B)
2.								
3.								
4.							Prevalence Index worksheet	
5.								
					= Total Cover		Total % Cover of:	Multiply by:
							That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	t size: 5' radius)		_				OBL species	x1 =
1. Bromus inermis	S			45%	Yes	FACU	FACW species 5%	x2 = 0.1
2. Elymus repens	1			35%	Yes	FACU	FAC species	x3 =
3. Spartina pectin	ata			5%	No	FACW	FACU species 80%	x4 = 3.2
4							UPL species	x5 =
5							Column Totals: 0.85	(A) <u>3.3</u> (B)
6								
7							Prevalence Index =	B/A = 3.88
8								
9							Hudronbutic Vagatation India	atoro.
10 11.				·			Hydrophytic Vegetation Indic	cators
12.							1-Rapid Test for Hydro	applytic Vogotation
13.							2-Dominance Test is >	
14.							3-Prevalence Index is	
15.								tations <sup>1</sup> (Provide supporting
16.							data in Remarks or or	
17.								/tic Vegetation <sup>1</sup> (Explain)
18.								
19.							<sup>1</sup> Indicators of hydric soil and we	etland hydrology must
20.							be present, unless disturbed or	problematic.
				85%	= Total Cover			·
Woody Vine Stratu	m (Plot size: 30' rad	ius)					Hydrophytic	
1.							Vegetation	
2.							-	No X
				_	= Total Cover			
Remarks: (Include	photo numbers here	or on a separate sheet.)						

nches)	Color (moist)			dox Features					
	COIDI (ITIDISI)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
				_					
ype: C=Concer	ntration, D=Depletion	n, RM=Reduce	d Matrix, CS=Cover	ed or Coated	Sand Grains	. <sup>2</sup> Locatio	on: PL=Pore Lining	g, M=Matrix.	
dric Soil Indica	tors <sup>3</sup> :					Test	Indicators of Hyd	ric Soils:	
Histosol (A1)			Sandy Gley	ed Matrix (S4)	)		Iron-Manga	nese Masses (F12)	
Histic Epiped	ion (A2)		Sandy Red	ox (S5)			Very Shallo	w Dark Surface (F22)	
Black Histic (	A3)		Stripped Ma	atrix (S6)			Other (Expl	ain in Remarks)	
Hydrogen Su	Ifide (A4)		Dark Surfac	ce (S7)					
Stratified Lay	rers (A5)		Loamy Muc	ky Mineral (F1	)				
2 cm Muck (A	<b>\10</b> )		Loamy Gle	ed Matrix (F2	)				
Depleted Bel	ow Dark Surface (A	11)	Depleted M	atrix (F3)					
Thick Dark S	urface (A12)		Redox Darl	Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been up	pdated to
Sandy Muck	y Mineral (S1)		Depleted D	ark Surface (F	7)		comply with th	e Field Indicators of H	lydric Soils
	Peat or Peat (S3)			ressions (F8)			in the United S	States, Version 8.0, 20	016.
strictive Layer									
Туре:	(ii observed).								
Depth (inches						Liveria (	Soil Present?	Yes	No
is not sampled c	lue to potential burie	ed utilities. Soils	s assumed to not be	hydric based	on lack of hy	drology and	d hydrophytic vege	tation.	
		ed utilities. Soils	s assumed to not be	hydric based	on lack of hy	drology and	d hydrophytic vege	tation.	
DROLOGY	y Indicators:			hydric based	on lack of hy	drology and			
(DROLOGY etland Hydrolog	y Indicators: (minimum of one is		k all that apply)			rdrology and	Secondary Indica	tors (minimum of two	required)
YDROLOGY etland Hydrolog imary Indicators Surface Wate	gy Indicators: (minimum of one is er (A1)		k all that apply)	hydric based		rdrology and	Secondary Indica		required)
YDROLOGY etland Hydrolog	gy Indicators: (minimum of one is er (A1)		k all that apply)	ned Leaves (B		rdrology and	Secondary Indica Surface So Drainage P	tors (minimum of two il Cracks (B6) atterns (B10)	required)
YDROLOGY etland Hydrolog rimary Indicators Surface Wate High Water T Saturation (A	y Indicators: (minimum of one is er (A1) Table (A2) (3)		k all that apply) Water-Stair Aquatic Fat	ned Leaves (B	9)	rdrology and	Secondary Indica Surface So Drainage P	tors (minimum of two il Cracks (B6)	required)
YDROLOGY etland Hydrolog rimary Indicators Surface Wate High Water T	y Indicators: (minimum of one is er (A1) Table (A2) (3)		k all that apply) Water-Stair Aquatic Fat True Aquati	ned Leaves (B	9)	rdrology and	Secondary Indica Surface So Drainage P	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2)	required)
YDROLOGY etland Hydrolog rimary Indicators Surface Wate High Water T Saturation (A	y Indicators: (minimum of one is er (A1) Table (A2) (3) (B1)		k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S	ned Leaves (B una (B13) ic Plants (B14)	9) 31)		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2)	
YDROLOGY etland Hydrolog rimary Indicators Surface Wate High Water T Saturation (A Water Marks	y Indicators: (minimum of one is er (A1) Table (A2) (3) (B1) posits (B2)		k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C	9) ) )1) n Living Roo		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) ırrows (C8)	
<b>/DROLOGY</b> etland Hydrolog imary Indicators Surface Water High Water T Saturation (A Water Marks Sediment De	y Indicators: (minimum of one is er (A1) Table (A2) (B1) (B1) poosits (B2) s (B3)		k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of	9) ) ;1) n Living Roo n (C4)	ts (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	tors (minimum of two il Cracks (B6) atterns (B10) h Water Table (C2) irrows (C8) Visible on Aerial Image	
The section of the se	y Indicators: (minimum of one is er (A1) Table (A2) (B1) (B1) posits (B2) s (B3) Crust (B4)		k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized Ri Presence o Recent Iron	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of f Reduced Iror	9) ) ;1) n Living Roo n (C4)	ts (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2)	
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<b>DROLOGY</b> etland Hydrolog imary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Inundation V	gy Indicators: (minimum of one is er (A1) Table (A2) (B1) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag	required: checl	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or f Reduced Iror n Reduction in Surface (C7) Vell Data (D9)	9) ) ) n Living Roo n (C4) Tilled Soils (	ts (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2)	
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DROLOGY etland Hydrolog imary Indicators     Surface Wate     High Water T     Saturation (A     Water Marks     Sediment De     Drift Deposits     Algal Mat or     Iron Deposits     Inundation V     Sparsely Veg eld Observation urface Water Prese	gy Indicators: (minimum of one is er (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su Is: esent? Ye	pery (B7) Inface (B8) es No X es No X	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or f Reduced Iror n Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s)	ts (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2) al Test (D5)	ery (C9)
DROLOGY     etland Hydrolog     imary Indicators     Surface Water     High Water T     Saturation (A     Water Marks     Sediment De     Drift Deposits     Algal Mat or     Iron Deposits     Inundation Vi     Sparsely Veg     etd Observation     inface Water Pre-     ater Table Presen     turation Presen	gy Indicators: (minimum of one is er (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su Is: esent? Ye ent? Ye	jery (B7) rface (B8) es NoX	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres or f Reduced Iror n Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s)	ts (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2)	
Procession     Provide the second secon	gy Indicators: (minimum of one is ar (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su IS: esent? Ye ent? Ye fringe)	es No X No X	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inches Depth (inches	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of f Reduced Iror Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A s): N/A s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s) Wetland	ts (C3) C6) d Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2) al Test (D5)	ery (C9)
Procession     Provide the second secon	gy Indicators: (minimum of one is er (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su Is: esent? Ye ent? Ye	es No X No X	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inches Depth (inches	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of f Reduced Iror Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A s): N/A s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s) Wetland	ts (C3) C6) d Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2) al Test (D5)	ery (C9)
Procession     Provide the second secon	gy Indicators: (minimum of one is ar (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su IS: esent? Ye ent? Ye fringe)	es No X No X	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inches Depth (inches	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of f Reduced Iror Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A s): N/A s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s) Wetland	ts (C3) C6) d Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2) al Test (D5)	ery (C9)
YDROLOGY etland Hydrolog mary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Inundation V Sparsely Veg etld Observation urface Water Pre- aturation Presen neludes capillary escribe Recorde	gy Indicators: (minimum of one is ar (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su IS: esent? Ye ent? Ye fringe)	es No X No X	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inches Depth (inches	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of f Reduced Iror Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A s): N/A s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s) Wetland	ts (C3) C6) d Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2) al Test (D5)	ery (C9)
YDROLOGY etland Hydrolog rimary Indicators Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Inundation Vi Sparsely Veg eld Observation unface Water Pre- vater Table Prese aturation Presen	gy Indicators: (minimum of one is ar (A1) Table (A2) (B1) posits (B2) s (B3) Crust (B4) s (B5) isible on Aerial Imag getated Concave Su IS: esent? Ye ent? Ye fringe)	es No X No X	k all that apply) Water-Stair Aquatic Fau True Aquati Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Gauge or W Other (Expl Depth (inches Depth (inches	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C hizospheres of f Reduced Iror Reduction in Surface (C7) Vell Data (D9) ain in Remark s): N/A s): N/A s): N/A	9) 1) n Living Roo n (C4) Tilled Soils ( s) Wetland	ts (C3) C6) d Hydrolog	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or 3 Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrrows (C8) Visible on Aerial Image Stressed Plants (D1) c Position (D2) al Test (D5)	ery (C9)

Project/Site:	Rose Wind Repower F	Project			City/County	: Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Developm	nent			State	: MN	Sampling Point:	dp09
Investigator(s):	Andy Kranz					Section, Townsh	nip, Range: <u>S 22, T 101N, R 16W</u>	
Landform (hillslope	, terrace, etc.):	Backslope				Loc	al relief (concave, convex, none): <u>C</u>	Convex
Slope (%):	8-15%	Lat:	43 543161		Long:	-	92.729389	Datum: NAD83
Soil Map Unit Name	e Tripoli clay loam, 0 to 2	2 percent slopes					NWI classifi	cation: None
Are climatic / hydro	logic conditions on the s	site typical for this time of y	vear?		Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	<u> </u>	, Soil N	, or Hydrology	N significantly dist	urbed?	Are "Norn	nal Circumstances" present?	Yes X No
Are Vegetation	<u> </u>	, Soil N	, or Hydrology	N naturally probler	natic?	(If needed	l, explain any answers in Remarks.	)
SUMMARY OF	FINDINGS Attac	ch site map showing	sampling point loca	tions, transects, im	portant featu	ires, etc.		
Hydrophytic Ve	getation Present?		Yes x	No	Is the	Sampled A	rea	
Hydric Soil Pres	sent?		Yes	No X	withir	n a Wetland?	Yes	No X
Wetland Hydrol	logy Present?		Yes	No <u>x</u>				
Remarks: Upland data point t	aken along constructed	slope along electrical facil	ity. Conditions drier than no	ormal according to WETS a	analysis.			
VEGETATION	Use scientific na	ames of plants.						
Tree Stratum (Plot	cizo: 20' radius)			Absolute	Dominant	Indicator		
	size. So radius)			% Cover	Species?	Status	Dominance Test worksheet	
1 2.							Number of Dominant Species	
3.							That Are OBL, FACW, or FAC:	2 (A)
4.								(//
5.							Total Number of Dominant	
					= Total Cover		Species Across All Strata:	3 (B)
Sapling/Shrub Strat	tum (Plot size: 15' radiu	is)					Percent of Dominant Species	
1							That Are OBL, FACW, or FAC:	67% (A/B)
2								
3							B	
4							Prevalence Index worksheet	
5.					= Total Cover		Total % Cover of:	Multiply by:
							That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	t size: 5' radius)						OBL species 20%	x1 = 0.2
1. Phalaris arundi	inacea		-	30%	Yes	FACW	FACW species 30%	x2 = 0.6
2. Bromus inermis	S			30%	Yes	FACU	FAC species 6%	x3 = 0.18
3. Asclepias incar	rnata			20%	Yes	OBL	FACU species 31%	x4 = 1 24
4. Poa pratensis				5%	No	FAC	UPL species	x5 =
5. Cirsium arvens	e			1%	No	FACU	Column Totals: 0.87	(A) 2 22 (B)
6. Equisetum arve	ense			1%	No	FAC		
7							Prevalence Index = B	B/A = 2.55
8								
9							I hadaa a haatia Maaadadia a Jaadia.	-4
10 11.							Hydrophytic Vegetation Indica	ators
12.							1-Rapid Test for Hydro	obytic Vegetation
13.							X 2-Dominance Test is >5	
14.				,			3-Prevalence Index is ≤	
15.							4-Morphological Adapta	ations <sup>1</sup> (Provide supporting
16.							data in Remarks or on	a separate sheet)
17.							Problematic Hydrophyt	tic Vegetation <sup>1</sup> (Explain)
18.								
19							<sup>1</sup> Indicators of hydric soil and wet	land hydrology must
20							be present, unless disturbed or	problematic.
				87%	= Total Cover			
Weedy Vint Original	m (Dist size: 001	A						
	m (Plot size: 30' radius						Hydrophytic	
1 2.							Vegetation Present? Yes	X No
<u>ــــــــــــــــــــــــــــــــــــ</u>					= Total Cover		Tesent: Tes_	X No
Remarks: (Include	photo numbers here or	on a separate sheet.)						

Color (r	noist)	Color (moist)         %	Lo		Remarks
	D=Depletion, RM=Reduc	ed Matrix, CS=Covered or Coated	Sand Grains. <sup>2</sup> L	Location: PL=Pore Lining	, M=Matrix.
	1 /			Test Indicators of Hydr	
Histosol (A1)		Sandy Gleyed Matrix (S4)	)	Iron-Mangar	nese Masses (F12)
Histic Epipedon (A2)		Sandy Redox (S5)		Very Shallov	w Dark Surface (F22)
Black Histic (A3)		Stripped Matrix (S6)		Other (Expla	ain in Remarks)
Hydrogen Sulfide (A4	.)	Dark Surface (S7)			
Stratified Layers (A5)		Loamy Mucky Mineral (F1	1)		
2 cm Muck (A10)		Loamy Gleyed Matrix (F2	2)		
Depleted Below Dark	Surface (A11)	Depleted Matrix (F3)			
Thick Dark Surface (	A12)	Redox Dark Surface (F6)		<sup>3</sup> The hydric soil inc	dicators have been updated to
Sandy Mucky Minera	l (S1)	Depleted Dark Surface (F	7)	comply with the	e Field Indicators of Hydric Soils
5 cm Mucky Peat or	Peat (S3)	Redox Depressions (F8)		in the United S	tates, Version 8.0, 2016.
strictive Layer (if obse	rved):				
Туре:					
Depth (inches):			Ну	ydric Soil Present?	Yes No X
YDROLOGY					
atland Hydrology Indic	ators:				
	im of one is required: che	ck all that apply)			ors (minimum of two required)
Surface Water (A1)		Water-Stained Leaves (B	9)	Surface Soil	Cracks (B6)
High Water Table (A	2)	Aquatic Fauna (B13)		Drainage Pa	itterns (B10)
Saturation (A3)		True Aquatic Plants (B14)			Water Table (C2)
Water Marks (B1)		Hydrogen Sulfide Odor (C		Crayfish Bur	
Sediment Deposits (	32)	Oxidized Rhizospheres of			isible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduced Iron			Stressed Plants (D1)
Algal Mat or Crust (B	4)	Recent Iron Reduction in	Tilled Soils (C6)		Position (D2)
Iron Deposits (B5)		Thin Muck Surface (C7)		X FAC-Neutral	i Test (D5)
Inundation Visible on		Gauge or Well Data (D9)			
Sparsely Vegetated (	Concave Surface (B8)	Other (Explain in Remark	is)		
d Observations:					
urface Water Present?	Yes No	X Depth (inches): N/A			
ater Table Present?	Yes No				
	Yes No		Wetland Hyd	drology Present?	Yes No X
aturation Present?					
aturation Present? ncludes capillary fringe)					
ncludes capillary fringe)	stream gauge, monitoring	y well, aerial photos, previous inspe	ctions), if available	9:	
ncludes capillary fringe)	stream gauge, monitoring	well, aerial photos, previous inspe	ctions), if available	9:	
cludes capillary fringe)	stream gauge, monitorinç	ı well, aerial photos, previous inspe	ctions), if available	e.	
cludes capillary fringe)	stream gauge, monitorinç	ı well, aerial photos, previous inspe	ctions), if available		
cludes capillary fringe) escribe Recorded Data (	stream gauge, monitorinç	j well, aerial photos, previous inspe	ctions), if available	<del>.</del>	

Project/Site:	Rose Wind Repower Project					City/Count	ty: Mower County		Sampli	ng Date: 7/26/2021	
Applicant/Owner:	Con Edison Development					Stat	e: MN	Sampling Point:		dp10	
Investigator(s):	Andy Kranz						Section, Townsh	ip, Range: S 22, T 10 <sup>-</sup>	1N, R 16W		
Landform (hillslope	, terrace, etc.):	Footslope					Loca	al relief (concave, conv	ex, none): Concave	9	
Slope (%):	1-3% Lat		43 543153			Long:		92.729192	Datu	im: NAD83	
Soil Map Unit Name	e Tripoli clay loam, 0 to 2 percen	nt slopes							NWI classification:	None	
Are climatic / hydro	logic conditions on the site typic	al for this time of ye	ear?			Yes	s No	X (If no, explain ir	n Remarks.)		
Are Vegetation	N , Soil	Ν	, or Hydrology	Ν	significantly dist	urbed?	Are "Norm	al Circumstances" pre	sent? Ye	es <u>X</u> No	
Are Vegetation	N , Soil	N	, or Hydrology	Ν	- naturally probler	natic?	(If needed,	, explain any answers			
SUMMARY OF	FINDINGS Attach site	map showing	sampling point lo	ocations,	transects, im	portant feat	ures, etc.				
	getation Present?		Yes x	N		-	e Sampled Ar	ea			
Hydric Soil Pres	0		Yes	N			in a Wetland?		Yes	No x	
Wetland Hydrol			Yes x	N							
Remarks:											
PEM data point for	Wetland w06 located in depress	sion. Conditions drie	er than normal accordir	ng to WETS	analysis.						
VEGETATION	Use scientific names o	of plants.						•			
Tasa Chasters (Dist					Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30 radius)				% Cover	Species?	Status	Dominance Test w	vorksheet		
1								Number of Deminer			
2								Number of Dominar	•	4 (4)	
3								That Are OBL, FAC	w, of FAC:	4 (A)	
4								Total Number of Do	minant		
5						= Total Cover				4 (B)	
						= Total Cover		Species Across All	Strata:	4 (B)	
Sapling/Shrub Strat	tum (Plot size: 15' radius)							Percent of Dominan	t Spacios		
1.	<u></u> (							That Are OBL, FAC		100% (A/I	B)
2.								That Ale OBE, I AO	w, or i Ao.	10070 (74)	0)
3.											
4.								Prevalence Index w	vorksheet		
5.											
0.						= Total Cover		Total % Co	ver of:	Multiply by:	
						- 10101 00101		That Are OBL, FAC		A/E	3
Herb Stratum (Plot	t size: 5' radius)							OBL species	33% x1	= 0.33	_
1. Phalaris arundii	nacea				40%	Yes	FACW	FACW species	40% x2	2 = 0.8	_
2. Carex pellita					10%	Yes	OBL	FAC species	6% x3	8 = 0.18	_
3. Scirpus atrovire	ens				10%	Yes	OBL	FACU species	8% x4	= 0.32	_
4. Asclepias incar	mata				10%	Yes	OBL	UPL species	x5	i =	_
5. Poa pratensis					5%	No	FAC	Column Totals:	0.87 (A)	1 63	(B)
6. Phleum pratens	50				5%	No	FACU				_
7. Carex bebbii					3%	No	OBL	Prevalen	ce Index = B/A =	1.87	
8. Trifolium prater					3%	No	FACU				
9. Equisetum arve	ense				1%	No	FAC				
10								Hydrophytic Vege	tation Indicators		
11											
12									st for Hydrophytic V	egetation	
13									ce Test is >50%		
14									ce Index is ≤3 0 <sup>1</sup>	<b>D</b>	
15									ogical Adaptations <sup>1</sup> (		
16.									marks or on a sepa		
17								Problemat	ic Hydrophytic Vege	etation (Explain)	
18								<sup>1</sup> Indiactors of hydrig	acil and watland by	drology must	
19									soil and wetland hy		
20								be present, unless of	disturbed or problen	natic.	
					87%	= Total Cover					
Woody Vizz Ota	m (Plot size: 30' radius)										
	m (Plot size: 30 radius)							Hydrophytic			
1								Vegetation	<b>V</b>	Na	
2						Total Cours		Present?	Yes X		
						= Total Cover					
Romarka: (Incluid-	photo numbers here or on a ser	parato sheat \						1			
include		Sarate Sheet.)									

SOIL							Samp	-	dp10
Profile Desc	cription: (Describe to	o the depth ne	eded to document the	indicator or c	confirm the at	sence of i	ndicators.)		
Depth	Matrix		Re	dox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rer	marks
/ 1		etion, RM=Red	uced Matrix, CS=Cover	ed or Coated S	Sand Grains.		n: PL=Pore Lining		
	Indicators <sup>3</sup> :		Sandy Clay	ad Matrix (C4)	\	l est li	ndicators of Hyd		
Histoso				red Matrix (S4)	)	-		nese Masses (F12	
	Epipedon (A2)		Sandy Red			-		w Dark Surface (F	22)
	Histic (A3)		Stripped Ma			-	Other (Expla	ain in Remarks)	
	gen Sulfide (A4)		Dark Surfac	. ,					
	ed Layers (A5)			ky Mineral (F1	,				
	luck (A10)	( , , , )		/ed Matrix (F2)	)				
-	ed Below Dark Surfac	e (A11)	Depleted M	. ,		:	3 <b></b>		
	Dark Surface (A12)			Surface (F6)				dicators have bee	•
	Mucky Mineral (S1)			ark Surface (F	-7)			e Field Indicators	-
5 cm M	lucky Peat or Peat (S	3)	Redox Dep	ressions (F8)			in the United S	tates, Version 8.0	), 2016.
_ 0 0.00									
	Layer (if observed):								
estrictive I Type:									
Type: Depth (	inches):	of buried utilities	s. Assumed to be hydric	based on hyd	Irology and ve	-	<b>bil Present?</b>	Yes	No>
estrictive I Type: Depth ( emarks: pils not sam	inches):	of buried utilities	s. Assumed to be hydric	based on hyd	Irology and ve	-		Yes	No <u></u>
estrictive I Type: Depth ( emarks: pils not sam	inches):	of buried utilities	s. Assumed to be hydric	based on hyd	Irology and ve	-		Yes	No>
estrictive I Type: Depth ( emarks: wils not sam YDROL	inches): upled due to potential of OGY drology Indicators:			based on hyd	Irology and ve	getation fac	xtors.		
estrictive I Type: Depth ( marks: ils not sam YDROL etland Hyr rimary Indi	inches): npled due to potential of OGY drology Indicators: cators (minimum of or		heck all that apply)			getation fac	ctors.	ors (minimum of t	
estrictive I Type: Depth ( omarks: iils not sam YDROL retland Hyd rimary Indi Surface	inches): npled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1)		heck all that apply) Water-Stair	ned Leaves (B		getation fac	tors. Secondary Indicat	ors (minimum of t l Cracks (B6)	
	inches): ppled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2)		heck all that apply) Water-Stair Aquatic Fau	ned Leaves (B una (B13)	9)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa	ors (minimum of t Cracks (B6) atterns (B10)	wo required)
Strictive I     Type: _     Depth (     marks:     ils not sam     YDROL     etland Hyg     rimary Indi     Surface     High W	inches): npled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1)		heck all that apply) Water-Stair Aquatic Fau True Aquat	ned Leaves (B una (B13) ic Plants (B14)	9)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa	ors (minimum of t l Cracks (B6)	wo required)
	inches): appled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1)		heck all that apply) Water-Stair Aquatic Fau True Aquat	ned Leaves (B una (B13)	9)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2)	wo required)
	inches): npled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3)		heck all that apply) Water-Stair Aquatic Fat True Aquat Hydrogen S	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C	9)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2)	wo required)
	inches): appled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1)		heck all that apply) Water-Stair Aquatic Fat True Aquat Hydrogen S	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C	9) ) C1) n Living Roots	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)	wo required) hagery (C9)
	inches): ppled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)		heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or f Reduced Iror	9) ) C1) n Living Roots	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D	wo required) hagery (C9)
	inches): ppled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or f Reduced Iror	9) ) C1) n Living Roots n (C4)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9)
	inches): appled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4)	ne is required: c	heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized R Presence o Recent Iron Thin Muck	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or f Reduced Iror Reduction in	9) ) C1) n Living Roots n (C4)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9)
	inches): ppled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5)	ne is required: c magery (B7)	heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized R Presence o Recent Iron Thin Muck S	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or f Reduced Iror Reduced Iror Reduction in Surface (C7)	9) ) C1) n Living Roots n (C4) Tilled Soils (C	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9)
estrictive I Type: Depth ( emarks: bils not sam YDROL /etland Hyd Primary Indi Surface High W Satura' Water I Sedime Drift De Algal M Iron De Inunda Sparse	inches): appled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial I ely Vegetated Concave	ne is required: c magery (B7)	heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized R Presence o Recent Iron Thin Muck S	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or f Reduced Iror Reduced Iror Reduction in Surface (C7) /ell Data (D9)	9) ) C1) n Living Roots n (C4) Tilled Soils (C	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9)
estrictive I Type: Depth ( emarks: bils not sam YDROL /etland Hyu Primary Indi Surface High W Saturar Water Sedime Drift De Algal M Iron De Inunda	inches): appled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial I ely Vegetated Concave	ne is required: c magery (B7) e Surface (B8)	heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized R Presence o Recent Iron Thin Muck S	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or f Reduced Iror I Reduction in Surface (C7) /ell Data (D9) ain in Remark	9) ) C1) n Living Roots n (C4) Tilled Soils (C	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9)
	inches): ppled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial I ely Vegetated Concave vations: ter Present?	magery (B7) e Surface (B8) Yes No	heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized R Presence o Recent Iror Thin Muck S Other (Expl	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or r Reduced Iror r Reduction in Surface (C7) /ell Data (D9) ain in Remark s): <u>N/A</u>	9) ) C1) n Living Roots n (C4) Tilled Soils (C	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9)
estrictive I Type: Depth ( emarks: bils not sam YDROL Vetland Hyu Primary Indi Surface High W Satura Water Sedime Drift De Algal M Iron De Inunda Sparse Surface Wat	inches): ppled due to potential of OGY drology Indicators: cators (minimum of or e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aerial I ely Vegetated Concave vations: ter Present? Present?	magery (B7) e Surface (B8) Yes No Yes No	heck all that apply) Water-Stair Aquatic Fau True Aquat Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck S Gauge or W Other (Expl	ned Leaves (B una (B13) ic Plants (B14) Sulfide Odor (C nizospheres or r Reduced Iror r Reduction in Surface (C7) /ell Data (D9) ain in Remarka s): N/A	9) ) C1) n Living Roots n (C4) Tilled Soils (C s)	getation fac	stors. Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of t Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial In Stressed Plants (D : Position (D2)	wo required) hagery (C9) 1)

Remarks:

Project/Site:	Rose Wind Repowe	er Project				City/County	: Mower County	1	Sa	ampling Date: 7/26	/2021
Applicant/Owner:	Con Edison Develo	pment				State	: MN	Sampling Point:		dp11	
Investigator(s):	Andy Kranz						Section, Townsh	nip, Range: <u>S 14, T 101</u>	N, R 16W		
Landform (hillslope	, terrace, etc.):	Footslope					Loca	al relief (concave, conv	ex, none): Cor	ncave	
Slope (%):	3-8%	Lat:	43 551337	7		Long:	-	92.710367		Datum: NAD83	
Soil Map Unit Name	e Clyde silty clay loar	n, 0 to 3 percent slopes							NWI classifica	tion: R2UBHx	
Are climatic / hydro	ologic conditions on th	e site typical for this time	of year?			Yes	No	X (If no, explain in	Remarks.)		
Are Vegetation	Ν	, Soil N	, or Hydrology	Ν	significantly distu	urbed?	Are "Norm	nal Circumstances" pres	sent?	Yes X No	
Are Vegetation	Ν	, Soil N	, or Hydrology	Ν	naturally problem	natic?	(If needed	l, explain any answers i	n Remarks.)		
SUMMARY OF	FINDINGS At	tach site map showi	ng sampling point l	ocations	, transects, im	portant featu	ıres, etc.				
Hydrophytic Ve	getation Present?	?	Yes x		No	Is the	Sampled Ar	rea			
Hydric Soil Pres	sent?		Yes X		No	within	n a Wetland?	?	Yes x	No	
Wetland Hydrol	logy Present?		Yes X		No						
Remarks: PEM data point for	Wetland w05 located	l in depression. Conditions	drier than normal accord	ing to WET	S analysis.						
VEGETATION	Use scientific	names of plants.									
Tree Stratum (Plot	cizo: 20' radius)				Absolute	Dominant	Indicator				
	size. So radius)				% Cover	Species?	Status	Dominance Test w	orksneet		
1 2.								Number of Dominan	t Species		
3.								That Are OBL, FAC		1	(A)
4.								111017110 002, 1710			(,,)
5.								Total Number of Dor	minant		
						= Total Cover		Species Across All S	Strata:	1	(B)
Sapling/Shrub Strat	tum (Plot size: 15' ra	dius)						Percent of Dominan	t Species		
1								That Are OBL, FAC	W, or FAC:	100%	(A/B)
2.											
3.											
4								Prevalence Index w	orksheet		
5.											
						= Total Cover		Total % Cov		Multiply b	<u> </u>
Herb Stratum (Plot	t size: 5' radius)							That Are OBL, FACV	V, OF FAC:		A/B
1. Phalaris arundi			_		95%	Yes	FACW	OBL species FACW species	96%	x1 = x2 =19	2
2. Pastinaca sativ					10%	No	UPL	FAC species	5%	x3 = 0.1	
3. Ambrosia trifida					5%	No	FAC	FACU species	-,-	x4 =	-
4. Echinocystis lo					1%	No	FACW	UPL species	10%	x5 = 0.5	5
5.								Column Totals:	1.11	(A) 25	7 (B)
6.								-			
7.								Prevalence	ce Index = B/A	= 2.32	
8.											
9											
10								Hydrophytic Veget	ation Indicato	ors	
11											
12								X 1-Rapid Te			
13								X 2-Dominan			
14								X 3-Prevalence		u ons <sup>1</sup> (Provide supp	orting
15.											orung
16.										separate sheet) Vegetation <sup>1</sup> (Expla	in)
17 18.									criyuropriyuc	Vegetation (Expla	
19.								<sup>1</sup> Indicators of hydric	soil and wetlar	nd hydrology must	
20.								be present, unless of			
					111%	= Total Cover		se present, unless t		serenduo.	
Woody Vine Stratu	m (Plot size: 30' rad	ius)						Hydrophytic			
1.								Vegetation			
2.								Present?	Yes X	No	
						= Total Cover					
Remarks: (Include	photo numbers here	or on a separate sheet.)									

#### SOIL Sampling Point: dp11 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** (inches) Color (moist) % Color (moist) % Туре Loc<sup>2</sup> Texture Remarks 10YR 2/1 0-4" 95 10YR 4/6 5 С Μ Silt Loam 4-6" 10YR 2/1 70 10YR 4/2 30 D Μ Silt Loam 6-16" 10YR 3/1 60 10YR 4/2 20 D Μ Loamy Sand 5YR 4/6 10 С Μ 16-24" 10YR 2/1 100 Loamy Sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators<sup>3</sup>: Test Indicators of Hydric Soils: Iron-Manganese Masses (F12) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Sandy Redox (S5) Very Shallow Dark Surface (F22) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Dark Surface (S7) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) <sup>3</sup>The hydric soil indicators have been updated to Thick Dark Surface (A12) Х Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) comply with the Field Indicators of Hydric Soils 5 cm Mucky Peat or Peat (S3) Х Redox Depressions (F8) in the United States, Version 8.0, 2016. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes Х No Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) х Iron Deposits (B5) Thin Muck Surface (C7) Х FAC-Neutral Test (D5) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): N/A No X N/A Water Table Present? Depth (inches): Yes Saturation Present? Yes No Х Depth (inches): N/A Wetland Hydrology Present? Х Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site:	Rose Wind Repower	Project				City/County	: Mower County		Sampling Date: 7/26/2021
Applicant/Owner:	Con Edison Develop	ment				State	: MN	Sampling Point:	dp12
Investigator(s):	Andy Kranz						Section, Townsh	ip, Range: S 14, T 101N, R 16W	
Landform (hillslope,	, terrace, etc.):	Shoulder						al relief (concave, convex, none): C	Convex
Slope (%):	0%	Lat:	43 551326			Long:		92.710251	Datum: NAD83
	e Clyde silty clay loam	, 0 to 3 percent slopes				-		NWI classifi	cation: None
		site typical for this time of	vear?			Yes	No	X (If no, explain in Remarks.)	
Are Vegetation	N	, Soil N	, or Hydrology	N signi	ficantly distu	-		al Circumstances" present?	Yes X No
Are Vegetation	N	, Soil N	, or Hydrology		ally problen			, explain any answers in Remarks.)	
		ach site map showing						,	
Hydric Soil Pres	getation Present?		Yes Yes	No No	x x		Sampled Ar a Wetland?		No x
Wetland Hydrol			Yes	No No	x	within		Tes	<u>No x</u>
-	ogy i rooont.		100	<u> </u>	X				
Remarks: Upland data point ta	aken along linear terra	ce above ditch. Conditions	drier than normal accordir	ig to WETS anal	ysis.				
VEGETATION ·	Use scientific r	names of plants.							
					Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)			0	% Cover	Species?	Status	Dominance Test worksheet	
1									
2								Number of Dominant Species	
3							. <u> </u>	That Are OBL, FACW, or FAC:	1 (A)
4							. <u> </u>		
5							. <u> </u>	Total Number of Dominant	
					:	= Total Cover		Species Across All Strata:	<u> </u>
	tum (Plot size: 15' rad	ius)						Percent of Dominant Species	
1								That Are OBL, FACW, or FAC:	33% (A/B)
2									
3									
4								Prevalence Index worksheet	
5.								<b>T</b> . 1 <b>W D</b>	
						= Total Cover		Total % Cover of: That Are OBL, FACW, or FAC:	Multiply by:
Herb Stratum (Plot	eize: 5' radius)								
1. Pastinaca sativa	·		-		25%	Yes	UPL	OBL species	x1 = x2 =
2. Andropogon ge					20%	Yes	FAC	FAC species 21%	x3 = 0 63
3. Solanum carolir				·	15%	Yes	FACU	FACU species 40%	x4 = 1.6
4. Sorghastrum nu					10%	No	FACU	UPL species 30%	x4 = 1.0 x5 = 1.5
5. Bromus inermis					5%	No	FACU	Column Totals: 0.91	(A) $3.73$ (B)
6. Taraxacum offic					5%	No	FACU		(A) <u>3.73</u> (B)
7. Bouteloua curti					5%	No	UPL	Prevalence Index = B	/A = 4.10
8. Achillea millefoli				·	3%	No	FACU	r revalence index – D	4.10
9. Elymus canade					1%	No	FACU		
10. Phleum pratens					1%	No	FACU	Hydrophytic Vegetation Indica	tore
11. Symphyotrichul				·	1%	No	FAC	Hydrophytic vegetation indica	
12.	manceolatam			·	170	110	TAC	1-Rapid Test for Hydrop	hytic Vogotation
13.								2-Dominance Test is >5	
14.								3-Prevalence Index is ≤	
15.									tions <sup>1</sup> (Provide supporting
16.								data in Remarks or on	
17.									ic Vegetation <sup>1</sup> (Explain)
18.									
19.				·				<sup>1</sup> Indicators of hydric soil and wet	land hydrology must
20.				·				be present, unless disturbed or	
<u> </u>					91%	= Total Cover		se present, unless disturbed of	problemano.
					3170 3				
Woody Vine Stratur	m (Plot size: 30' radiu	is)						Hydrophytic	
1.								Vegetation	
2.								-	No X
						= Total Cover			<u>No X</u>
Remarks: (Include	photo numbers here o	or on a separate sheet.)						1	

nches)											
	Color (moist)	%	Colo	r (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-24"	10YR 2/1	100						Silt Loam			
									-		
	ncentration, D=Dep	lation PM_E	Poducod Mot	iv CS_Cov	arad or Costor			ion: PL=Pore Li	ining M-Motrix		
dric Soil In				IX, 00-00V	ered of Coaled	a Gana Grains.		t Indicators of I	-		
Histosol				Sandy Cl	eyed Matrix (S	4)	163		nganese Masses	(E12)	
				-	-	+)			-		
	ipedon (A2)			-	edox (S5)				allow Dark Surfa		
Black His					Matrix (S6)				Explain in Remark	(S)	
	n Sulfide (A4)			Dark Sur							
	Layers (A5)			-	ucky Mineral (F	-					
2 cm Mu	· · · ·			-	leyed Matrix (F	2)					
	Below Dark Surfac	e (A11)		-	Matrix (F3)			2			
	rk Surface (A12)			-	ark Surface (F6	,		,	oil indicators have		
Sandy M	ucky Mineral (S1)			Depleted	Dark Surface (	(F7)		comply wit	h the <i>Field Indica</i>	tors of Hydric So	oils
5 cm Mu	cky Peat or Peat (S	3)		Redox De	epressions (F8)	)		in the Unite	ed States, Versio	n 8.0, 2016.	
strictive La	yer (if observed):										
Type:											
Depth (in	chae).						Hydric	Soil Present?	Yes	No	x
ls not sampl	ed due to potential	buried utilitie	s. Soils assu	med to not l	be hydric based	d on lack of hy	drology ar	nd hydrophytic v	egetation.		
ils not sampl	GY	buried utilitie	s. Soils assu	med to not l	be hydric based	d on lack of hy	drology ar	nd hydrophytic v	egetation.		
ils not sampl YDROLO etland Hydr	GY ology Indicators:				be hydric based	d on lack of hy	drology ar				
ils not sampl YDROLO etland Hydr rimary Indica	GY ology Indicators: tors (minimum of o			nat apply)			drology ar	Secondary Ind	dicators (minimur	n of two required	)
IS not sampl YDROLO etland Hydr rimary Indica Surface	GY ology Indicators: ttors (minimum of o Water (A1)			nat apply) Water-Sta	ained Leaves (I		drology ar	Secondary Inc	dicators (minimur Soil Cracks (B6)	n of two required	)
IS not sampl YDROLO etland Hydr rimary Indica Surface V High Wa	<b>GY</b> ology Indicators: tors (minimum of o Water (A1) ter Table (A2)			nat apply) Water-Sta Aquatic F	ained Leaves (I auna (B13)	B9)	drology ar	Secondary Inc Surface Drainag	dicators (minimur Soil Cracks (B6) e Patterns (B10)		)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic	<b>GY</b> ology Indicators: tors (minimum of o Water (A1) ter Table (A2) n (A3)			nat apply) Water-St: Aquatic F True Aqu	ained Leaves (I auna (B13) atic Plants (B1	B9) 4)	drology ar	Secondary Ind Surface Drainag Dry-Sea	dicators (minimur Soil Cracks (B6) Je Patterns (B10) ason Water Table		)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M	<b>GY</b> ology Indicators: tors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1)			nat apply) Water-Sta Aquatic F True Aqu Hydroger	ained Leaves (I auna (B13) atic Plants (B1 n Sulfide Odor (	B9) 4) (C1)		Secondary Ind Surface Drainag Dry-Sea Crayfish	dicators (minimur Soil Cracks (B6) Je Patterns (B10) ason Water Table n Burrows (C8)	(C2)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M	<b>GY</b> ology Indicators: tors (minimum of o Water (A1) ter Table (A2) n (A3)			nat apply) Water-Sta Aquatic F True Aqu Hydroger	ained Leaves (I auna (B13) atic Plants (B1	B9) 4) (C1)		Secondary Ind Surface Drainag Dry-Sea Crayfish	dicators (minimur Soil Cracks (B6) Je Patterns (B10) ason Water Table	(C2)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen	<b>GY</b> ology Indicators: tors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1)			hat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized	ained Leaves (I auna (B13) atic Plants (B1 n Sulfide Odor (	B9) 4) (C1) on Living Root		Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati	dicators (minimur Soil Cracks (B6) Je Patterns (B10) ason Water Table n Burrows (C8)	(C2) ial Imagery (C9)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen Drift Dep	<b>GY</b> ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)			hat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence	ained Leaves (I auna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres	B9) 4) (C1) on Living Roof on (C4)	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma	GY ology Indicators: tors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)			hat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir	ained Leaves (I auna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres e of Reduced In	B9) (C1) (C1) on Living Roof on (C4) n Tilled Soils (	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep	GY ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	ne is require	d: check all th	Mat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc	ained Leaves (I Fauna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres of Reduced In on Reduction in k Surface (C7)	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils (	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic	GY ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial	ne is require	d: check all th 	at apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or	ained Leaves (I auna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres e of Reduced In on Reduction in k Surface (C7) Well Data (D9	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils (f	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	GY ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav	ne is require	d: check all th 	Mat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or	ained Leaves (I Fauna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres of Reduced In on Reduction in k Surface (C7)	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils (f	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface High Wa Saturatic Water M. Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	GY ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav ttions:	ne is required Imagery (B7) e Surface (B	d: check all th 	hat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex	ained Leaves (I Fauna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced In on Reduction in k Surface (C7) Well Data (D9 cplain in Remar	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils (f	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely eld Observa	GY ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav ttions: Present?	ne is required Imagery (B7) e Surface (B Yes	d: check all th	Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex	ained Leaves (I Fauna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres o Reduced In on Reduction in k Surface (C7) Well Data (D9 oplain in Remar	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils (f	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	)
YDROLO etland Hydr rimary Indica Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely eld Observa varface Water	GY ology Indicators: itors (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav tions: Present?	ne is required Imagery (B7) e Surface (B	d: check all th 	Mat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex Depth (inch	ained Leaves (I Fauna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres of Reduced Ird on Reduction in k Surface (C7) Well Data (D9 cplain in Remar nes): N/A	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils (f	s (C3)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	)
Is not sample YDROLO etland Hydr imary Indica Surface V High Wa Saturatic Water M. Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely eld Observa aurface Water Table F	GY ology Indicators: itors (minimum of o Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav tions: Present?	ne is required Imagery (B7) e Surface (B Yes	d: check all th	Aquatic F Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex	ained Leaves (I Fauna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres of Reduced Ird on Reduction in k Surface (C7) Well Data (D9 cplain in Remar nes): N/A	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils ( ) (ks)	s (C3) C6)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomod	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2	(C2) ial Imagery (C9) ts (D1)	) 
YDROLO etland Hydr rimary Indica Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely eld Observa wrface Water faturation Pre	GY ology Indicators: ttors (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Vegetated Concav ttions: Present? tresent?	ne is required Imagery (B7) e Surface (B Yes Yes	d: check all th	Mat apply) Water-Sta Aquatic F True Aqu Hydroger Oxidized Presence Recent Ir Thin Muc Gauge or Other (Ex Depth (inch	ained Leaves (I Fauna (B13) atic Plants (B1 n Sulfide Odor ( Rhizospheres of Reduced Ird on Reduction in k Surface (C7) Well Data (D9 cplain in Remar nes): N/A	B9) 4) (C1) on Living Roof on (C4) n Tilled Soils ( ) (ks)	s (C3) C6)	Secondary Ind Surface Drainag Dry-Sea Crayfish Saturati Stunted Geomon FAC-Ne	dicators (minimur Soil Cracks (B6) le Patterns (B10) ason Water Table n Burrows (C8) on Visible on Aer or Stressed Plar rphic Position (D2 eutral Test (D5)	(C2) ial Imagery (C9) ts (D1) 2)	
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