Exhibit 8. Preliminary Vegetation Survey

Lynn Kurer and Wayne Bushberger Properties

Dates: August 28 and September 4 and 5, 2019

Observers: Christopher J. Jors, Principal Biologist

Daniel L. Carter, Ph.D., Principal Biologist

Jennifer L. Dietl, Senior Biologist

Shane T. Heyel, Biologist

Southeastern Wisconsin Regional Planning Commission

Location: City of Muskego in parts of the Northwest and Northeast one-quarters of U.S. Public

Land Survey Sections 13 and 14, respectively, Township 5 North, Range 20 East,

Waukesha County, Wisconsin.

Species List: Plant Community Area No. 1 – Native Species

Co-dominant species

Alisma subcordatum--Common water plantain

Amaranthus tuberculatus -- Amaranth

Ambrosia artemisiifolia--Common ragweed

Ambrosia trifida -- Giant ragweed

Bidens sp.--Beggars-ticks

Carex vulpinoidea -- Fox sedge

<u>Chenopodium</u> <u>album</u>--Lamb's quarters

Cyperus esculentus -- Chufa

Eleocharis obtusa -- Spike-rush

<u>Epilobium</u> <u>coloratum</u>--Willow-herb <u>Equisetum</u> <u>hyemale</u>--Scouring-rush <u>Erigeron</u> <u>canadensis</u>--Horseweed <u>Eupatorium</u> <u>perfoliatum</u>--Boneset

<u>Eutrochium</u> <u>maculatum</u>--Joe-Pye weed

<u>Juncus</u> <u>bufonius</u>--Toad rush

Juncus dudleyi--Dudley's rush

Juncus nodosus--Joint rush

Juncus torreyi -- Torrey's rush

<u>Leersia</u> <u>oryzoides</u>--Rice cut grass

Lobelia siphilitica--Great blue lobelia

Mentha arvensis -- Wild mint

Mimulus ringens--Monkey flower

Panicum capillare -- Witch grass

<u>Panicum</u> <u>dichotomiflorum</u>--Knee grass

<u>Penthorum</u> <u>sedoides</u>--Ditch stonecrop

Persicaria lapathifolia--Heart's-ease

Plantago rugelii -- Red-stalked plantain

Populus deltoides -- Cottonwood

Potentilla norvegica--Norway cinquefoil

Rorippa palustris -- Rough marsh cress

PCA 1 cont. Native Species

Salix discolor -- Pussy willow

<u>Scirpus</u> <u>atrovirens</u>--Green bulrush

Scirpus pendulus--Red bulrush

<u>Solidago</u> <u>altissima</u>--Tall goldenrod

Solidago gigantea -- Giant goldenrod

<u>Symphyotrichum</u> <u>puniceum</u>--Red-stemmed aster

Verbena hastata--Blue vervain

Veronica peregrina--Purslane speedwell

Xanthium strumarium--Cocklebur

NON-Native Species

<u>Abutilon</u> <u>theophrasti</u>--Velvet-leaf

Centaurium pulchellum--Centaury

Cirsium arvense--Canada thistle

Echinochloa crusgalli--Barnyard grass

Hibiscus trionum--Flower-of-the-hour

Hordeum jubatum -- Squirreltail

<u>Lythrum</u> <u>salicaria</u>--Purple loosestrife

Persicaria maculosa--Lady's thumb

Phalaris arundinacea -- Reed canary grass

Phragmites australis subsp. australis -- Tall reed grass

<u>Puccinellia</u> <u>distans</u>--Alkali grass

<u>Thlaspi</u> <u>arvense</u>--Penny cress

Typha angustifolia -- Narrow-leaved cat-tail

Total number of plant species: 52

Number of alien, or non-native, plant species: 13 (25 percent)

This approximately 16.8-acre plant community area consists primarily of atypical (farmed) wetland with smaller areas of fresh (wet) meadow and shallow marsh. Disturbances to the plant community area include past clearing of vegetation, siltation and sedimentation due to stormwater runoff from adjacent lands, water level changes due to tile installation and draining, and agricultural land management activities such as cultivation and herbicide applications. While no Federal- or State-designated Special Concern, Threatened, or Endangered species were observed during the field inspection, the WDNR Natural Heritage Inventory contains records of two State-designated Endangered and two Special Concern bird species in nearby Big Muskego Lake.

Plant Community Area No. 2 - Native Species

Acer negundo--Boxelder

Cyperus esculentus -- Chufa

Echinocystis lobata -- Wild cucumber

Equisetum hyemale--Scouring-rush

Fraxinus pennsylvanica -- Green ash

Juncus dudleyi--Dudley's rush

Lobelia siphilitica -- Great blue lobelia

<u>Panicum</u> <u>capillare</u>--Witch grass

Populus deltoides--Cottonwood

Salix amygdaloides -- Peach-leaved willow

Salix interior -- Sandbar willow

PCA 2 cont. Native Species

<u>Solidago</u> <u>altissima</u>--Tall goldenrod <u>Solidago</u> <u>gigantea</u>--Giant goldenrod <u>Symphyotrichum</u> <u>lanceolatum</u>--Marsh aster <u>Symphyotrichum</u> <u>puniceum</u>--Red-stemmed aster <u>Vitis</u> <u>riparia</u>--Riverbank grape <u>Xanthium</u> <u>strumarium</u>--Cocklebur

NON-Native Species.

<u>Agrostis</u> <u>gigantea</u>--Redtop grass <u>Phalaris</u> <u>arundinacea</u>--Reed canary grass <u>Rhamnus</u> <u>cathartica</u>--Common buckthorn <u>Solanum</u> <u>dulcamara</u>--Deadly nightshade

Total number of plant species: 21

Number of alien, or non-native, plant species: 4 (19 percent)

This approximately 7.00-acre plant community area consists of shrub-carr (willow thicket) and hardwood swamp. Disturbances to the plant community area include clearing of vegetation, siltation and sedimentation due to stormwater runoff from adjacent lands, water level changes due to tile installation and draining, and agricultural land management activities such as cultivation and herbicide applications. While no Federal- or State-designated Special Concern, Threatened, or Endangered species were observed during the field inspection, the WDNR Natural Heritage Inventory contains records of two State-designated Endangered and two Special Concern bird species in nearby Big Muskego Lake.

Plant Community Area No. 3 - Native Species

<u>Carex</u> <u>vulpinoidea</u>--Fox sedge

NON-Native Species

Agrostis stolonifera -- Creeping bentgrass

<u>Glechoma</u> <u>hederacea</u>--Creeping Charlie <u>Phalaris</u> <u>arundinacea</u>--Reed canary grass <u>Plantago</u> <u>major</u>--Common plantain

Poa pratensis--Kentucky bluegrass

<u>Rumex crispus</u>--Curly dock <u>Taraxacum officinale</u>--Common dandelion <u>Trifolium repens</u>--White clover

Total number of plant species: 9

Number of alien, or non-native, plant species: 8 (89 percent)

This approximately 0.1-acre wetland plant community area is part of a constructed roadside ditch and consists of degraded fresh (wet) meadow. Disturbances to the plant community area include mowing, siltation and sedimentation due to stormwater runoff from adjacent lands, and water level changes due to ditching. No Federal- or State-designated Special Concern, Threatened, or Endangered species were observed during the field inspection.

Plant Community Area No. 4 - Native Species

Acer negundo--Boxelder

Bidens sp.--Beggars-ticks

<u>Calamagrostis</u> <u>canadensis</u>--Canada bluejoint

<u>Carex</u> <u>granularis</u>--Pale sedge

Carex grisea -- Wood gray sedge

Carex sp.--Sedge

Circaea canadensis -- Enchanter's nightshade

Cornus alba--Red-osier dogwood

Epilobium coloratum--Willow-herb

<u>Eutrochium</u> <u>maculatum</u>--Joe-Pye weed

Fraxinus pennsylvanica -- Green ash (dying or dead)

Geum canadense--White avens

Impatiens capensis--Jewelweed

Iris virginica--Virginia blueflag

<u>Lemna minor</u>--Lesser duckweed

<u>Lobelia</u> <u>siphilitica</u>--Great blue lobelia

Persicaria amphibia--Water smartweed

Persicaria lapathifolia -- Heart's-ease

Populus tremuloides -- Quaking aspen

<u>Prunella</u> <u>vulgaris</u>--Selfheal

<u>Pycnanthemum</u> <u>virginianum</u>--Mountainmint

<u>Ranunculus</u> <u>sceleratus</u>--Cursed crowfoot

Ribes americanum -- Wild black currant

Salix amygdaloides -- Peach-leaved willow

Schoenoplectus pungens--Chairmaker's-rush

Schoenoplectus tabernaemontani--Soft-stemmed bulrush

<u>Symphyotrichum</u> <u>lateriflorum</u>--Calico aster

Typha latifolia -- Broad-leaved cattail

<u>Verbena</u> <u>hastata</u>--Blue vervain

<u>Viburnum</u> <u>lentago</u>--Nannyberry

Vitis riparia -- Riverbank grape

NON-Native Species

Agrostis gigantea -- Redtop grass

<u>Catalpa</u> <u>speciosa</u>--Catalpa (planted)

<u>Franqula</u> <u>alnus</u>--Glossy buckthorn

Hesperis matronalis--Dame's rocket

<u>Lythrum</u> <u>salicaria</u>--Purple loosestrife

Phragmites australis subsp. australis -- Tall reed grass

<u>Physalis</u> <u>alkekengi</u>--Ground-cherry

Picea pungens -- Colorado blue spruce (planted)

Plantago major -- Common plantain

Poa pratensis -- Kentucky bluegrass

Populus alba--White poplar

Rhamnus cathartica -- Common buckthorn

Setaria pumila -- Yellow foxtail

<u>Solanum</u> <u>dulcamara</u>--Deadly nightshade

<u>Taraxacum</u> <u>officinale</u>--Common dandelion

Typha angustifolia -- Narrow-leaved cat-tail

<u>Viburnum</u> <u>opulus</u>--European highbush-cranberry

PCA 4 cont.

Total number of plant species: 48

Number of alien, or non-native, plant species: 17 (35 percent)

This approximately 28.9-acre plant community area is part of the Big Muskego Lake floodplain-wetland complex and consists of deep and shallow marsh, fresh (wet) meadow, shrub-carr (buckthorn thicket), hardwood swamp, and open water. Disturbances to the plant community area include dumping, filling, pond and channel excavation, side casting of dredge spoil material, siltation and sedimentation due to stormwater runoff from adjacent lands, and water level changes due to ditching and draining. While no Federal- or State-designated Special Concern, Threatened, or Endangered species were observed during the field inspection, the WDNR Natural Heritage Inventory contains records of two State-designated Endangered and two Special Concern bird species in Big Muskego Lake. Further the southern portion of this PCA has been identifies as a Natural Area of countywide or Regional significance (NA-2), known as Muskego Lake Marsh, in the December, 2010, Amendment to the Natural Areas and Critical Species Habitat Protection and Management Plan for the Southeastern Wisconsin Region.

SVY4588 CA722-246

Exhibit 9.

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: <u>Lynn Kurer and Wayne Bushberger Properties</u> Cit	y/County: Cit	ty of Muskego/	/Waukesha C		Sampling Date: <u>08/28/2019</u>
Applicant/Owner:				_	Sampling Point: <u>1</u>
nvestigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC				1/4 Section 14, T5N, R20E	
_andform (hillslope, terrace, etc.): <u>slight toeslope>depression</u> Slope (%): <u>2-6%</u> Lat: Long	Locai j:	relier (concav	e, convex, no	one): <u>concave</u>	Datum:
Soil Map Unit Name: Ozaukee silt loam (OzaB)	j. <u> </u>				etland too small to delineate
Are climatic/hydrologic conditions on the site typical for this time o	f year?	Yes ⊠ N	o ☐ (If no	o, explain in Remarks)	Charle too Smail to domicato
Are Vegetation, Soil, or Hydrology significantly		Are "Normal		ces" present? Yes	No 🗆
Are Vegetation, Soil, or Hydrology naturally pro				answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling	g point locati	ions, transect	s, important	features, etc.	
Hydrophytic Vegetation Present? ☑Yes □No		Is the Samp		_	_
Hydric Soils Present? ☐ Yes ☐ No		within a We	tland?	⊠ Yes	□No
Wetland Hydrology Present? ☐ Yes ☐ No					
Remarks: 90-day antecedent precipitation is normal.					
VEGETATION – Use scientific names of plants.					
·	Absolute	Dominant	Indicator		
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test wor	rksheet:
1		. П		Number of Dominant Sp	ecies
2		П		That are OBL, FACW, or	r FAC: <u>2</u> (A)
3	· 		<u></u>	Total Number of Domina	unt
				Species Across All Strata	
4					<u> </u>
5				Percent of Dominant Spe	
	<u>0</u>	= Total Cov	ver	That Are OBL, FACW, or	` '
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index work	sheet:
1				Total % Cover of:	Multiply by:
2		П		OBL species	x 1 =
	· <u></u>	_	<u></u>	· —	
3				FACW species	x 2 =
4		Ш		FAC species	x 3 =
5		П		FACU species	x 4 =
	<u>0</u>	= Total Cov	ver	UPL species	x 5 =
Herb Stratum (Plot size: 5' radius)				Column Totals:	(A) (B)
1. Cyperus esculentus	<u>35</u>	\boxtimes	FACW	Prevalence li	ndex = B/A =
	<u>30</u>	\boxtimes	OBL	Hydrophytic Vegetation	
2. <u>Eleocharis obtusa</u>		_			
3. <u>Veronica peregrina</u>	<u>15</u>	브	<u>FACW</u>	☐ 1 - Rapid Test for Hy	
4. Erigeron canadensis	<u>5</u>		<u>FACU</u>	2 - Dominance Test	
5. Amaranthus tuberculatus	<u>3</u>		<u>OBL</u>	3 - Prevalence Index	laptations¹ (Provide supporting
6. Echinochloa crus-galli	<u>3</u>		FACW		or on a separate sheet)
7. Persicaria lapathifolia	<u>2</u>	П	<u>FACW</u>		ophytic Vegetation¹ (Explain)
	=	_			
8		Ц		1 Indicators of hydric soil	and watland bydrology must
9		Ш		Be present, unless distu	and wetland hydrology must
10		П		Bo procent, amose dictal	ibod of problematic.
	93	= Total Cov	ver		
Woody Vine Stratum (Plot size: 30' radius)	_				
				Hydrophytic	
1		Ц		Vegetation Present? Yes	⊠ No □
2					
	<u>0</u>	= Total Cov			
Remarks: (Include photo numbers here or on a separate sheet	.) Vegetation	n has been re	ecently herb	icided but was still able	to be identified. Atypical
(farmed) wetland/fresh (wet) meadow.					

SOIL Sampling Point: 1

							bsence of indicators.)	
Depth	Matrix			Redox Feat			<u> </u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-13	10YR 4/2	97	7.5YR 3/4	3	С	PL M	Silty clay loam	
3-24	10YR 4/3	98	10YR 3/6	2	C	PL M	Clay loam	
	·							
				<u> </u>			-	
			-				- 1	
• •	Concentration, D=Depl	etion, RN	M=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	<u> </u>
-	il Indicators:			Candy Clay	uad Matrix (C	• 4 \		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)		<u> </u>	Sandy Gle	yed Matrix (S lox (S5)	94)	☐ Coast Prairie I☐ Dark Surface	
	Black Histic (A3)		끔	Stripped M	, ,			se Masses (F12)
	Hydrogen Sulfide (A4)		<u> </u>		cky Mineral (F1)		Dark Surface (TF12)
	Stratified Layers (A5)			_ Loamy Gle	yed Matrix (F	-2)	Other (Explain	
	2 cm Muck (A10)			Depleted I	Matrix (F3)			
	Depleted Below Dark S	•	A11) 🔲		k Surface (F	,		
	Thick Dark Surface (A	,			Oark Surface			pphytic vegetation and
	Sandy Mucky Mineral (. ,		_Redox Dep	oressions (F8	5)		logy must be present,
	5 cm Mucky Peat or Pe	eat (S3)					Unless disturbe	ed or problematic.
	e Layer (if observed):						Hudria Cail Dragont	2 Vac⊠ No □
	 h (inches):						Hydric Soil Present	? Yes⊠ No □
emarks:								
DROLO								
Wetland I	Hydrology Indicators:							
Wetland I			is required; check all	that apply)			Secondary Indi	cators (minimum of two required)
Wetland I	Hydrology Indicators:				ed Leaves (Bs	9)		cators (minimum of two required) oil Cracks (B6)
Wetland I	Hydrology Indicators: ary Indicators (minimur	n of one				9)	Surface S	· · · · · · ·
Wetland I	Hydrology Indicators: ary Indicators (minimur Surface Water (A1)	n of one		Water-Staine Aquatic Faun			Surface S Drainage	oil Cracks (B6)
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WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 2 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): slight slope Local relief (concave, convex, none): linear Slope (%): 2-6% Lat: Datum: Long: _ Soil Map Unit Name: Ozaukee silt loam (OzaB) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 67% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FACU** 2. Thlaspi arvense 18 \boxtimes **FACW** 3. Panicum dichotomiflorum ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> П **FACW** 4. Veronica peregrina 3 - Prevalence Index is ≤3.0¹ <u>5</u> **OBL** 5. Amaranthus tuberculatus ☐ 4 - Morphological Adaptations¹ (Provide supporting 3 **FACU** 6. Taraxacum officinale data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided but was still able to be identified. Agricultural field.

86

0

= Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

10. ____

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

Profile Description: (Description: Clearing to the depth needed to document the indicator or confirm the absence of indicators.)	OIL									Sampiir	ig Point: 2	<u> </u>	
Torkine Color (moist) % Color (moist) % Type Loc Toxture Remarks	Profile De	escription: (Describe to	o the depth	n needed to	docum	nent the ind	icator or cor	nfirm the a	absence o	f indicators.)			
Clay loam	Depth	Matrix				Redox Fea	tures						
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains		Color (moist)	%	Color (m	ioist)	%	Type ¹	Loc ²		Texture		Remar	ks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains 1,0cation: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils* History History History History Hydric Soil History History History Hydrocy Hydrocy History History Hydrocy Hydrocy Hydrocy Hydrocy History Hydrocy Hydrocy Hydrocy Hydrocy Hydrocy Sufface (A12)	, ,		100						Clay loa	ım	-		
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Histle Epipedon (A2)	,					Sandv Gle	ved Matrix (S	64)					•
Black Histic (A3)		_			=	_		,				- /	
Stratified Layers (A5)		Black Histic (A3)				Stripped M	1atrix (S6)		_	☐ Iron-Mangane	se Masse	es (F12)	
Carm Muck (Ar10)						Loamy Mu	cky Mineral (F1)	_	☐ Very Shallow	Dark Surf	face (TF12)	
Depleted Below Dark Surface (A11)						_		- 2)	_	Other (Explain	n in Rema	ırks)	
		_ ` ′				_							
Sandy Mucky Mineral (S1)		_	•	1)	_ <u></u>	_	,	,					
Scm Mucky Peat or Peat (S3)		_			님				3				
Remarks: No hydric soil indicators observed. Proper Hydric Soil Present? Yes No		-				_ Redux De	pressions (Fo))					,
Type:	Postrictiv									Uniess disturb	ea or pro	olematic.	
Depth (inches): Remarks: No hydric soil indicators observed. Remarks: No hydric soil indicators observed.	Veznicni								ш	dric Soil Brosont	2 V	oc □ No	. 🖂
National Homeonic Present? Present Present? Present? Present Previous Previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Type								Пу	unc 3011 Fresent		es	
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Algal Mat or Crust (B4)	Remarks: IYDROL Wetland Prin	OGY Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2) Saturation (A3)	: m of one is		V	Water-Staine Aquatic Faur Frue Aquatic	na (B13) : Plants (B14))		Surface S Drainage Dry-Seas	Soil Cracks Patterns on Water	s (B6) (B10) Table (C2)	wo required)
Iron Deposits (B5)	Remarks: IYDROL Wetland Prin	OGY Hydrology Indicators: hary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	: m of one is		V	Nater-Staine Aquatic Faur Irue Aquatic Hydrogen St	na (B13) : Plants (B14) ulfide Odor (C) (1)	oots (C3)	Surface S Drainage Dry-Seas Crayfish I	Soil Cracks Patterns on Water Burrows (6	s (B6) (B10) Table (C2) C8)	· ·
□ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No ☑ Depth (inches): □ Water Table Present? Yes □ No ☑ Depth (inches): □ Water Table Present? Yes □ No ☑ Depth (inches): □ Wetland Hydrology Present? Yes □ No ☑ Depth (inches): 20 Wetland Hydrology Present? Yes □ No ☑ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Prin	OGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B	: m of one is		V	Nater-Staine Aquatic Faur Frue Aquatic Hydrogen St Dxidized Rh	na (B13) : Plants (B14) ulfide Odor (C izospheres or) C1) n Living Ro	oots (C3)	Surface S Drainage Dry-Seas Crayfish I Saturation	Soil Cracks Patterns on Water Burrows (0	s (B6) (B10) Table (C2) C8) on Aerial Ima	agery (C9)
□ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No ☑ Depth (inches): □ Water Table Present? Yes □ No ☑ Depth (inches): □ Water Table Present? Yes □ No ☑ Depth (inches): □ Wetland Hydrology Present? Yes □ No ☑ Depth (inches): 20 Wetland Hydrology Present? Yes □ No ☑ Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Nemarks: IYDROL Wetland Prin	OGY Hydrology Indicators: hary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	: m of one is 2)		V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Dxidized Rhi Presence of	na (B13) Plants (B14) ulfide Odor (C izospheres or Reduced Iror) C1) n Living Ro n (C4)		Surface S Drainage Dry-Seas Crayfish B Saturation Stunted of	Soil Cracks Patterns on Water Burrows (0 n Visible or	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	agery (C9)
□ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No ☑ Depth (inches): □ Water Table Present? Yes □ No ☑ Depth (inches): □ Wetland Hydrology Present? Yes □ No □ Depth (inches): □ Obscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Prin	OGY Hydrology Indicators: hary Indicators (minimul) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4)	: m of one is 2)		V V V V V V V V V V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Dxidized Rhi Presence of Recent Iron	na (B13) Plants (B14) Ulfide Odor (C izospheres or Reduced Iror) C1) n Living Ro n (C4)		Surface S Drainage Dry-Seas Crayfish B Saturation Stunted of	Patterns on Water Burrows (On Visible on Stressed	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	agery (C9)
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Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): 20 Wetland Hydrology Present? Yes No Depth (inches): 20 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	BYDROL Wetland Prin	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	: m of one is 2) 32) 4) Aerial Imag	required; ch	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Dxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) E Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)) c1) n Living Ro n (C4) Tilled Soils		Surface S Drainage Dry-Seas Crayfish B Saturation Stunted of	Patterns on Water Burrows (On Visible on Stressed	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	agery (C9)
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Saturation Present? Yes No Depth (inches): 20 Wetland Hydrology Present? Yes No Depth (inches): 20 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Prin	OGY Hydrology Indicators: hary Indicators (minimul) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations:	en of one is 2) 32) Aerial Imag	required; ch	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Expla	na (B13) E Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks) c1) n Living Ro n (C4) Tilled Soils		Surface S Drainage Dry-Seas Crayfish B Saturation Stunted of	Patterns on Water Burrows (On Visible on Stressed	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	agery (C9)
(includes capillary fringe) Wetland Hydrology Present? Yes No 🗵 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Nemarks: SYDROL Wetland Prin	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations:	: m of one is 2) 32) Aerial Imag Concave Sur	required; ch gery (B7) urface (B8) o ⊠ Dep		Water-Staine Aquatic Faur Frue Aquatic Hydrogen Staine Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Explaines):	na (B13) E Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks) c1) n Living Ro n (C4) Tilled Soils		Surface S Drainage Dry-Seas Crayfish B Saturation Stunted of	Patterns on Water Burrows (On Visible on Stressed	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	agery (C9)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial photos (Exhibit 4).	Prin	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C servations: Water Present?	es No	gery (B7) urface (B8) O 🛛 Dep		Water-Staine Aquatic Faur Frue Aquatic Hydrogen Staine Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Explaines):	na (B13) E Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks) c1) n Living Ro n (C4) Tilled Soils		Surface S Drainage Dry-Seas Crayfish B Saturation Stunted of	Patterns on Water Burrows (On Visible on Stressed	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1	agery (C9)
Map (Exhibit 3), and Aerial photos (Exhibit 4).	Remarks: IYDROL Wetland Prin	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C servations: Water Present? In Present? Yellogy The Company of the Company	es No	gery (B7) urface (B8) O 🛛 Dep		Water-Staine Aquatic Faur Frue Aquatic Hydrogen Staine Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Explaines):	na (B13) E Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks) c1) n Living Ro n (C4) Tilled Soils	s (C6)	Surface S Drainage Dry-Seas Crayfish I Saturation Geomorp FAC-Neu	Patterns on Water Surrows ((n Visible or Stressed hic Positio	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1 on (D2) (D5)	agery (C9))
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Remarks: Only one secondary indicator of wetland hydrology observed.	Prin Prin Prin Prin Prin Prin Prin Prin	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Water Present? In Present?	Em of one is 2) Aerial Imag Concave Sur es	required; ch	V A A A A A A A A A A A A A A A A A A A	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Explaines): mes): mes): mes): 20	na (B13) Plants (B14) Ilfide Odor (C Ezospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	c1) n Living Ro n (C4) Tilled Soils	(C6)	Surface S Drainage Dry-Seas Crayfish I Saturation Stunted o Geomorp FAC-Neu	patterns on Water Burrows (on Visible or Stressed hic Position tral Test	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1 on (D2) (D5)	agery (C9)) o ⊠
	Prin Pr	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Water Present? In Present?	Em of one is 2) Aerial Imag Concave Sur es	required; ch	Pth (incher)	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Explaines):	na (B13) E Plants (B14) Ulfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	c1) n Living Ro n (C4) Tilled Soils	(C6)	Surface S Drainage Dry-Seas Crayfish I Saturation Stunted o Geomorp FAC-Neu	patterns on Water Burrows (on Visible or Stressed hic Position tral Test	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1 on (D2) (D5)	agery (C9)) o ⊠
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	Prin Pr	OGY Hydrology Indicators: nary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Water Present? In Present?	Em of one is 2) Aerial Imag Concave Sur es	required; ch	Pth (incher)	Water-Staine Aquatic Faur Frue Aquatic Hydrogen St Dxidized Rhi Presence of Recent Iron Fhin Muck S Gauge or We Other (Explaines):	na (B13) E Plants (B14) Ulfide Odor (C izospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	c1) n Living Ro n (C4) Tilled Soils	(C6)	Surface S Drainage Dry-Seas Crayfish I Saturation Stunted o Geomorp FAC-Neu	patterns on Water Burrows (on Visible or Stressed hic Position tral Test	s (B6) (B10) Table (C2) C8) on Aerial Ima d Plants (D1 on (D2) (D5)	agery (C9)) o ⊠

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 3 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2-6% Lat: Datum: Long: _ Soil Map Unit Name: Ozaukee silt loam (OzaB) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 2 **FACW** Prevalence Index = B/A = 1. Cyperus esculentus **Hydrophytic Vegetation Indicators:** <u>2</u> \boxtimes **OBL** 2. Typha angustifolia ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ П 5. ____ ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided and plowed but was still able to be identified. The edge of the agricultural field was dominated with Phalaris arundinacea (FACW). Atypical (farmed) wetland.

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

SOIL Sampling Point: 3

Profile De	scription: (Describe t	o the dep	oth needed to docu	ment the ind	licator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	10YR 4/2	96	7.5YR 3/4	4	С	PL M	Silt loam	
8-18	10YR 4/2	100					Silt loam	
18+								Too wet to pull up.
		-		_				-
		-		_				
							_	
,,	Concentration, D=Dep	letion, RM	1=Reduced Matrix, N	/IS=Masked S	Sand Grains		² Location: PL=Pore	<u> </u>
	il Indicators:		_	7. O		. 4 \		ematic Hydric Soils³:
	Histosol (A1) Histic Epipedon (A2)		<u> </u>	Sandy Gle Sandy Red	eyed Matrix (S	54)	Coast Prairie Dark Surface	
	Black Histic (A3)		누	Stripped M	, ,		Iron-Mangane	
	Hydrogen Sulfide (A4)	1	一		icky Mineral (I	F1)		Dark Surface (TF12)
	Stratified Layers (A5)			 Loamy Gle	eyed Matrix (F	- 2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)		Σ	Depleted	Matrix (F3)			
	Depleted Below Dark	,	\11) <u> </u>		rk Surface (F6	,		
	Thick Dark Surface (A	,	Ļ		Dark Surface		,	ophytic vegetation and
	Sandy Mucky Mineral		_ <u>L</u>	T Kedox Del	pressions (F8	5)	-	logy must be present,
	5 cm Mucky Peat or P e Layer (if observed):						Uniess disturb	ed or problematic.
	e Layer (ii observed). e:						Hydric Soil Present	? Yes⊠ No □
	h (inches):						Tryunc don't resem	163 🖂 110 🖂
Remarks:								
IYDROL	OGY							
Wetland	Hydrology Indicators	:						
Prim	ary Indicators (minimu	m of one	is required; check al	l that apply)			Secondary Ind	icators (minimum of two required)
	Surface Water (A1)		П	Water-Staine	ed Leaves (B9	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A	.2)	一	Aquatic Faur	,	-,		Patterns (B10)
\boxtimes	Saturation (A3)	,	<u> </u>		: Plants (B14)	١		on Water Table (C2)
	Water marks (B1)		<u>-</u>		ulfide Odor (C			Burrows (C8)
	Sediment Deposits (E	32)	<u> </u>		izospheres or	,		n Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	52)	믐		Reduced Iron	_	<u> </u>	r Stressed Plants (D1)
		4)				` '		phic Position (D2)
	Algal Mat or Crust (B	+)			Reduction in	ii iiileu S		` ,
무	Iron Deposits (B5)	A! - 1 1		Thin Muck S	` ,		FAC-Neu	tral Test (D5)
무	Inundation Visible on		- · · · · —	Gauge or We		,		
Field Ob	Sparsely Vegetated (servations:	Concave S	Surface (B8)	Other (Expla	in in Remarks	s)		
		es 🗌	No ⊠ Depth (in	choc):				
			,		=			
				ches): <u>0.5</u>				
	n Present? Y capillary fringe)	es 🛚	No Depth (in	ches): <u>0 (at s</u>	<u>ыпасе)</u>		Wetland Hydrology Prese	nt? Yes⊠ No 🏻
,								
	Recorded Data (strear ibit 3), and Aerial photo		_	al photos, pre	vious inspect	ions), if av	allable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
				aview as is li	ies at the ed	lae of the	agricultural field near a fe	ence line with shrubs and
	at create shadows or		•	OVICW GO IO II	.55 41 1115 60	490 OI IIIC	agnoditara nota near a n	onee mie with siliups allu
			•					

WETLAND DETE	DMINIATIO	N DATA E		idwest Pegion
WETLAND DETE Project/Site: Lynn Kurer and Wayne Bushberger Properties				
Applicant/Owner:	only/county. on	ty or widokogo/	Waakoona C	State: WI Sampling Point: 4 & Probe 1
Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC				1/4 Section 13, T5N, R20E
Landform (hillslope, terrace, etc.): hillslope		relief (concav	e, convex, no	·
Slope (%): <u>2-6%</u>	ong:			Datum: NWI classification: <u>none</u>
Are climatic/hydrologic conditions on the site typical for this time	e of vear?	Yes ⊠ N	o □ (If n	o, explain in Remarks)
Are Vegetation, Soil, or Hydrology significar		· 	_ `	ces" present? Yes 🖂 No 🗌
Are Vegetation, Soil, or Hydrology naturally	problematic?	(If, needed,	explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampl	ing point locati	ions, transect	s, important	features, etc.
		Is the Samp	lad Araa	
Hydrophytic Vegetation Present?		within a We		☐ Yes
Wetland Hydrology Present?				
Remarks: 90-day antecedent precipitation is normal. P	robe site 1 wa	s inspected in	n a slight de	epression just west of sample point 4 near a
NRCS "wet spot" shown on the WWI mapping (Exhibi	•	-		sent at the probe site, hydric soils and hydrophytic
vegetation were not present. Therefore, wetland was	not present at	the probe sit	e.	
VEGETATION – Use scientific names of plants.				
Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Daminanaa Taat waxkahaat
,	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)
2				That are OBE, FACW, OF FAC. 2 (A)
3				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species
	<u>0</u>	= Total Cov	ver	That Are OBL, FACW, or FAC: 67% (A/B)
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4		П		FAC species x 3 =
5				FACU species x 4 =
	<u>0</u>	= Total Cov	ver	UPL species x 5 =
Herb Stratum (Plot size: <u>5' radius</u>)				Column Totals: (A) (B)
1. Panicum dichotomiflorum	<u>3</u>	\boxtimes	FACW	Prevalence Index = B/A =
2. <u>Cirsium arvense</u>	1	\boxtimes	<u>FACU</u>	Hydrophytic Vegetation Indicators:
3. <u>Veronica peregrina</u>	<u>1</u>	\boxtimes	FACW	☐ 1 - Rapid Test for Hydrophytic Vegetation
4				
5				☐ 3 - Prevalence Index is ≤3.0¹☐ 4 - Morphological Adaptations¹ (Provide supporting
6				data in Remarks or on a separate sheet)
7		П		☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain)
8		П		
9		П		¹ Indicators of hydric soil and wetland hydrology must
				Be present, unless disturbed or problematic.
10				
W. 1 V. C. 1 (7) (1) (2)	<u>5</u>	= Total Cov	vei	
Woody Vine Stratum (Plot size: 30' radius)		_		Hydrophytic
1 4				Vegetation

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided and plowed but was still able to be identified. Agricultural field.

0

☐ = Total Cover No 🗌

Yes ⊠

Present?

OIL									Sampling) Point: <u>4</u>	
Profile De	scription: (Describe t	o the depth	needed to	docum	ent the ind	icator or con	firm the	absence	e of indicators.)		
Depth	Matrix				Redox Fea	tures					
(inches)	Color (moist)	%	Color (mo	ist)	%	Type ¹	Loc ²		Texture	Remarks	3
0-11	10YR 3/3	100			-			Clay	loam		
11-24	7.5YR 3/4	100			-				clay loam		
11-24	7.511(5/4	100							Diay Idam		
	-								_		
					· 						
	·										
	<u> </u>										
1T C-	Composition D-Don	lation DM-I	Dadwaad Mad	haire NAC	2-Mkd C	Sand Oneine			21tion. DI -Dono	Limina Mandala	
	Concentration, D=Dep	ietion, Rivi=i	Reduced Ma	ITIX, IVIS	5=Masked S	and Grains			² Location: PL=Pore Indicators for Proble	U .	
_	Histosol (A1)			П	Sandy Gle	yed Matrix (S	4)	Į	Coast Prairie R		
	Histic Epipedon (A2)			青	Sandy Red		• /		Dark Surface (
	Black Histic (A3)				Stripped M	, ,			Iron-Manganes	•	
	Hydrogen Sulfide (A4)				Loamy Mu	cky Mineral (F	1)		Very Shallow D	Oark Surface (TF12)	
	Stratified Layers (A5)				_	eyed Matrix (F	2)		Other (Explain	in Remarks)	
	2 cm Muck (A10)				Depleted I						
	Depleted Below Dark	•	1)			rk Surface (F6	,				
	Thick Dark Surface (A			닏		Dark Surface (-			phytic vegetation and	
	Sandy Mucky Mineral			_Ц	_Redox De	pressions (F8))			ogy must be present,	
	5 cm Mucky Peat or P	. ,						1	Unless disturbe	d or problematic.	
	e Layer (if observed):										
Type	: :h (inches):								Hydric Soil Present?	Yes ☐ No	\boxtimes
	No hydric soil indicat	toro obcor	rod.								
i terriarks.	140 flydric 30ii ilidicai	tora obaci t	rcu.								
HYDROL	nev										
	Hydrology Indicators										
			raquiradı aba	المياه	that apply				Cocondon India	atora (minimum of tur	o required)
Prim	nary Indicators (minimu	m of one is	requirea; cne	ck all t	<u>(nat apply)</u>				Secondary Indic	cators (minimum of two	<u>o requirea)</u>
	Surface Water (A1)		_	<u> </u>	Water-Staine	ed Leaves (B9)		Surface Sc	oil Cracks (B6)	
	High Water Table (A2	2)			Aquatic Faur	na (B13)			☐ Drainage F	Patterns (B10)	
	Saturation (A3)		_	<u> </u>	Γrue Aquatio	Plants (B14)			☐ Dry-Seaso	n Water Table (C2)	
	Water marks (B1)		_			ulfide Odor (C	1)			Burrows (C8)	
	Sediment Deposits (E	32)	=		-	izospheres on	•	oots (C3		Visible on Aerial Imag	iery (C9)
	Drift Deposits (B3)	<i>'</i> -,	=			Reduced Iron	_	(00	· ——	Stressed Plants (D1)	(00)
	. , ,	4)	_				` '	o (CC)		` ′	
	Algal Mat or Crust (B4	+)	-			Reduction in T	illed 30ll	s (CO)		ic Position (D2)	
	Iron Deposits (B5)				Γhin Muck S				_⊠ FAC-Neuti	ral Test (D5)	
	Inundation Visible on	ŭ	· · · / -	<u> </u>	Gauge or We	ell Data (D9)					
	Sparsely Vegetated C	Concave Sur	rface (B8)		Other (Expla	in in Remarks)	1			
	servations:										
Surface V	Vater Present? Y	es 🗌 No	Dept	th (inch	nes):	:					
Water Ta	ble Present? Y	es 🗌 No	Dept	th (inch	nes):						
Saturation	n Present? Y	es 🛛 No	Dept	th (inch	nes): <u>23</u>			Wetlar	nd Hydrology Presen	t? Yes⊠ No	
(includes	capillary fringe)							vvetiai	ia riyarology i resen	it: les 🖂 No	Ш
Describe	Recorded Data (strean	n gauge, mo	onitoring well	, aerial	photos, pre	vious inspecti	ons), if av	vailable:	Topo Maps (Exhibit 1), WWI Map (Exhibit 2	2), Soils
	ibit 3), and Aerial photo		-	-	. //	,	,,	•			
Remarks	·										

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 5 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **OBL** Prevalence Index = B/A = 1. Eleocharis obtusa **FACW Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes 2. Cyperus esculentus 15 OBL 3. Rorripa palustris ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П **FACW** 4. Veronica peregrina 3 - Prevalence Index is ≤3.0¹ П <u>10</u> **FAC** 5. Panicum capillare ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

87

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

SOIL Sampling Point: 5

Profile De	scription: (Describe t	to the dep	oth needed to docur	nent the ind	icator or con	firm the	absence of indicators.)	
Depth	Matrix			Redox Fea	tures		<u></u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-18	5Y 2.5/1	100					Silty clay loam	
18-24	5Y 4/1	75	10YR 4/6	25	С	PL M	Clay loam	
		-	-					
								-
		-				-	-	
		-					_	
	_		-				_	
¹Type: C=	Concentration, D=Dep	letion, RM	1=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	Lining, M=Matrix
	il Indicators:		·				Indicators for Proble	ematic Hydric Soils³:
	Histosol (A1)				yed Matrix (S	4)	Coast Prairie F	
	Histic Epipedon (A2)			Sandy Red	, ,		Dark Surface (
	Black Histic (A3) Hydrogen Sulfide (A4)			Stripped M	iatrix (S6) icky Mineral (I	E1)	Iron-Mangane	se Masses (F12) Dark Surface (TF12)
	Stratified Layers (A5))	井	_	eyed Matrix (F		Other (Explain	· ·
	2 cm Muck (A10)		- 	Depleted N	•	2)	Other (Explain	III Nelliaiks)
	Depleted Below Dark	Surface (A	A11)		rk Surface (F6	3)		
	Thick Dark Surface (•	, <u> </u>	Depleted [Dark Surface	, (F7)	³ Indicators of Hydro	phytic vegetation and
	Sandy Mucky Mineral	(S1)		_Redox De	pressions (F8)		ogy must be present,
	5 cm Mucky Peat or P	eat (S3)						ed or problematic.
	e Layer (if observed):							
	e:						Hydric Soil Present?	Yes⊠ No □
Dep Remarks:	th (inches):							
YDROL	OGY Hydrology Indicators							
	nary Indicators (minimu		is required; check all	that annly)			Secondary Indi	cators (minimum of two required)
	•	in or one	•					
<u> </u>	Surface Water (A1)				ed Leaves (B9	9)		oil Cracks (B6)
<u> </u>	High Water Table (A2	2)		Aquatic Faur				Patterns (B10)
	Saturation (A3)				Plants (B14)			on Water Table (C2)
	Water marks (B1)				ulfide Odor (C	,		Burrows (C8)
	Sediment Deposits (E	32)		Oxidized Rhi	izospheres or	Living Ro	oots (C3) Saturation	n Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	(C4)	Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)		Recent Iron I	Reduction in ⁻	Tilled Soils	s (C6)	ic Position (D2)
	Iron Deposits (B5)			Thin Muck S	urface (C7)		_ ☐ FAC-Neut	ral Test (D5)
	Inundation Visible on A	Aerial Imag	gery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated (Concave S	Surface (B8)	Other (Expla	in in Remarks	s)		
Field Ob	servations:							
Surface \	Water Present? Y	es 🗌	No 🛛 Depth (inc	hes):				
Water Ta	ble Present? Y	′es ⊠	No Depth (inc	hes): <u>23</u>				
Saturatio	n Present? Y	es ⊠	No Depth (inc	hes): <u>0 (at s</u>	urface)		w.a	
(includes	capillary fringe)			,	-		Wetland Hydrology Preser	nt? Yes⊠ No □
Describe	Recorded Data (strear	n gauge.	monitoring well. aeria	l photos, pre	vious inspect	ions). if av	/ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), Aerial photos (E		-				Faka (=aka	,,
Remarks	: The image review	indicated	I that 6 out of 8 (75	%) images	with normal	anteced	ent precipitation showed s	ignatures of inundation (SW-
	-		•				oly due a drain tile system.	-

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: __ State: WI Sampling Point: 6 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): broad swale Local relief (concave, convex, none): linear concave Slope (%): <u>1-3%</u> Datum: Lat: Long: _ Soil Map Unit Name: Elliott silt loam (EsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: <u>1</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>55</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** OBL <u>15</u> 2. Rorripa palustris 10 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 5 П **FACU** 4. Erigeron canadensis 3 - Prevalence Index is ≤3.0¹ 3 **FACW** 5. Persicaria lapathifolia ☐ 4 - Morphological Adaptations¹ (Provide supporting 3 FAC data in Remarks or on a separate sheet) 6. Plantago rugelii ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 2 NI 7. Rosa sp. 2 **FACU** 8. Solidago altissima ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided but was still able to be identified. Old field/agricultural field.

95

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

Depth (inches)	Cription: (Describe to Matrix Color (moist)			docun	Redox Feat		iiiiiii the a	ibsence or	indicators.)		
(inches)		0/			Redox Feat	ıres					
<u> </u>	Color (moist)					Type ¹		_	_		
10-14		<u>%</u>	Color (n	noist)	%	Туре	Loc ²		Texture	Remarks	
-	10YR 3/1	100						Silt loam			
14-24	5Y 5/2	70	2.5Y 4/4		30	C	PL M	Clay loam	1		
								-			
								-			
-								-			
-								-			
1Typo: C=C	oncentration, D=Depl	otion PM	I-Poducod M	latriy M	S-Maskad S	and Grains		21.0	cation: PL=Pore	ining M-Matrix	
Hydric Soil		etion, raiv	i-rteaucea iv	ialii, ivi	O-Masked O	and Grains				matic Hydric Soils ³ :	
,	listosol (A1)				Sandy Gley	ed Matrix (S	4)		Coast Prairie R		
	listic Epipedon (A2)				Sandy Red	. ,			<u> </u>		
	lack Histic (A3)			<u> </u>	Stripped M	, ,	- 4)	<u> </u>	Iron-Manganes		
	lydrogen Sulfide (A4) tratified Layers (A5)			_ <u></u>		cky Mineral (f yed Matrix (F	-	<u> </u>	very Snallow D _Other (Explain	ark Surface (TF12)	
	cm Muck (A10)			+	Depleted M		۷)		Other (Explain	iii Neillaiks)	
	epleted Below Dark S	Surface (A	\11)	一一	_	k Surface (F6	6)				
	hick Dark Surface (A				Depleted D	ark Surface ((F7)	³ ln	dicators of Hydro	ohytic vegetation and	
	andy Mucky Mineral				_Redox Dep	ressions (F8)		Wetland hydrolo	gy must be present,	
	cm Mucky Peat or Pe	eat (S3)							Unless disturbe	d or problematic.	
	Layer (if observed):								-i - 0 - ii D 10	Var D. Na. M	
Type: _ Depth	(inches):							нуа	ric Soil Present?	Yes ☐ No ⊠	
IYDROLO											
-	ydrology Indicators										
<u>Primar</u>	ry Indicators (minimui	m of one i	s required; cl	neck all	that apply)				Secondary Indic	ators (minimum of two re	<u>quired)</u>
8	Surface Water (A1)				Water-Staine	d Leaves (B9	9)		Surface So	il Cracks (B6)	
l —	High Water Table (A2)			Aquatic Faun					atterns (B10)	
\$	Saturation (A3)				True Aquatic	Plants (B14)			Dry-Seasor	n Water Table (C2)	
v	Water marks (B1)				Hydrogen Su	lfide Odor (C	1)		_⊠ Crayfish B	urrows (C8)	
\$	Sediment Deposits (B	2)			Oxidized Rhiz	zospheres on	Living Ro	ots (C3)	Saturation	Visible on Aerial Imagery	(C9)
	Drift Deposits (B3)				Presence of F	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)	
	Algal Mat or Crust (B	1)			Recent Iron F	Reduction in 7	Filled Soils	(C6)		c Position (D2)	
	ron Deposits (B5)				Thin Muck Su	ırface (C7)			FAC-Neutra	al Test (D5)	
	nundation Visible on		0 , (,		Gauge or We	ll Data (D9)					
	Sparsely Vegetated C	oncave S	Surface (B8)		Other (Explai	n in Remarks	5)				
Field Obse			u - 171 - D		I \						
					hes):						
Water Table					hes):						
		es 🖂	NO ∐ D€	ptn (inc	nes): <u>18</u>			Wetland H	ydrology Presen	t? Yes ☐ No 🏻	l
,		2 901190 1	monitoring w	ll corio	Inhotos prov	ious inspecti	iona) if av	oilabla: Tan	o Mana (Evhibit 1	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Coilo
	ecorded Data (stream it 3), and Aerial photo		_	atıla	i pilotos, prev	กอนจากจะเก	onoj, ii av	апаріс. 10р	o iniahs (Exilinir i	<i>)</i> , ****I Wap (Exhibit 2), S	פווטי
Map (Exhib											logy
Remarks:	The Geomorphic P	osition ([D2) indicato	r does	not apply du	ue a drain til	le system	n. Only one	-secondary indi	cator of wetland hydrol	logy
	The Geomorphic P	osition (I	D2) indicato	r does	not apply du	ue a drain til	le system	ı. Only one	-secondary indi	cator of wetland hydrol	logy
Describe Re	apillary fringe) ecorded Data (strean	n gauge, r	monitoring we	ell, aeria				ailable: Top	oo Maps (Exhibit 1	t? Yes ☐ No ☒), WWI Map (Exhibit 2), S	Soils

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 7 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>35</u> **FACW** Prevalence Index = B/A = 1. Persicaria lapathifolia **Hydrophytic Vegetation Indicators:** <u>30</u> \boxtimes **OBL** 2. Rorripa palustris 15 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 5 П **FACW** 4. Panicum dichotomiflorum 3 - Prevalence Index is ≤3.0¹ П ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

85

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

Durille De					!!! !		<u>`</u>	ng Point: <u>/</u>
Profile De		to tne dep	otn needed to			ntirm the	absence of indicators.)	
Depth	Matrix				Features		<u> </u>	
(inches)	Color (moist)	%	Color (mo	oist) %	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 2/1	100					Silty clay loam	
11-16	2.5Y 2.5/1	80	10YR 3/6	10	<u>C</u>	PL M	Clay loam	_
	2.5Y 4/1	10					_	
16-20	5Y 5/2	60	10YR 4/6	40	<u>C</u>	PL M	Silty clay loam	with dolomite
20-24	5Y 5/1	80	10YR 3/6	20	<u>C</u>	PL M	Sandy clay loam	
						_		
¹Type: C=	Concentration, D=Dep	oletion RN	M=Reduced Ma	triv MS=Maske	ad Sand Grains		² Location: PL=Por	e Lining M=Matrix
	il Indicators:	Dietion, Tai	i-iteduced ivia	uix, ivio-iviaske	d Sand Grains			lematic Hydric Soils³:
_	Histosol (A1)			☐ Sandy	Gleyed Matrix (S4)	☐ Coast Prairie	
	Histic Epipedon (A2)			Sandy	Redox (S5)		☐ Dark Surface	• •
	Black Histic (A3)				ed Matrix (S6)			ese Masses (F12)
	Hydrogen Sulfide (A4				Mucky Mineral			Dark Surface (TF12)
	Stratified Layers (A5)				Gleyed Matrix ((F2)	Other (Explai	in in Remarks)
	2 cm Muck (A10)	0 ((• 4.4		ed Matrix (F3)	-0)		
	Depleted Below Dark Thick Dark Surface		411)		Dark Surface (F ed Dark Surface	,		
	Sandy Mucky Mineral			-	Depressions (F	. ,		rophytic vegetation and
	5 cm Mucky Peat or F			rtedox	Depressions (1	0)	-	ology must be present, ped or problematic.
	e Layer (if observed)						Offices disturt	bed of problematic.
Туре		•					Hydric Soil Presen	t? Yes⊠ No □
• .	th (inches):						Tryuno com ricocn	. 165 Z No Z
Remarks:							•	
IYDROL	OGY							
Wetland	Hydrology Indicators	s:						
Prim	nary Indicators (minimu	ım of one	is required; che	eck all that appl	<u>y)</u>		Secondary Inc	dicators (minimum of two required)
	Surface Water (A1)		-	□ Water St	 ained Leaves (B	30)	_	Soil Cracks (B6)
	` '	۵۱	-		•))		, ,
	High Water Table (A	۷)	-		auna (B13)	1)		Patterns (B10)
	Saturation (A3)		=		atic Plants (B14			son Water Table (C2)
<u> </u>	Water marks (B1)		-		n Sulfide Odor (0	•		Burrows (C8)
<u> </u>	Sediment Deposits (B2)	-		Rhizospheres o	_	· · · · —	on Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		_	Presence	of Reduced Iro	on (C4)	Stunted of	or Stressed Plants (D1)
	Algal Mat or Crust (E	34)	_	Recent Ir	on Reduction in	Tilled Soils	s (C6)	phic Position (D2)
	Iron Deposits (B5)		_	Thin Muc	k Surface (C7)		_ ⊠ FAC-Nei	utral Test (D5)
	Inundation Visible or	Aerial Im	agery (B7)	Gauge or	Well Data (D9))		
	Sparsely Vegetated	Concave S	Surface (B8)	Other (E)	cplain in Remark	ks)		
Field Ob	servations:		,			,		
Surface V	Vater Present?	∕es □	No 🛭 Dep	th (inches):				
Water Ta		_		th (inches): <u>20</u>	<u></u>			
				th (inches): <u>10</u>				
	capillary fringe)	C3 🖂	ио 🗆 вер	ui (iiiciics). <u>10</u>			Wetland Hydrology Prese	ent? Yes⊠ No □
,	,						and the Land Annual (Fig. 1919)	4.4) MANA(I Mana (Fashibit O) Osila
	Recorded Data (strea nibit 3), Aerial photos (l		-	•			/allable: Topo Maps (Exnibi	t 1), WWI Map (Exhibit 2), Soils
							ent precipitation showed	signatures of saturation(C9).
	omorphic Position (E			, , -			on prodpitation showed	orgination of saturation(OB).
			4000 1101 (and byoton			

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 8 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): toeslope Local relief (concave, convex, none): concave Slope (%): 0-2% Datum: Lat: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. Sample in this location was chosen as elevation was slightly higher than wetland sample site 7 and the landform was changing from depressional to a toeslope. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** <u>25</u> \boxtimes **OBL** 2. Amaranthus tuberculatus 20 \boxtimes **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 5 П OBL 4. Rorripa palustris 3 - Prevalence Index is ≤3.0¹ П 3 **FACW** 5. Persicaria lapathifolia ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has been recently herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

83

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

file Des	scription: (Describe to	o the dep	oth needed to c	document the inc	dicator or co	nfirm the a	bsence of indicators.)	
epth	Matrix			Redox Fea			_	
iches)	Color (moist)	%	Color (moi	oist) %	Type ¹	Loc ²	Texture	Remarks
2	10YR 2/1	100					Clay loam	
24	5Y 5/2	65	10YR 4/6	35	С	PL M	Sandy loam	
								-
						•		
	Concentration, D=Depl	etion, RM	1=Reduced Mat	trix, MS=Masked S	Sand Grains		² Location: PL=Pore	
	il Indicators:			□ Condu Cl	avad Matrix (C	24)		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)			Sandy Gle	eyed Matrix (S	54)	☐ Coast Prairie☐ Dark Surface	
	Black Histic (A3)				Matrix (S6)			ese Masses (F12)
	Hydrogen Sulfide (A4)				ucky Mineral ((F1)		Dark Surface (TF12)
	Stratified Layers (A5)			Loamy Gl	eyed Matrix (I	F2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)				Matrix (F3)		<u></u>	
	Depleted Below Dark		(A11)		rk Surface (F			
	Thick Dark Surface (A Sandy Mucky Mineral				Dark Surface	. ,	-	ophytic vegetation and
		` '		Redox De	pressions (F8	o)	•	logy must be present,
	5 cm Mucky Peat or Poet August 5 cm Mucky Peat or Poet 5 cm Mucky Peat 5 cm Mucky Peat 5 cm Mucky Peat 5 cm Mucky Peat 5 cm Poet 5 cm Mucky Peat 5 cm Mucky Peat 5 cm Mucky Peat 6 cm Poet 5 cm Mucky Peat 6 cm Poet 5 cm Mucky Peat 7 cm Poet 5 cm Mucky Peat 7 cm Poet 5 cm Po	, ,					Uniess disturb	ed or problematic.
Туре							Hydric Soil Present	? Yes⊠ No □
	h (inches):						Hydric 30ii Freseiii	· les 🖂 No 🖂
Deptl narks:								
narks:	DGY						·	
PROLO	OGY Hydrology Indicators			ok all that apply)			Cocondany Ind	icatora (minimum of tura na quinad
PROLO	OGY Hydrology Indicators ary Indicators (minimul		is required; che				_	icators (minimum of two required
PROLO	OGY Hydrology Indicators ary Indicators (minimul Surface Water (A1)	m of one i	is required; che	☐ Water-Stain	ed Leaves (B	9)	Surface S	Soil Cracks (B6)
PROLCE Prim.	OGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2	m of one i	- -	☐ Water-Stain ☐ Aquatic Fau	na (B13)	ŕ	Surface S	Soil Cracks (B6) Patterns (B10)
PROLO	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one i	- -	Water-Stain Aquatic Fau True Aquatic	na (B13) c Plants (B14)	Surface S Drainage Dry-Seas	oil Cracks (B6) Patterns (B10) on Water Table (C2)
PROLCE Prim.	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one i	- -	Water-Stain Aquatic Fau True Aquatic Hydrogen S	na (B13) c Plants (B14 ulfide Odor (C) (21)	Surface S Drainage Dry-Seas Crayfish	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
Prim	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one i	- -	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C nizospheres o) C1) n Living Ro	Surface S Drainage Dry-Seas Crayfish ots (C3) Surface S Dry-Seas Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
Prim.	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one i	- -	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14 ulfide Odor (C) C1) n Living Ro	Surface S Drainage Dry-Seas Crayfish ots (C3) Surface S Dry-Seas Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2)
Prim	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B	m of one i	- - - - -	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C nizospheres o) C1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted c	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9)
Prim.	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one i	- - - - -	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14 ulfide Odor (C nizospheres of Reduced Iron Reduction in) C1) n Living Ro n (C4)	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	coil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) cn Visible on Aerial Imagery (C9) r Stressed Plants (D1)
Prim	DGY Hydrology Indicators ary Indicators (minimulators (Minimulators) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B4)	m of one i	- - - - - -	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B14 ulfide Odor (C nizospheres of Reduced Iron Reduction in) C1) n Living Ro n (C4)	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	Patterns (B6) Patterns (B10) On Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C5) or Stressed Plants (D1) hic Position (D2)
Prim	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	m of one i		Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14 ulfide Odor (C nizospheres or Reduced Iron Reduction in Surface (C7)) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	Patterns (B6) Patterns (B10) On Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C5) or Stressed Plants (D1) hic Position (D2)
Prim. Prim. O	Pydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	m of one i		Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14 ulfide Odor (C nizospheres of FReduced Iron Reduction in Gurface (C7) (ell Data (D9)) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	coil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9 or Stressed Plants (D1) hic Position (D2)
Prim	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations:	m of one i 2) 32) 4) Aerial Ima Concave S	- - - - agery (B7) _ Surface (B8)	Water-Stain Aquatic Fau Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14 ulfide Odor (C nizospheres of FReduced Iron Reduction in Gurface (C7) (ell Data (D9)) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	coil Cracks (B6) Patterns (B10) con Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2)
Prim	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations:	m of one i 2) 32) 4) Aerial Ima Concave S	- - - - agery (B7) _ Surface (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B14 ulfide Odor (C nizospheres of FReduced Iron Reduction in Gurface (C7) (ell Data (D9)) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	coil Cracks (B6) Patterns (B10) Con Water Table (C2) Burrows (C8) Con Visible on Aerial Imagery (CS) or Stressed Plants (D1) hic Position (D2)
Prim. Prim. OROLO etland I OROlo et	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Viele Present?	m of one i 2) 32) Aerial Ima Concave S es	agery (B7) Surface (B8) No ⊠ Dept	Water-Stain Aquatic Fau Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14 ulfide Odor (C nizospheres of FReduced Iron Reduction in Gurface (C7) (ell Data (D9)) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Stunted co (C6) Geomorp	Patterns (B10) Patterns (B10) On Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C5 or Stressed Plants (D1) hic Position (D2) tral Test (D5)
Primal Service Water Take atturation icludes describe less than the content of th	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corrections: Vater Present? Present? The Present (Stream) The Present	m of one in the set of	agery (B7) Surface (B8) No Dept No Dept No Dept No Dept	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain th (inches): th (inches): 19 th (inches): 6	na (B13) c Plants (B14 ulfide Odor (C nizospheres or Reduced Iron Reduction in Surface (C7) fell Data (D9) ain in Remark) C1) n Living Ro n (C4) Tilled Soils s)	Surface S Drainage Dry-Sease Crayfish Otts (C3) Stunted of Geomorp FAC-Neur	coil Cracks (B6) Patterns (B10) Con Water Table (C2) Burrows (C8) Con Visible on Aerial Imagery (CS) or Stressed Plants (D1) hic Position (D2) tral Test (D5)
Primarks:	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Present.	m of one in set of set	agery (B7) Surface (B8) No Dept No Dept No Dept no Dept monitoring well, and Image revie		na (B13) c Plants (B14 ulfide Odor (C nizospheres or F Reduced Iron Reduction in Surface (C7) fell Data (D9) ain in Remark) C1) n Living Ro n (C4) Tilled Soils s) tions), if ava	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturation Stunted of Geomorp FAC-Neur Wetland Hydrology Prese	patterns (B10) pon Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9 r Stressed Plants (D1) hic Position (D2) tral Test (D5) nt? Yes \(\sum \) No \(\sum \)
Prim. Pr	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Present.	m of one in section of one in	agery (B7) Surface (B8) No Dept No Dept No Dept and Image revie	Water-Stain Aquatic Fau Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain th (inches): 19 th (inches): 6 , aerial photos, presew Area B (Exhibited) 8 (75%) images	na (B13) c Plants (B14 ulfide Odor (C nizospheres of Reduced Iron Reduction in Surface (C7) fell Data (D9) ain in Remark evious inspect its 12, 13, and) C1) n Living Ro n (C4) Tilled Soils s) tions), if available. I antecede	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturation Stunted of Geomorp FAC-Neur Wetland Hydrology Prese	patterns (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Car Stressed Plants (D1) hic Position (D2) tral Test (D5) nt? Yes \(\) No \(\)

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 9 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): <u>0-2%</u> Datum: Lat: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 50% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FACU** Prevalence Index = B/A = 1. Thlaspi arvense **Hydrophytic Vegetation Indicators:** <u>15</u> \boxtimes **FAC** 2. Panicum capillare 5 FAC 3. Plantago rugelii ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% 5 П **FACW** 4. Veronica peregrina ☐ 3 - Prevalence Index is ≤3.01 2 **FACU** 5. Soldago altissima ☐ 4 - Morphological Adaptations¹ (Provide supporting **FACW** 1 data in Remarks or on a separate sheet) 6. Cornus alba ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 1 **FACU** 7. Morus alba FAC 1 8. Rhamnus cathartica П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Agricultural field.

60

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🛛

Yes 🗌

OIL								g Point: 9
Profile De	scription: (Describe	to the dep	oth needed to docum	nent the indi	icator or cor	nfirm the a	absence of indicators.)	
Donth	Matrix			Redox Feat	tures			
Depth (inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks
			Color (Inoist)			LUC		Remarks
0-10	10YR 2/1	100					Silty clay loam	
10-18	2.5Y 4/1	75	7.5YR 3/4	25	C	PL M	Clay loam	
18-24	10Y 4/1	60	10YR 5/8	40	C	PL M	Clay loam	
							-	
	-		-				-	-
			-					
¹Tvpe: C=	Concentration, D=Dep	oletion. RN	/I=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	Lining, M=Matrix
	il Indicators:	,						ematic Hydric Soils³:
	Histosol (A1)			Sandy Gle	yed Matrix (S	64)	☐ Coast Prairie I	
	Histic Epipedon (A2)			Sandy Red	dox (S5)		☐ Dark Surface (
	Black Histic (A3)			Stripped M			☐ Iron-Mangane	
	Hydrogen Sulfide (A4)		_	cky Mineral (Dark Surface (TF12)
	Stratified Layers (A5)			_	eyed Matrix (F	-2)	Other (Explain	in Remarks)
	2 cm Muck (A10)				Matrix (F3)			
	Depleted Below Dark		(A11) <u></u>		k Surface (F6			
	Thick Dark Surface (A				Dark Surface		-	phytic vegetation and
	Sandy Mucky Mineral	, ,	<u> </u>	_ Redox Dep	oressions (F8)	-	ogy must be present,
	5 cm Mucky Peat or F						Unless disturbe	ed or problematic.
	e Layer (if observed)	:						
Type							Hydric Soil Present	? Yes⊠ No □
	th (inches):							
Remarks:								
IVDDOL (201							
IYDROL								
	Hydrology Indicators							
Prim	nary Indicators (minimu	ım of one	is required; check all	that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)		П	Water-Staine	ed Leaves (B	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A	2)		Aquatic Faur	•	- /		Patterns (B10)
	-	-)						
	Saturation (A3)				Plants (B14)			on Water Table (C2)
│ —	Water marks (B1)				ılfide Odor (C	•		Burrows (C8)
	Sediment Deposits (B2)			zospheres or	_	oots (C3)	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iror	n (C4)	Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	34)		Recent Iron F	Reduction in	Tilled Soils	Geomorph (C6)	nic Position (D2)
	Iron Deposits (B5)			Thin Muck Si	urface (C7)		FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated			-	in in Remarks	e)		
Field Obs	servations:	Concave	dilace (DO)	Otrier (Explai	III III IXemark	s) 		
		′es □	No ⊠ Depth (inc	hes):				
				hes):				
		′es ⊠	No Depth (inc	hes): <u>18</u>			Wetland Hydrology Preser	nt? Yes ☐ No ⊠
(includes	capillary fringe)						, , 	
Describe	Recorded Data (stream	m gauge,	monitoring well, aeria	l photos, pre	vious inspect	ions), if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial phot		-			<u> </u>		· · ·
Remarks:	Only one seconda	ry indicat	or of wetland hydro	ology obser	ved.			

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 10 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): 0-2% Datum: Lat: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>0</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: <u>1</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 0 0% (A/B) Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FACU** Prevalence Index = B/A = 1. Thlasp arvense **FACW Hydrophytic Vegetation Indicators:** <u>5</u> 2. Veronica peregrina 4 NI (UPL) 3. Glycine max (planted) ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% 3 П **FACU** 4. Solidago altissima 3 - Prevalence Index is ≤3.0¹ 2 **FACU** 5. Erigeron canadensis ☐ 4 - Morphological Adaptations¹ (Provide supporting 1 **FACU** data in Remarks or on a separate sheet) 6. Oxalis stricta ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 1 FAC 7. Rhamnus cathartica 8. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Agricultural field.

<u>46</u>

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🛛

Yes 🗌

OIL					_		•	g Point: <u>10</u>
Profile De	escription: (Describe t	to the dep	oth needed to do	cument the ind	icator or con	nfirm the a	absence of indicators.)	
Depth	Matrix		· -	Redox Feat	tures		<u> </u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-13	10YR 2/1	100					Clay loam	
13-20	2.5Y 3/1	95	10YR 3/3	<u> </u>	C	PL M	Clay loam	
20-26	10Y 5/1	50	10YR 5/8	50		PL M	Clay loam	_
							- Ciaj isaiii	-
	- 						-	
		-	· 					•
¹Type: C=	Concentration, D=Dep	letion RM	1=Reduced Matrix	MS=Masked S	and Grains		² Location: PL=Pore	Lining M=Matrix
_ , .	il Indicators:	iction, rav	T TOUGOCG WIGHTA	, ivio iviasitoa o	and Ordino			ematic Hydric Soils³:
-	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	54)	☐ Coast Prairie	
	Histic Epipedon (A2)		_	☐ Sandy Red	dox (S5)		☐ Dark Surface	•
	_ ` ′		_	Stripped M	, ,		Iron-Mangane	
	Hydrogen Sulfide (A4))	-		cky Mineral (I			Dark Surface (TF12)
	Stratified Layers (A5)		_		eyed Matrix (F	-2)	Other (Explain	in Remarks)
╽╶╫	2 cm Muck (A10) Depleted Below Dark	Surface (/	\11\	Depleted N	//aเกิx (คือ) ·k Surface (F6	3)		
	Thick Dark Surface (A	•			Dark Surface	,	31 11 1 611 1	
	Sandy Mucky Mineral				oressions (F8			ophytic vegetation and logy must be present,
	5 cm Mucky Peat or P		_	<u> </u>	,	•		ed or problematic.
	e Layer (if observed):	, ,						
Туре							Hydric Soil Present	? Yes ☐ No ⊠
Dept	th (inches):							
Remarks:	No hydric soil indica	tors obse	erved.					
IYDROL								
Wetland	Hydrology Indicators	:						
Prim	nary Indicators (minimu	m of one	is required; check	all that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)] Water-Staine	ed Leaves (B9	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A2	2)		<u></u>] Aquatic Faur	•	,		Patterns (B10)
	Saturation (A3)	-/		_	Plants (B14)			on Water Table (C2)
	Water marks (B1)			Hydrogen Su				Burrows (C8)
	. ,	20)	<u>-</u>	_	•	•	 ·	, ,
	Sediment Deposits (E	52)	<u></u>	_	•	-	` ' —	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of		` '		r Stressed Plants (D1)
	Algal Mat or Crust (B	4)		_		Tilled Soils	· · · — ·	nic Position (D2)
	Iron Deposits (B5)		_ <u>_</u>	Thin Muck S	urface (C7)		FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated (Concave S	Surface (B8)	Other (Expla	in in Remarks	s)		
Field Ob	servations:							
Surface V	Water Present? Y	es 🗌	No 🛛 Depth (inches):				
Water Ta	ble Present? Y	es 🗌	No 🛛 Depth (inches):				
Saturatio	n Present? Y	′es ⊠	No Depth (inches): <u>19</u>			Watland Undralamy Drago	mt2 Voo□ No ⊠
(includes	capillary fringe)						Wetland Hydrology Prese	nt? Yes ☐ No ☒
Describe	Recorded Data (strear	n gauge.	monitoring well. ae	erial photos, pre	vious inspect	ions). if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), Aerial photos (E		•		•	,	anasis. Topo mapo (=/misic	(2/4.1.2.1.2), 00.10
	: No wetland hydrolo				· ·	-		
	,	J,						

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 11 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **FACW Hydrophytic Vegetation Indicators:** <u>15</u> \boxtimes 2. Veronica peregrina 12 **FACW** 3. Persicaria maculosa ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>10</u> П **FACW** 4. Juncus dudleyi 3 - Prevalence Index is ≤3.0¹ П <u>10</u> <u>OBL</u> 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FAC** data in Remarks or on a separate sheet) 6. Plantago rugelii ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 3 OBL 7. Typha angustifolia П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

85

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

Depth Matrix Redox Features Federal Federal Features Federal Fe	Tile Des	scription: (Describe to	o tne dep	ptn needed to do	cument the Indi	icator or coi	ntirm the a	bsence of indicators.)	
Secondary Indicators Indi	Depth	Matrix						_	
1.5 2.5 Y 2.5 96 10 YR 3/3 4	nches)	Color (moist)	%	Color (moist)) %	Type	Loc ²	Texture	Remarks
Lie 2.5Y 3/1 70 10YR 3/4 30 C PL M Clay loam	}	10YR 2/1	100	- ·				Clay loam	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	4	2.5Y 2.5/1	96	10YR 3/3	4	C	PL M	Clay loam	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	-16	2.5Y 3/1	70	10YR 3/4	30	С	PL M	Clay loam	
Indicator for Problematic Hydric Soils*: Histic Epipadon (A2)	-24	10Y 5/2	65	10YR 5/8	35	С	PL M	Clay loam	
Indicator for Problematic Hydric Soils*: Histic Epipadon (A2)									
Indicator for Problematic Hydric Soils*: Histic Epipadon (A2)									
Indicator for Problematic Hydric Soils*: Histic Epipadon (A2)								-	-
Histose (A1)			letion, RN	M=Reduced Matrix	, MS=Masked S	and Grains			
Histo Epipedon (A2)							24)		
Black Histic (A3)				-			54)		
Hydrogen Sulfide (A4)				_		, ,			•
)	_		, ,	'F1)		
□ 2 cm Muck (A10) □ Depleted Matrix (F3) □ Depleted Below Dark Surface (A12) □ Depleted Dark Surface (F6) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Sorn Mucky Peat or Peat (S3) □ Depleted Dark Surface (F7) □ Sorn Mucky Peat or Peat (S3) □ Depleted Dark Surface (F7) □ Sorn Mucky Peat or Peat (S3) □ Depleted Dark Surface (F7) □ Sorn Mucky Peat or Peat (S3) □ Depleted Dark Surface (F8) □ Depleted Dark Surface (F8) □ De				=		•	,		
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sorn Mucky Peat or Peat (S3) Pept (Inches): Type: Depth (Inches): Type: Depth (Inches): Type: Depth (Inches): Depth (Inches)				-		•	,	<u> </u>	,
Sandy Mucky Mineral (S1)		•	•	A11)		•	•		
□ 5 cm Mucky Peat or Peat (S3) Unless disturbed or problematic. Setrictive Layer (if observed):								³ Indicators of Hydro	phytic vegetation and
BROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required): High Water (A1)				_	Redox Dep	oressions (F8	3)	•	
Type:			. ,					Unless disturbe	ed or problematic.
DROLOGY Vettand Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required; check all that apply) Surface Water (A1)									
Primarks: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Primary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Primary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Primary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Primary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Primary Indicators (minimum of two required; check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainag								Hydric Soil Present	? Yes⊠ No ∐
DROLOGY		· /						L	
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Drainage Patterns (B10) Mater Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10) Drainage Patterns (B10) Mater marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) FAC-Neutral Test (D5) Thin Muck Surface (C7) Surface Water Present? Yes No Depth (inches): 21 Saturation Present? Yes No Depth (inches): 32 Saturation Present? Yes No Depth (inches): 34 Saturation Present? Yes No Depth (inches): 35 Saturation Present? Yes No Depth (inches):									
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) True Aquatic Flants (B14) Water marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Aquatic Flants (B7) Recent Iron Reduction in Tilled Soils (C6) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water (A1) Water-Stained Leaves (B9) Aquatic Flants (B13) Drainage Patterns (B10) Surface Soil Cracks (B6) Drainage Patterns (B10) Drainage Patterns (B	NPOL C	nev .							
Surface Water (A1)			:						
High Water Table (A2)	etland F	Hydrology Indicators		is required; check	all that apply)			Secondary Indi	cators (minimum of two required
Saturation (A3)	etland F	Hydrology Indicators ary Indicators (minimul		is required; check					
Water marks (B1)	etland F	Hydrology Indicators ary Indicators (minimul Surface Water (A1)	m of one	is required; check]_ Water-Staine	•	9)	Surface S	oil Cracks (B6)
□ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) ☑ Saturation Visible on Aerial Imagery □ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1) □ Algal Mat or Crust (B4) □ Recent Iron Reduction in Tilled Soils (C6) □ Geomorphic Position (D2) □ Iron Deposits (B5) □ Thin Muck Surface (C7) ☑ FAC-Neutral Test (D5) □ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No □ Depth (inches): □ Water Table Present? Yes □ No □ Depth (inches): 21 Saturation Present? Yes □ No □ Depth (inches): 8 Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soil Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation (C5)	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2	m of one		Water-Staine Aquatic Faun	na (B13)		Surface S Drainage	oil Cracks (B6) Patterns (B10)
□ Drift Deposits (B3) □ Presence of Reduced Iron (C4) □ Stunted or Stressed Plants (D1) □ Algal Mat or Crust (B4) □ Recent Iron Reduction in Tilled Soils (C6) □ Geomorphic Position (D2) □ Iron Deposits (B5) □ Thin Muck Surface (C7) ☑ FAC-Neutral Test (D5) □ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No □ Depth (inches): □ Vater Table Present? Yes □ No □ Depth (inches): 8 Facturation Present? Yes □ No □ Depth (inches): 8 Facturation Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 For Surface Wetland Hydrology Present? Yes	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one		Water-Staine Aquatic Faun True Aquatic	na (B13) Plants (B14))	Surface S Drainage Dry-Seas	oil Cracks (B6) Patterns (B10) on Water Table (C2)
Algal Mat or Crust (B4)	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one		Water-Staine Aquatic Faun True Aquatic	na (B13) Plants (B14))	Surface S Drainage Dry-Sease Crayfish	oil Cracks (B6) Patterns (B10) on Water Table (C2)
□ Iron Deposits (B5) □ Thin Muck Surface (C7) ☑ FAC-Neutral Test (D5) □ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Field Observations: Surface Water Present? Yes □ No □ Depth (inches): □ Vater Table Present? Yes □ No □ Depth (inches): 21 Saturation Present? Yes □ No □ Depth (inches): 8 Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soil Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation (CS)	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one		Water-Staine Aquatic Faun True Aquatic Hydrogen Su	na (B13) Plants (B14) Ilfide Odor (C) (1)	Surface S Drainage Dry-Sease Crayfish	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
□ Inundation Visible on Aerial Imagery (B7) □ Gauge or Well Data (D9) □ Sparsely Vegetated Concave Surface (B8) □ Other (Explain in Remarks) Surface Water Present? Yes □ No □ Depth (inches): □ Water Table Present? Yes □ No □ Depth (inches): 21 Saturation Present? Yes □ No □ Depth (inches): 8 Wetland Hydrology Present? Yes □ No □ Depth (inches): 8 Other Capital Present? Yes □ No □ Depth (inches): 9 Other Capital Present? Yes □ No □ Depth (inches): 9 Other Capital Present? Yes □ No □ Depth (inches): 9 Other Capit	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B	m of one		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	na (B13) Plants (B14) Ilfide Odor (C zospheres or) C1) n Living Ro	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturatio	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C
Sparsely Vegetated Concave Surface (B8)	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one 2) 32)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror) C1) n Living Ro n (C4)	Surface S Drainage Dry-Sease Crayfish tots (C3) Saturation Stunted on	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C
Field Observations: Surface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): 21 Saturation Present? Yes No Depth (inches): 8 Security Secur	Prima Prima D S O O O O O O O O O O O O	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4)	m of one 2) 32)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in) C1) n Living Ro n (C4)	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of (C6) Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C T Stressed Plants (D1) nic Position (D2)
Surface Water Present? Yes No Depth (inches):	Prima Prima D D D D D D D D D D D D D D D D D D D	Ary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	m of one 2) 32) 4)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7)) C1) n Living Ro n (C4)	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of (C6) Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C T Stressed Plants (D1) nic Position (D2)
Vater Table Present? Yes No Depth (inches): 21 Saturation Present? Yes No Depth (inches): 8 Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soil Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation (CS)	Prima Prima D D D D D D D D D D D D D D D D D D D	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	m of one 2) 32) 4) Aerial Im	Lagery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7) ell Data (D9)) c1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of (C6) Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (Ca) Testressed Plants (D1) nic Position (D2)
Saturation Present? Yes No Depth (inches): 8 Wetland Hydrology Present? Yes No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soil Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation (CS)	Prima Prima	And the state of t	m of one 2) 32) 4) Aerial Im	Lagery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7) ell Data (D9)) c1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of (C6) Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C T Stressed Plants (D1) nic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soil Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation (CS)	Prima Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Caservations:	m of one 2) 32) 4) Aerial Im Concave S	Lagery (B7) Surface (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck St Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7) ell Data (D9)) c1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of (C6) Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C T Stressed Plants (D1) nic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soil Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation (CS)	Prima Prima D D D D D D D D D D D D D D D D D D D	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations:	m of one 2) 32) 4) Aerial Im Concave S	aggery (B7) Surface (B8) No Depth (Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7) ell Data (D9)) c1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of (C6) Geomorph	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C T Stressed Plants (D1) nic Position (D2)
Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation(CS).	Prima Prima Prima D D D D D D D D D D D D D D D D D D D	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Vice Present?	m of one 2) 32) 4) Aerial Im Concave S es □	aggery (B7) CSurface (B8) CNo Depth (Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7) ell Data (D9)) C1) In Living Ro In (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish Sturation Stunted of Geomorph FAC-Neur	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (Car Stressed Plants (D1) Inic Position (D2) Itral Test (D5)
Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The image review indicated that 6 out of 8 (75%) images with normal antecedent precipitation showed signatures of saturation(CS).	Prima Prima Prima D D D D D D D D D D D D D D D D D D D	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C servations: Vater Present? The Present? The Present?	m of one 2) 32) 4) Aerial Im Concave S es □	aggery (B7) CSurface (B8) CNo Depth (Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	na (B13) Plants (B14) Ilfide Odor (C zospheres of Reduced Iror Reduction in urface (C7) ell Data (D9)) C1) In Living Ro In (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish Sturation Stunted of Geomorph FAC-Neur	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C Testressed Plants (D1) nic Position (D2) tral Test (D5)
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no occurrentia i oction (DZ) indicator acconstrappis add a didni tilo oscioni.	Prima	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Controls Vater Present? Pare Present? The Present? The Present? The Present (A) The Present (B) The Present (B	m of one 2) 32) 4) Aerial Im Concave S es es n gauge, os (Exhibi	aggery (B7) C Surface (B8) C No Depth (No Depth (No Depth (monitoring well, ac it 4).	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explai	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) Ill Data (D9) In in Remark) C1) n Living Ro n (C4) Tilled Soils s)	Surface S Drainage Dry-Sease Crayfish I Stunted or (C6) FAC-Neur Wetland Hydrology Preser allable: Topo Maps (Exhibit	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (Car Stressed Plants (D1) Inic Position (D2) Itral Test (D5) The Yes No 1 The November 1, WWI Map (Exhibit 2), Soils

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 12 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Long: _ Slope (%): 0-2% Datum: Lat: Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 33% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FACU** 2. Erigeron canadensis 18 \boxtimes **FACU** 3. Thlaspi arvense ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% <u>15</u> П **FACW** 4. Veronica peregrina ☐ 3 - Prevalence Index is ≤3.0¹ 2 NI (UPL) 5. Glycine max (planted 2018) ☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Agricultural field.

85

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🛛

Yes 🗌

OIL								g Point: <u>12</u>
Profile De	scription: (Describe	to the de	oth needed to do	cument the ind	icator or co	ntirm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat			<u> </u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/1	100	<u></u>				Clay loam	
14-17	2.5Y 2.5/1	90	2.5Y 4/1	5	D	PL M	Clay loam	
			10YR 3/6	5	C	PL M		
17-21	5Y 3/1	80	10YR 3/4	20	С	PL M	Clay loam	
21-24	5Y 4/1	75	10YR 3/4	<u></u> <u></u> 25	C	PL M	Clay loam	
, ,	Concentration, D=Dep	letion, RN	/I=Reduced Matrix	MS=Masked S	and Grains		² Location: PL=Pore	
-	il Indicators:					24)	Indicators for Proble	-
	Histosol (A1) Histic Epipedon (A2)		_	Sandy Gle	yed Matrix (S	54)	☐ Coast Prairie F☐ Dark Surface (
	Black Histic (A3)		_	Stripped M	, ,		☐ Iron-Manganes	•
	Hydrogen Sulfide (A4)	-		cky Mineral ((F1)		Dark Surface (TF12)
	Stratified Layers (A5)	,	-		yed Matrix (I		Other (Explain	
	2 cm Muck (A10)		_	Depleted N	/latrix (F3)			
	Depleted Below Dark	•	A11)	<u></u>	k Surface (F	,		
	Thick Dark Surface (A				Oark Surface		³ Indicators of Hydro	phytic vegetation and
	Sandy Mucky Mineral		_	Redox Dep	oressions (F8	3)		ogy must be present,
	5 cm Mucky Peat or F						Unless disturbe	ed or problematic.
Type	e Layer (if observed)	•					Uhadeia Cail Brasanti	Var 🗆 Na 🖂
	th (inches):						Hydric Soil Present?	Yes ☐ No ☒
IYDROL	OGY							
Wetland	Hydrology Indicators	S :						
Prim	nary Indicators (minimu	ım of one	is required; check	all that apply)			Secondary India	cators (minimum of two required)
	Surface Water (A1)			Water-Staine	ed Leaves (B	9)	☐ Surface So	oil Cracks (B6)
	High Water Table (A	2)	<u></u>	Aquatic Faur	•	-,		Patterns (B10)
	Saturation (A3)	_,		_	, ,)		n Water Table (C2)
	Water marks (B1)		<u></u> _	Hydrogen Su				urrows (C8)
	Sediment Deposits (I	R2)		_	•	•	 '	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	<i>52)</i>	<u>-</u>	Presence of	•	•	` ' 	Stressed Plants (D1)
	, , ,	(4)		-		` '		, ,
	Algal Mat or Crust (B	(4)		_		Tilled Solls	` ' 	ic Position (D2)
	Iron Deposits (B5)	A 1 - 1 - 1		Thin Muck S			FAC-Neuti	ral Test (D5)
<u> </u>	Inundation Visible on		<u> </u>	_ ~	` ,	`		
Field Ob	Sparsely Vegetated (servations:	Concave S	Surface (B8)	Other (Explai	in in Remark	(S)		
		/aa 🖂	Na 🔽 Donth /	inahaa).				
			. ,	inches):				
				inches):				
	n Present? Y capillary fringe)	′es ⊠	No	inches): <u>20</u>			Wetland Hydrology Preser	nt? Yes ☐ No ⊠
	Recorded Data (streamibit 3), and Aerial phot		•	erial photos, pre	vious inspec	tions), if av	ailable: Topo Maps (Exhibit	I), WWI Map (Exhibit 2), Soils
Remarks	No wetland hydrol	ogy indic	ators observed.					

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: <u>08/28/2019</u> Applicant/Owner: __ State: WI Sampling Point: 13 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight slope Local relief (concave, convex, none): linear Slope (%): <u>0-2%</u> Datum: Long: NWI classification: T3/E2K Soil Map Unit Name: Ashkum silty clay loam (AsA) Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛚 No 🗌

Hydrophytic Vegetation Present? Hydric Soils Present? Wes Wetland Hydrology Present? Yes	□No □No ⊠ No		Is the Samp within a We		☐ Yes	⊠No
Remarks: 90-day antecedent precipitation						
GETATION – Use scientific names of plants.						
Tree Stratum (Plot size: 30' radius)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksł	neet:
. <u>Acer negundo</u>		<u>40</u>	\boxtimes	<u>FAC</u>	Number of Dominant Specie	s
. <u>Rhamnus cathartica</u>		<u>15</u>	\boxtimes	<u>FAC</u>	That are OBL, FACW, or FA	C: <u>6</u> (A)
3					Total Number of Dominant	
ı			П		Species Across All Strata:	<u>8</u> (B)
5					Percent of Dominant Species	S
		<u>55</u>	= Total Co	ver	That Are OBL, FACW, or FA	C: <u>75%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 30' radius)					Prevalence Index workshe	et:
. Rhamnus cathartica		<u>40</u>	\boxtimes	<u>FAC</u>	Total % Cover of:	Multiply by:
2					OBL species	x 1 =
3					FACW species	x 2 =
. <u></u>					FAC species	x 3 =
 5			П		FACU species	x 4 =
		40	= Total Co	ver	UPL species	x 5 =
Herb Stratum (Plot size: <u>5' radius</u>)					Column Totals:	(A)
. Circaea canadensis		<u>25</u>	\boxtimes	<u>FACU</u>	Prevalence Index	
2. Alliaria petiolata		<u>20</u>	\boxtimes	<u>FAC</u>	Hydrophytic Vegetation Inc	dicators:
B. <u>Rhamnus cathartica</u>		<u>12</u>	\boxtimes	FAC	☐ 1 - Rapid Test for Hydro	ohytic Vegetation
I. <u>Geum canadense</u>		<u>10</u>	П	<u>FAC</u>	2 - Dominance Test is >	-50%
5. <u>Hackelia virginiana</u>		<u>10</u>	П	<u>FACU</u>	☐ 3 - Prevalence Index is ≤	
6. Arctium minus		<u>8</u>	П	FACU	4 - Morphological Adapta data in Remarks or or	
7. Parthenocissus quinquefolia		<u>5</u>		<u>FACU</u>	5 - Problematic Hydroph	
3. Rosa multiflora		<u>5</u>		FACU		
9. Acer negundo		<u>3</u>		FAC	¹ Indicators of hydric soil and	l wetland hydrology mu
		<u>3</u>		NI (UPL)	Be present, unless disturbed	or problematic.
10. <u>Rubus occidentalis</u>		<u>-</u> 104*	= Total Co			
Woody Vine Stratum (Plot size: 30' radius)		104_	10101 00			
		<u>10</u>	\boxtimes	FACW	Hydrophytic Vegetation	
1. <u>Vitis riparia</u>		<u>10</u> <u>3</u>		FACU	Present? Yes ⊠	No 🗆
2. Parthenocissus quinquefolia		<u>3</u> 13	= Total Co			
Remarks: (Include photo numbers here or on a		<u></u>			do: Combuous pigro (20/.) E	AC Hardwaada

WETLAND DETERMINATION DATA FORM – Midwest Region City/County: City of Muskego/Waukesha County Project/Site: Lynn Kurer and Wayne Bushberger Properties Sampling Date: 08/28/2019 Applicant/Owner: Sampling Point: 14 State: WI Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0-2% Long: Datum: Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: T3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal.

ree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. <u>Salix amygdaloides</u>	<u>60</u>	\boxtimes	<u>FACW</u>	Number of Dominant Species
. <u>Rhamnus cathartica</u>	<u>35</u>	\boxtimes	FAC	That are OBL, FACW, or FAC: 5 (A)
. <u>Acer negundo</u>	<u>15</u>		FAC	Total Number of Dominant
·				Species Across All Strata: <u>5</u> (B)
	<u>110</u>	☐ = Total Cov	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
apling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:
. <u>Rhamnus cathartica</u>	<u>5</u>	\boxtimes	<u>FAC</u>	Total % Cover of: Multiply by:
				OBL species x 1 =
				FACW species x 2 =
·				FAC species x 3 =
·				FACU species x 4 =
	<u>5</u>	= Total Cov	ver	UPL species x 5 =
erb Stratum (Plot size: <u>5' radius</u>)				Column Totals: (A) (E
. Rhamnus cathartica	<u>6</u>	\boxtimes	<u>FAC</u>	Prevalence Index = B/A =
. <u>Vitis riparia</u>	<u>2</u>	\boxtimes	FACW	Hydrophytic Vegetation Indicators:
·				☐ 1 - Rapid Test for Hydrophytic Vegetation
·				□ 2 - Dominance Test is >50% □ 2 - Dominance Test is >50% □ 3 - Dominance Test is
·				☐ 3 - Prevalence Index is ≤3.0¹☐ 4 - Morphological Adaptations¹ (Provide supportin
·		П		data in Remarks or on a separate sheet)
				5 - Problematic Hydrophytic Vegetation¹ (Explain)
·				¹ Indicators of hydric soil and wetland hydrology must
0		П		Be present, unless disturbed or problematic.
·· <u></u>	<u>8</u>	= Total Cov	ver	
Voody Vine Stratum (Plot size: 30' radius)				Hydrophytic
. <u></u>				Vegetation
· · 				Present? Yes ⊠ No □
	<u>0</u>	= Total Cov	ver	

OIL							<u>.</u>	g Point: <u>14</u>
Profile De	scription: (Describe t	o the depth	needed to docur	nent the ind	icator or con	firm the	absence of indicators.)	
Depth	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks
0-8	10YR 2/1	100	- ()	_			Silt loam	-
8-22	N 2.5/	100					Muck	
22-32	• ——							
22-32	5YR 2/1	100					Peat	
				<u> </u>				
	<u> </u>							
	·							
1= 0	0 ' " D D			0.14 10			21 (1 D) D	
	Concentration, D=Dep	letion, RM=I	Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	ematic Hydric Soils ³ :
-	Histosol (A1)			Sandy Gle	yed Matrix (S	4)	Coast Prairie	
	Histic Epipedon (A2)		-	Sandy Red		• /	Dark Surface (
	Black Histic (A3)			Stripped M			Iron-Mangane	
	Hydrogen Sulfide (A4)			Loamy Mu	cky Mineral (F	1)	Very Shallow I	Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	2)	Other (Explain	in Remarks)
	2 cm Muck (A10)			Depleted N	` '			
	Depleted Below Dark		1)		k Surface (F6			
	Thick Dark Surface (A				Dark Surface (-	phytic vegetation and
	Sandy Mucky Mineral		<u> </u>	_ Redox Dep	oressions (F8)	1		ogy must be present,
	5 cm Mucky Peat or Pee Layer (if observed):						Unless disturbe	ed or problematic.
Type							Hudria Cail Brasanti	yoo ⊠ No □
	 h (inches):						Hydric Soil Present	? Yes⊠ No □
Remarks:								
<u> </u>								
HYDROLO	OGY							
Wetland	Hydrology Indicators	:						
Prim	ary Indicators (minimu	m of one is	required; check all	that apply)			Secondary Indi	cators (minimum of two required)
			•		- 11 (D	٥١	<u>_</u>	
블	Surface Water (A1)				ed Leaves (B	9)		oil Cracks (B6)
	High Water Table (A2	2)		Aquatic Faur	-			Patterns (B10)
	Saturation (A3)			True Aquatic	Plants (B14)			on Water Table (C2)
	Water marks (B1)			Hydrogen Su	ılfide Odor (C	1)	Crayfish B	surrows (C8)
	Sediment Deposits (E	32)		Oxidized Rhi	zospheres on	Living Ro	oots (C3) 🔲 Saturation	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	(C4)	☐ Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B4	4)		Recent Iron I	Reduction in T	illed Soil	s (C6) Geomorp	hic Position (D2)
	Iron Deposits (B5)			Thin Muck S	urface (C7)		☐ FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Imag		Gauge or We			<u> </u>	` ,
	Sparsely Vegetated C	•	· · · · —	•	in in Remarks)		
Field Obs	servations:	Jonicave Gui	lace (Bo)	Otrici (Expla	III III Komans	,		
		es □ No	o ⊠ Depth (inc	hes):				
			Depth (inc					
				•				
	n Present? Yocapillary fringe)	es 🛛 No	Depth (inc	nes): <u>5</u>			Wetland Hydrology Preser	nt? Yes⊠ No 🏻
,								
	•		-	I photos, pre	vious inspecti	ons), if av	vailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	ibit 3), and Aerial photo	os (Exhibit 4).					
Remarks:								
1								

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Sampling Point: 15 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): flat Slope (%): 1-3% Long: Datum: Soil Map Unit Name: Matherton silt loam (MmA) NWI classification: Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No ⊠No within a Wetland? ☐ Yes Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. Determined that this sample site was effectively drained due to a large tile failure (water drains into a collapsed area via suface flow vs. underground drain tile) just north of the sample site. In addition, at nearby wetland sample sites 16 and 17, a water table was observed within 24 inches and met the dry-season water table (C2) indicator, while a water table was not observed at this sample site. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator

Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksh	neet:
1				Number of Dominant Species	
2				That are OBL, FACW, or FA	C: <u>2</u> (A)
3				Total Number of Dominant	
4				Species Across All Strata:	<u>2</u> (B)
5				Percent of Dominant Species	S
	<u>0</u>	= Total Cov	ver	That Are OBL, FACW, or FA	C: <u>100%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index workshee	et:
1				Total % Cover of:	Multiply by:
2				OBL species	x 1 =
3				FACW species	x 2 =
4				FAC species	x 3 =
5				FACU species	x 4 =
	<u>0</u>	= Total Cov	ver	UPL species	x 5 =
Herb Stratum (Plot size: 5' radius)				Column Totals:	(A)(B)
1. Echinochloa crus-galli	<u>35</u>	\boxtimes	FACW	Prevalence Index	c = B/A =
2. <u>Veronica peregrina</u>	<u>15</u>	\boxtimes	FACW	Hydrophytic Vegetation Inc	dicators:
3. Erigeron canadensis	<u>8</u>		<u>FACU</u>	☐ 1 - Rapid Test for Hydrop	ohytic Vegetation
4. Thlaspi arvense	<u>5</u>		<u>FACU</u>	□ 2 - Dominance Test is >	-50%
5. <u>Ambrosia artemisiifolia</u>	<u>3</u>		<u>FACU</u>	☐ 3 - Prevalence Index is ≤☐ 4 - Morphological Adapta	
6. Glycine max (planted 2018)	<u>2</u>		NI (UPL)	data in Remarks or or	
7				5 - Problematic Hydrophy	ytic Vegetation¹ (Explain)
8					
9				¹ Indicators of hydric soil and	
10				Be present, unless disturbed	or problematic.
· —	<u>68</u>	= Total Cov	ver		
Woody Vine Stratum (Plot size: 30' radius)				Hydrophytic	
1				Vegetation	
2				Present? Yes ⊠	No 🗌
	<u> </u>	= Total Cov	ver		
Remarks: (Include photo numbers here or on a separate	sheet.) Vegetation	has recently	y been herb	icided but was still able to l	be identified.
Agricultural field.					

OIL									g Point: 15
Profile De	scription: (Describe to	o the dep	oth needed to	docun	nent the indi	cator or con	firm the a	absence of indicators.)	
Depth	Matrix				Redox Featu	ıres			
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²	 Texture	Remarks
0-6	10YR 2/1	100		<u> </u>	-			Clay loam	
6-15	5Y 2.5/1	95	10YR 3/4		5		PL M	Clay loam	-
15-24	2.5Y 4/2	85	5Y 5/2		10		M	Sandy clay loam	
13-24	2.51 4/2		2.5Y 4/4		5	C	PL M	Salidy Clay Ioaili	
			2.51 4/4				FL IVI	- -	•
	-		· 						
		-	· 						
¹Typo: C-	Concentration, D=Depl	lotion PM	1-Poducod M	atriv M	S-Mackad Sa	and Grains		² Location: PL=Pore	Lining M-Matrix
, ·	il Indicators:	ielion, ixiv	i-Reduced W	auix, ivi	3-Maskeu 3a	and Grains			ematic Hydric Soils ³ :
	Histosol (A1)				Sandy Gley	ed Matrix (S	4)	Coast Prairie	
	Histic Epipedon (A2)				Sandy Red		,	 ☐ Dark Surface	
	Black Histic (A3)				Stripped Ma	atrix (S6)		☐ Iron-Mangane	se Masses (F12)
	Hydrogen Sulfide (A4)					ky Mineral (l	-		Dark Surface (TF12)
	Stratified Layers (A5)					yed Matrix (F	2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)				Depleted M				
	Depleted Below Dark S	•	A11)		<u> </u>	k Surface (F	•		
	Thick Dark Surface (A Sandy Mucky Mineral					ark Surface ressions (F8		•	ophytic vegetation and
	5 cm Mucky Peat or Pe	` '			Redox Depi	163310113 (1 0	,	-	logy must be present,
	e Layer (if observed):							Unless disturbe	ed or problematic.
Туре								Hydric Soil Present	? Yes⊠ No □
	h (inches):							Tryunc 3011 Fresent	: les 🖂 No 🗀
Remarks:	· / <u>—</u>								
<u> </u>									
HYDROL	OGY								
Wetland	Hydrology Indicators:	:							
Prim	ary Indicators (minimu	m of one	is required; cl	neck all	that apply)			Secondary Indi	cators (minimum of two required)
	•		•			-l l (DC	2)		· · · · · ·
	Surface Water (A1)				Water-Stained	•	9)		oil Cracks (B6)
<u> </u>	High Water Table (A2	2)			Aquatic Fauna				Patterns (B10)
	Saturation (A3)				True Aquatic l	Plants (B14)			on Water Table (C2)
	Water marks (B1)				Hydrogen Sul	fide Odor (C	1)	Crayfish B	Burrows (C8)
	Sediment Deposits (B	32)			Oxidized Rhiz	ospheres or	Living Ro	oots (C3)	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of F	Reduced Iron	(C4)	Stunted or	r Stressed Plants (D1)
	Algal Mat or Crust (B4	4)			Recent Iron R	Reduction in ⁻	Tilled Soils	Geomorph	nic Position (D2)
	Iron Deposits (B5)			\Box	Thin Muck Su	rface (C7)		☐ FAC-Neur	tral Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)		Gauge or Wel				
	Sparsely Vegetated C		0 , , ,		Other (Explain		z)		
Field Ob:	servations:	70110440 0	pariace (BO)	<u> </u>	Otrior (Explain	Till Romana	<i>,</i>		
		es 🗌	No 🛛 De	oth (inc	hes):				
					hes):				
	capillary fringe)	es 🛚	No 🗌 De	pui (inc	hes): <u>20</u>			Wetland Hydrology Preser	nt? Yes ☐ No ⊠
,	. , ,								
			_	II, aeria	l photos, prev	ious inspect	ions), if av	railable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	ibit 3), and Aerial photo						1 1	- Only 1 : 1	:
	•	osition (שב) indicato	does	not apply du	ie a drain ti	ie systen	n. Only one secondary ind	licator of wetland hydrology
observe	u.								
1									

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 16 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 1-3% Lat: Datum: Long: _ Soil Map Unit Name: Matherton silt loam (MmA) NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FACW** Prevalence Index = B/A = 1. Echinochloa crus-galii **Hydrophytic Vegetation Indicators:** <u> 25</u> \boxtimes **OBL** 2. Rorripa palustris 12 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 8 П **FACW** 4. Persicaria lapathifolia 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FAC** 5. Plantago rugelii ☐ 4 - Morphological Adaptations¹ (Provide supporting 3 OBL 6. Puccinellia distans data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland.

83

0

= Total Cover

= Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

			oth needed					2001100 01		
epth	Matrix		. ——		Redox Feat	tures Type ¹	. 2	_		5
ches)	Color (moist)	<u>%</u>	Color ((moist)	%	Туре	Loc ²	. ———	Texture	Remarks
2	2.5Y 2.5/1	100	- ——		<u> </u>		-	Clay loan		
22	2.5Y 4/1	90	10YR 4/4		10	C	PL M	Clay loan	1	
										_
								2		
	Concentration, D=Depl I Indicators:	etion, RM	1=Reduced	Matrix, MS	S=Masked S	Sand Grains				Lining, M=Matrix ematic Hydric Soils³:
	Histosol (A1)				Sandy Gle	yed Matrix (S	S4)	inaid	Coast Prairie F	
	Histic Epipedon (A2)			一一	Sandy Red		, . ,	亡	Dark Surface (
	Black Histic (A3)				Stripped M					se Masses (F12)
	Hydrogen Sulfide (A4)				Loamy Mu	icky Mineral (F1)		Very Shallow [Dark Surface (TF12)
	Stratified Layers (A5)				_	eyed Matrix (F	=2)		Other (Explain	in Remarks)
	2 cm Muck (A10)			무	_Depleted N		•			
	Depleted Below Dark Thick Dark Surface (A		(A11)	井		rk Surface (Fl Dark Surface				
	Sandy Mucky Mineral					pressions (F8		³ In	•	phytic vegetation and
	5 cm Mucky Peat or Pe	` '			_ Nodox Bo	pressions (r c	, ,		•	ogy must be present, ed or problematic.
	Layer (if observed):	. ,							Offices disturbe	or problematic.
Type:								Hvd	ric Soil Present?	Yes⊠ No □
Depth	n (inches):									
	T (IIIOIIes).									
ROLC	OGY									
ROLC			is required;	check all ti	that apply)				Secondary India	cators (minimum of two requ
ROLC	OGY Hydrology Indicators ary Indicators (minimul		is required;			ed Leaves (B	9)			•
ROLC	OGY Hydrology Indicators ary Indicators (minimul Surface Water (A1)	m of one	is required;	v	Water-Staine	ed Leaves (B	9)		Surface So	oil Cracks (B6)
ROLC etland I	OGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2	m of one	is required;	V	Water-Staine	na (B13)	•		Surface So	pil Cracks (B6) Patterns (B10)
ROLC etland I	OGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one	is required;	V A T	Water-Staine Aquatic Faur Frue Aquatic	na (B13) : Plants (B14))		Surface So Drainage F Dry-Seaso	poil Cracks (B6) Patterns (B10) Pon Water Table (C2)
ROLC etland I	OGY Hydrology Indicators ary Indicators (minimulators (Minimulators (Minimulators (Minimulators)) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one	is required;	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su	na (B13) : Plants (B14) ulfide Odor (C) (1)	ots (C3)	Surface So Drainage F Dry-Seaso Crayfish B	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8)
ROLC etland F	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (m of one	is required;	V	Water-Staine Aquatic Faur Irue Aquatic Hydrogen Su Oxidized Rhi	na (B13) : Plants (B14) ulfide Odor (C izospheres or) C1) n Living Ro	ots (C3)	Surface So Drainage F Dry-Seaso Crayfish B Saturation	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) In Visible on Aerial Imagery
ROLO etland I	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (Drift Deposits (B3)	m of one	is required;	V T F	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of	na (B13) Plants (B14) Ilfide Odor (C izospheres or Reduced Iror) C1) n Living Ro n (C4)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) on Visible on Aerial Imagery Stressed Plants (D1)
Prima	DGY Hydrology Indicators ary Indicators (minimulators (Minimulators) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (B4)	m of one	is required;	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I	na (B13) Plants (B14) Ulfide Odor (C izospheres or Reduced Iror Reduction in) C1) n Living Ro n (C4)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2)
Prima	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	m of one (2) (B2)		V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron F	na (B13) Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7)) C1) n Living Ro n (C4)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) on Visible on Aerial Imagery Stressed Plants (D1)
PROLO etland I	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	m of one	agery (B7)		Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Thin Muck So Gauge or We	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the) c1) n Living Ro n (C4) Tilled Soils		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2)
ROLC etland I	DGY Hydrology Indicators ary Indicators (minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	m of one	agery (B7)		Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Thin Muck So Gauge or We	na (B13) Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7)) c1) n Living Ro n (C4) Tilled Soils		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2)
ROLO Prima D D D D D D D D D D D D D D D D D D D	DGY Hydrology Indicators ary Indicators (minimulations) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Carvations:	m of one (B2) (B2) Aerial Imaconcave S	agery (B7) Surface (B8)	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Thin Muck So Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the) c1) n Living Ro n (C4) Tilled Soils		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2)
Prima	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Contervations: Vater Present?	m of one (B2) Aerial Imaconcave S es	agery (B7) Surface (B8) No ⊠ □	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Fhin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the) c1) n Living Ro n (C4) Tilled Soils		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2)
ROLO Prima	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Contervations: Vater Present? Viole Present?	(B2) Aerial Imaconcave S es es	agery (B7) Surface (B8) No ⊠ □ No □ □	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Fhin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the) c1) n Living Ro n (C4) Tilled Soils		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2)
ROLO Prima Prima D D D D D D D D D D D D D D D D D D D	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Contervations: Vater Present? Viole Present?	(B2) Aerial Imaconcave S es es	agery (B7) Surface (B8) No ⊠ □ No □ □	V	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Fhin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the	c1) n Living Ro n (C4) Tilled Soils	(C6)	Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) In Visible on Aerial Imagery Stressed Plants (D1) Inic Position (D2) Iral Test (D5)
Prima Prima Deld Observation cludes of escribe F	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corrections: Vater Present? Present? Present? Present? Present? Capillary fringe) Recorded Data (stream	m of one (P) (B2) Aerial Imaconcave S es es es en gauge, i	agery (B7) Surface (B8) No	Pepth (inchopepth (inchopepth)	Water-Stained Aquatic Faur Frue Aquatic Faur Frue Aquatic Hydrogen Substitution of Presence of Recent Iron Form Muck Stauge or We Dither (Explaines): Despired Presence of Presence of Recent Iron Form Muck Stauge or We Dither (Explaines): Despired Presence of Presence	na (B13) Plants (B14) Ilfide Odor (Control of the control of the c	c1) n Living Roon (C4) Tilled Soils s)	(C6) Wetland H	Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) In Visible on Aerial Imagery Stressed Plants (D1) Inic Position (D2) Iral Test (D5)
ROLC Prima Prima D D D D D D D D D D D D D D D D D D D	DGY Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Contervations: Vater Present? In Present?	m of one	agery (B7) Surface (B8) No	Pepth (inchopepth	Water-Staine Aquatic Faur Frue Aquatic Hydrogen Su Dxidized Rhi Presence of Recent Iron I Fhin Muck Si Gauge or We Other (Expla nes): photos, pre ea B (Exhibit	na (B13) E Plants (B14) Ulfide Odor (Control of Control	tions), if ava	(C6) Wetland H	Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) n Visible on Aerial Imagery Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\) No \(\)

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 17 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): broad swale Local relief (concave, convex, none): concave Slope (%): 0-2% Datum: Lat: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover UPL species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 20 **FACW** Prevalence Index = B/A = 1. Echinochloa crus-galli **Hydrophytic Vegetation Indicators:** <u>15</u> \boxtimes **OBL** 2. Amaranthus tuberculatus <u>15</u> \boxtimes **FACW** 3. Persicaria lapathifolia ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П OBL 4. Rorripa palustris 3 - Prevalence Index is ≤3.0¹ <u>10</u> **FACW** 5. Veronica peregrina ☐ 4 - Morphological Adaptations¹ (Provide supporting 8 **FACW** data in Remarks or on a separate sheet) 6. Panicum dichotomiflorum ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 **FACU** 7. Solidago altissima 3 **FACU** 8. Thlaspi arvense П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

88

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL								ig Point: <u>17</u>
Profile De	scription: (Describe t	o the dep	oth needed to doc	ument the ind	licator or con	firm the	absence of indicators.)	
Depth	Matrix			Redox Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	 Texture	Remarks
0-11	5Y 2.5/1	100					Clay loam	
11-16	5Y 5/1	92	10YR 4/4	8		PL M	Sandy clay loam	
16-24	5Y 5/1	80	10YR 4/4			PL M	Sandy loam	-
10 24	01 0/1		1011(4/4				- Canay loan	-
	-							•
¹Typo: C=	Concentration, D=Dep	lotion PM	1-Poducod Matrix	MS-Maskad S	Sand Grains		² Location: PL=Pore	Lining M-Matrix
	il Indicators:	ielion, raiv	i-Reduced Matrix,	WIS-Wasked S	dilu Giallis			ematic Hydric Soils ³ :
,	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	4)	☐ Coast Prairie	
	Histic Epipedon (A2)		_	 ☐ Sandy Red	-	,	Dark Surface	
	Black Histic (A3)		_	Stripped M	Matrix (S6)		☐ Iron-Mangane	se Masses (F12)
	Hydrogen Sulfide (A4))	_		ıcky Mineral (I			Dark Surface (TF12)
	Stratified Layers (A5)		_		eyed Matrix (F	2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)			Depleted N				
	Depleted Below Dark		(A11)		rk Surface (F6	,		
	Thick Dark Surface (A Sandy Mucky Mineral				Dark Surface (pressions (F8			ophytic vegetation and
	5 cm Mucky Peat or P		_	Redox De	pressions (i o	,		logy must be present, ed or problematic.
	e Layer (if observed):						Unless disturb	ed or problematic.
Туре							Hydric Soil Present	? Yes⊠ No □
	h (inches):						Tryunc 3011 r resent	: 163 🖂 110 🗀
Remarks:	,							
HYDROLO	OGY							
Wetland	Hydrology Indicators	:						
Prim	ary Indicators (minimu	m of one	is required; check a	all that apply)			Secondary Indi	cators (minimum of two required)
	Curface Water (A1)			Water Stains	ad Lagyes (DC	2)	Curface C	ail Cracks (B6)
블	Surface Water (A1)		<u> </u>	_	ed Leaves (B9	9)		oil Cracks (B6)
블	High Water Table (A2	2)	ᆜ	_ Aquatic Faur				Patterns (B10)
	Saturation (A3)			_	Plants (B14)			on Water Table (C2)
	Water marks (B1)			_ Hydrogen Su	ulfide Odor (C	1)	<u>⊠</u> Crayfish	Burrows (C8)
	Sediment Deposits (E	32)		Oxidized Rh	izospheres on	Living Ro	oots (C3)	No Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	(C4)	Stunted o	r Stressed Plants (D1)
	Algal Mat or Crust (B	4)		Recent Iron	Reduction in ⁻	Tilled Soils	s (C6) Geomorpl	nic Position (D2)
	Iron Deposits (B5)			Thin Muck S	urface (C7)		☐ FAC-Neu	tral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)	Gauge or W	ell Data (D9)			
	Sparsely Vegetated 0		· · · / <u>-</u>	_	in in Remarks	3)		
Field Obs	servations:	2000.70	ин (20)	O 11.0. (-,		
		es 🗌	No 🛛 Depth (i	nches):				
		_		nches): <u>22</u>	-			
				-	.d 11			
	capillary fringe)	es 🖂	ino 🔲 Debiii (i	nches): <u>0-6 an</u>	<u>iu 14</u>		Wetland Hydrology Prese	nt? Yes⊠ No 🗌
,	. , , , ,							
	·		monitoring well, ae	rıal photos, pre	evious inspecti	ions), if av	allable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
-	ibit 3), Aerial photos (E		DO) in dia atau da a			la avatan		
Remarks:	The Geomorphic P	osition (I	שב) indicator doe	s not apply d	iue a drain ti	ie systen	1.	

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 18 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 50% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare <u>FACU</u> **Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes 2. Thlaspi arvense 12 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% <u>10</u> П OBL 4. Rorripa palustris ☐ 3 - Prevalence Index is ≤3.0¹ 8 **FACU** 5. Erigeron canadensis ☐ 4 - Morphological Adaptations¹ (Provide supporting 5 OBL data in Remarks or on a separate sheet) 6. Amaranthus tuberculatus ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 3 **FACU** 7. Solidago altissima **FACW** 1 8. Frangula alnus ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Agricultural field.

<u>84</u>

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🛛

OIL							Sampiir	ig Point: <u>18</u>
Profile De	scription: (Describe t	o the dep	th needed to d	ocument the ind	licator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Fea	tures			
(inches)	Color (moist)	%	Color (mois	st) %	Type ¹	Loc ²	— Texture	Remarks
0-14	5Y 2.5/1	100				-	Clay loam	
14-24	5Y 5/2	90	10YR 4/6			PL M	Sandy clay loam	
14-24	31 3/2		10110 4/0		·		Sandy Clay Idam	
					·		-	•
						-		
								
			-				-	
1T C-	Otti D-D	lation DN	I-Dadioaad Mate	in MC-Maskad C	Named Oneine		21 anations DI -Dans	Lining Manhanis
_ , .	Concentration, D=Dep	ietion, Riv	I=Reduced Matr	ix, ivi5=iviasked S	sand Grains		² Location: PL=Pore	e Lining, M=Matrix ematic Hydric Soils³:
	Histosol (A1)			☐ Sandv Gle	eyed Matrix (S	S4)	Coast Prairie	
	Histic Epipedon (A2)			☐ Sandy Red		,	☐ Dark Surface	
	Black Histic (A3)			Stripped M	, ,		☐ Iron-Mangane	• ,
	Hydrogen Sulfide (A4)			Loamy Mu	ıcky Mineral ((F1)	☐ Very Shallow	Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	F2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)			Depleted I				
	Depleted Below Dark	•	A11)		rk Surface (F	•		
	Thick Dark Surface (Dark Surface			ophytic vegetation and
	Sandy Mucky Mineral			Redox De	pressions (F8	5)		logy must be present,
	5 cm Mucky Peat or Peat or Peet ayer (if observed):	. ,					Unless disturb	ed or problematic.
Type							Hudria Cail Brasant	2 Vac ⊠ No □
	:h (inches):						Hydric Soil Present	? Yes⊠ No □
Remarks:	().							
. tomanto								
HYDROL	OGY							
	Hydrology Indicators	:						
	nary Indicators (minimu		is required: chec	k all that apply)			Secondary Ind	cators (minimum of two required)
	•	111 01 0110 1	o required; once					
<u> </u>	Surface Water (A1)				ed Leaves (B	9)		oil Cracks (B6)
	High Water Table (A2	2)	<u></u>	Aquatic Faur				Patterns (B10)
	Saturation (A3)			True Aquatio	Plants (B14))	Dry-Seas	on Water Table (C2)
	Water marks (B1)		<u>_ </u>	<u> </u>	ulfide Odor (C	21)		Burrows (C8)
	Sediment Deposits (E	32)		Oxidized Rhi	izospheres or	n Living Ro	oots (C3) Saturation	No Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	n (C4)	☐ Stunted o	r Stressed Plants (D1)
	Algal Mat or Crust (B	4)		Recent Iron	Reduction in	Tilled Soils	s (C6) Geomorp	nic Position (D2)
	Iron Deposits (B5)	,	_	 ☐ Thin Muck S			<u>—</u>	tral Test (D5)
	Inundation Visible on	Aerial Ima	-	☐ Gauge or We			<u> </u>	
	Sparsely Vegetated C				in in Remark	c)		
Field Ob:	servations:	Jonicave C	dilace (DO)	Other (Expla	III III IXCIIIAIK	3)		
		es 🔲 🔝	No ⊠ Depth	n (inches):				
				, ,	-			
				(inches):				
	n Present? Y capillary fringe)	es 🛚	No 🗌 Depth	n (inches): 22			Wetland Hydrology Prese	nt? Yes ☐ No ⊠
,								
	•		•	aerial photos, pre	vious inspect	tions), if av	railable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo	•						
Remarks	Only one secondar	y indicat	or ot wetland h	nydrology obser	ved.			
I								

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: __ State: WI Sampling Point: 19 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): toeslope Local relief (concave, convex, none): concave Slope (%): 0-2% Datum: Lat: Long: _ Soil Map Unit Name: Ogden muck (Oc) NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>40</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **FACW Hydrophytic Vegetation Indicators:** <u>35</u> \boxtimes 2. Juncus dudleyi 10 OBL 3. Juncus nodosus ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 8 П **FAC** 4. Plantago rugelii 3 - Prevalence Index is ≤3.0¹ <u>5</u> П <u>OBL</u> 5. Alisma subcordatum ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FACW** 6. Salix amygdaloides data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 2 OBL 7. Typha angustifolia 8. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

105

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL Profile Dec	scription: (Describe	to the denth	needed to docu	ımant tha inc	dicator or con	firm the	ahsence o		g Point: <u>19</u>
		to the depti	i needed to doct				absence o	i ilidicators.)	
Depth	Matrix		0.1. ()	Redox Fea	Type ¹	. 2		- .	5 .
(inches)	Color (moist)	<u> </u>	Color (moist)	%		Loc ²		Texture	Remarks
0-24	N 2.5/	100				-	Muck		
							_		
• •	Concentration, D=Dep	oletion, RM=	Reduced Matrix, I	MS=Masked S	Sand Grains			ocation: PL=Pore	
-	il Indicators:		г	□ Sandy Cl	oved Matrix (S	4)	Ind		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)		<u>_</u>	Sandy Gi	eyed Matrix (S	4)	_	Coast Prairie F Dark Surface (
	Black Histic (A3)		<u> </u>		Matrix (S6)		_	☐ Iron-Manganes	•
	Hydrogen Sulfide (A4)			ucky Mineral (f	F1)	_		Dark Surface (TF12)
	Stratified Layers (A5)	,			eyed Matrix (F	-	_	, ☐ Other (Explain	
	2 cm Muck (A10)				Matrix (F3)	,	=	<u> </u>	,
	Depleted Below Dark	Surface (A1	1) [ark Surface (F6				
	Thick Dark Surface (A				Dark Surface (. ,	3	Indicators of Hydro	phytic vegetation and
	Sandy Mucky Mineral	(S1)		Redox De	pressions (F8)		•	ogy must be present,
	5 cm Mucky Peat or F	. ,						Unless disturbe	ed or problematic.
	e Layer (if observed)	:							
Type							Ну	dric Soil Present?	P Yes⊠ No □
Remarks:	h (inches):								
YDROLO	OGY								
	Hydrology Indicators	s:							
Prim	ary Indicators (minimu	ım of one is	required; check a	II that apply)				Secondary India	cators (minimum of two require
					ad Laguas (BC)			
井	Surface Water (A1)	0)	늗		ed Leaves (B9	")			oil Cracks (B6)
	High Water Table (A	2)	<u> </u>	Aquatic Fau	` '				Patterns (B10)
	Saturation (A3)				c Plants (B14)				on Water Table (C2)
<u></u>	Water marks (B1)		<u> </u>	, ,	ulfide Odor (C	,			Burrows (C8)
	Sediment Deposits (I	B2)			nizospheres on	_	oots (C3)	Saturation	n Visible on Aerial Imagery (C
	Drift Deposits (B3)			Presence of	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	34)		Recent Iron	Reduction in 7	Tilled Soils	s (C6)	Geomorph	ic Position (D2)
	Iron Deposits (B5)			Thin Muck S	Surface (C7)				ral Test (D5)
	Inundation Visible on	Aerial Imag	ery (B7)	Gauge or W	/ell Data (D9)				
	Sparsely Vegetated	Concave Sui	face (B8)	Other (Expla	ain in Remarks	s)			
Field Obs	servations:								
Surface W	Vater Present? Y	′es □ No	Depth (ir	ches):	_				
Water Tal	ble Present?	′es ⊠ No	Depth (ir	ches): 20					
Saturation	n Present?	′es ⊠ No	Depth (in	ches): 10			M/- 41 1	III. daala Baaaa.	V 🔽 N- 🗆
(includes	capillary fringe)			, —			wetiand	Hydrology Presen	nt? Yes⊠ No □
Describe	Recorded Data (strea	m gauge, mo	onitoring well, aer	ial photos, pre	evious inspecti	ions), if a	ı vailable: To	opo Maps (Exhibit 1	1), WWI Map (Exhibit 2), Soils
	ibit 3), Aerial photos (I		-		•	,			, , , , , , , , , , , , , , , , , , , ,
Remarks:	The image review	indicated tl	nat 5 out of 8 (6	3%) images	with normal	anteced	lent precip	itation showed s	ignatures of saturation(C9).
The Geo	morphic Position (D	02) indicato	r does not appl	y due a drai	n tile system.	-			

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 20 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): <u>0-2%</u> Datum: Lat: Long: _ Soil Map Unit Name: Ogden muck (Oc) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: <u>1</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>70</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare <u>FACW</u> **Hydrophytic Vegetation Indicators:** 12 2. Veronica peregrina 10 OBL 3. Amaranthus tuberculatus ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 8 П **FACU** 4. Erigeron canadensis 3 - Prevalence Index is ≤3.0¹ <u>5</u> П <u>OBL</u> 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting П 6. ____ data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Old field occasionally farmed.

105

0

= Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2.

No 🗌

OIL										g Point: <u>20</u>
Profile De	escription: (Describe t	o the dep	th needed t	o docun	nent the indi	icator or con	firm the a	absence	of indicators.)	
Depth	Matrix				Redox Feat	ures				
(inches)	Color (moist)	%	Color (r	noist)	%	Type ¹	Loc ²		Texture	Remarks
0-18	N 2.5/	100					'	Loam	_	
18-24	2.5Y 4/2	96	10YR 4/4		4	C	PL M	Sandy	clay loam	
		-					•	- 		
	_						-			
								_		
								_		
			-					_		-
¹Type: C=	Concentration, D=Dep	letion, RM	1=Reduced N	/atrix, M	S=Masked S	and Grains			² Location: PL=Pore	Lining, M=Matrix
,	il Indicators:							lı		ematic Hydric Soils³:
	Histosol (A1)					yed Matrix (S	4)		Coast Prairie F	
▎▕	Histic Epipedon (A2) Black Histic (A3)			_ <u></u>	Sandy Red Stripped M				Dark Surface (
+	Hydrogen Sulfide (A4)	1		+		cky Mineral (I	F1)			Dark Surface (TF12)
	Stratified Layers (A5)	'		一一		yed Matrix (F	-		Other (Explain	
	2 cm Muck (A10)				Depleted N		,		` ' '	,
	Depleted Below Dark	•	\11)			k Surface (F6	,			
	Thick Dark Surface (ark Surface			³ Indicators of Hydro	phytic vegetation and
- 브	Sandy Mucky Mineral				_Redox Dep	oressions (F8)			ogy must be present,
<u> </u>	5 cm Mucky Peat or P	_ , ,							Unless disturbe	ed or problematic.
Type	e Layer (if observed):							l.	badala Oali Baasaay	
	th (inches):							ľ	lydric Soil Present?	P Yes⊠ No □
Remarks:	(
IYDROL	OGY									
Wetland	Hydrology Indicators	:								
Prin	nary Indicators (minimu	m of one i	is required: c	heck all	that apply)				Secondary India	cators (minimum of two required)
			• •			-l.l	. \		_	· · · · ·
	Surface Water (A1)	•				d Leaves (B9	9)			oil Cracks (B6)
	High Water Table (A2	2)			Aquatic Faun					Patterns (B10)
	Saturation (A3)					Plants (B14)				n Water Table (C2)
<u> </u>	Water marks (B1)				-	Ifide Odor (C	•			urrows (C8)
	Sediment Deposits (E	32)				zospheres on	-	oots (C3)		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of I	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)			Recent Iron F	Reduction in ⁻	Tilled Soils	s (C6)	Geomorph	ic Position (D2)
	Iron Deposits (B5)				Thin Muck Su	urface (C7)				ral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We	ell Data (D9)				
	Sparsely Vegetated 0	Concave S	Surface (B8)		Other (Explai	in in Remarks	s)			
Field Ob	servations:									
Surface \	Water Present? Y	es 🗌 🔝	No 🛛 Do	epth (inc	hes):					
Water Ta	ble Present? Y	es 🗌 🔝	No 🛛 De	epth (inc	hes):					
Saturatio	n Present? Y	es 🛛	No 🔲 De	epth (inc	hes): 21			Matles	d Herdundon v Dunnon	va □ Na □
(includes	capillary fringe)				<i>,</i> —			wetian	d Hydrology Presen	nt? Yes ☐ No ☒
Describe	Recorded Data (strear	n gauge, r	monitorina w	ell. aeria	I photos, prev	vious inspecti	ions). if av	/ailable:	Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial phot		_	,	, ,,	'	,,			
Remarks	: Only one secondar	ry indicat	or of wetlar	nd hydro	ology observ	ved.				

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 21 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): toeslope Local relief (concave, convex, none): concave Slope (%): 0-2% Datum: Lat: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **FACW Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes 2. Cyperus esculentus 15 OBL 3. Rorripa palustris ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> П **FACW** 4. Veronica peregrina 3 - Prevalence Index is ≤3.0¹ 8 **FAC** 5. Plantago rugelii ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FACW** data in Remarks or on a separate sheet) 6. Juncus bufonius ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 2 NI (UPL) 7. Hibiscus trionium OBL 1 8. Typha angustifolia ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

96

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL							·	ng Point: <u>21</u>
Profile De	scription: (Describe	to the dep	oth needed to docur	nent the indi	cator or cor	nfirm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks
0-13	5Y 2.5/1	100				-	Clay loam	
13-15	5Y 5/1	85	10YR 3/6	10		PL M	Clay loam	with gravel
10-10	31 3/1		10GY 4/1			PL M	Clay loan	with graver
45.40	0.51/.4/0		•	5				
15-18	2.5Y 4/2	90	5GY 4/1	6	D	PL M	Sandy clay loam	with gravel
	-		10YR 4/6	4	C	PL M		_
18-24	5Y 5/1	85	2.5Y 4/4		C	PL M	Clay loam	
1.	0 ' ' ' D D		5GY 5/1	5	D .	PL M	21 (1 D) D	
	Concentration, D=Dep	oletion, RN	/I=Reduced Matrix, M	S=Masked Sa	and Grains		² Location: PL=Pore	e Lining, M=Matrix lematic Hydric Soils³:
-	Histosol (A1)			Sandy Glev	ed Matrix (S	34)	☐ Coast Prairie	
	Histic Epipedon (A2)		+	Sandy Red) 	Dark Surface	
	Black Histic (A3)			Stripped Ma	, ,			ese Masses (F12)
	Hydrogen Sulfide (A4)		Loamy Mud	cky Mineral (F1)	☐ Very Shallow	Dark Surface (TF12)
	Stratified Layers (A5)			Loamy Gle	yed Matrix (F	=2)	Other (Explai	n in Remarks)
	2 cm Muck (A10)			Depleted M	` '			
	Depleted Below Dark		A11) <u></u>		k Surface (F			
	Thick Dark Surface (ark Surface			ophytic vegetation and
- 브	Sandy Mucky Mineral			_Redox Dep	ressions (F8	3)		plogy must be present,
<u> </u>	5 cm Mucky Peat or F						Unless disturb	ped or problematic.
	e Layer (if observed)	•						· · · · · · · · · · · · · · · · · · ·
Type	: th (inches):						Hydric Soil Present	t? Yes⊠ No □
Remarks:								
r tomanto.								
IYDROL	ngy							
	Hydrology Indicators	·						
			is required; check all	that apply)			Secondary Ind	licators (minimum of two required)
<u> </u>	nary Indicators (minimu	in or one	is required, check air	шагарріу)			<u>Secondary ind</u>	licators (minimum of two required)
	Surface Water (A1)			Water-Staine	d Leaves (B	9)	Surface S	Soil Cracks (B6)
	High Water Table (A	2)		Aquatic Faun	a (B13)		Drainage	Patterns (B10)
	Saturation (A3)			True Aquatic	Plants (B14))	□ Dry-Seas	son Water Table (C2)
	Water marks (B1)			Hydrogen Su	lfide Odor (C	21)		Burrows (C8)
	Sediment Deposits (I	B2)		Oxidized Rhiz	zospheres or	n Living Ro	ots (C3) Saturation	on Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	,		Presence of F		-		or Stressed Plants (D1)
	Algal Mat or Crust (B	(4)		Recent Iron F				phic Position (D2)
	-	,¬,				Tilled Colls	· · · —	
	Iron Deposits (B5)	A! - 1 1		Thin Muck Su			FAC-Neu	utral Test (D5)
	Inundation Visible on		· · · · · —	Gauge or We	, ,			
Field Ob	Sparsely Vegetated	Concave S	Surface (B8)	Other (Explai	n in Remark	s)		
	servations:	. –	54 5					
		_		hes):				
		′es ⊠	No Depth (inc	hes): <u>22</u>				
		′es ⊠	No Depth (inc	hes): <u>14</u>			Wetland Hydrology Prese	ent? Yes⊠ No □
(includes	capillary fringe)							
Describe	Recorded Data (stream	m gauge,	monitoring well, aeria	l photos, prev	ious inspect	tions), if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), Aerial photos (I							
							ent precipitation showed	signatures of saturation(C9).
The Ged	omorphic Position (D	02) indica	tor does not apply	due a drain	tile system	١.		

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 22 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>0</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 0 0% (A/B) Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 20 **FACU** Prevalence Index = B/A = 1. Setaria faberi <u>FACU</u> **Hydrophytic Vegetation Indicators:** \boxtimes <u>18</u> 2. Capsella bursa-pastoris 12 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% 8 П OBL 4. Amaranthus tuberculatus 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FAC** 5. Plantago rugelii ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FACU** 6. Solidago altissima data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Old field/agricultural field.

68

00

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🛛

OIL									·	g Point: <u>22</u>
Profile De	scription: (Describe t	o the dep	th needed to	docun	nent the indi	cator or con	firm the a	absence	of indicators.)	
Depth	Matrix				Redox Feat	ures				
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²		Texture	Remarks
0-13	5Y 2.5/1	100						Clay	loam	
13-18	2.5Y 4/2	40	10YR 4/6		60	C	PL M	Clay		with gravel
18-24	5Y 4/2	85	10YR 4/6		15		PL M	Clay		with gravel
10-24	01 4/2		10111 4/0				- I L IVI	Olay	loam	with graver
1Typo: C-	Concentration, D=Dep	lotion PM	1-Poducod M	atrix M	S-Mackad Sc	and Grains			² Location: PL=Pore	Lining M-Matrix
	il Indicators:	ielion, ixiv	I-INEGUCEG IVI	auix, ivi	o-iviaskeu oa	and Grains				ematic Hydric Soils ³ :
-	Histosol (A1)				Sandy Gley	ed Matrix (S	4)	'	Coast Prairie	
	Histic Epipedon (A2)				 Sandy Red		,		Dark Surface (
	Black Histic (A3)				Stripped Ma	atrix (S6)			Iron-Mangane	se Masses (F12)
	Hydrogen Sulfide (A4)					cky Mineral (F	-			Dark Surface (TF12)
	Stratified Layers (A5)					yed Matrix (F	2)		Other (Explain	in Remarks)
	2 cm Muck (A10)				Depleted M					
	Depleted Below Dark	•	A11)	ᆛ		k Surface (F6	,			
	Thick Dark Surface (A Sandy Mucky Mineral			님		ark Surface (ressions (F8)				phytic vegetation and
	•				_ Nedox Dep	iressions (Fo	,		•	logy must be present,
	5 cm Mucky Peat or Peat or Peet ayer (if observed):							1	Uniess disturbe	ed or problematic.
Туре									Hydric Soil Present	? Yes □ No ⊠
	th (inches):								riyuric 3011 r resent	res No
Remarks:	· /									
<u> </u>										
HYDROL	OGY									
Wetland	Hydrology Indicators	:								
Prim	nary Indicators (minimu	m of one	is required; ch	eck all	that apply)				Secondary Indi	cators (minimum of two required)
	•					d I /D0			_	-
	Surface Water (A1)				Water-Staine	•))			oil Cracks (B6)
<u> </u>	High Water Table (A2	2)			Aquatic Faun					Patterns (B10)
	Saturation (A3)				True Aquatic				Dry-Seaso	on Water Table (C2)
	Water marks (B1)				Hydrogen Sul	Ifide Odor (C	1)		_⊠ Crayfish I	Burrows (C8)
	Sediment Deposits (E	32)			Oxidized Rhiz	zospheres on	Living Ro	oots (C3) <u> </u>	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of F	Reduced Iron	(C4)		Stunted or	r Stressed Plants (D1)
	Algal Mat or Crust (Ba	4)			Recent Iron F	Reduction in 1	Filled Soils	s (C6)	Geomorph	nic Position (D2)
	Iron Deposits (B5)			$\overline{}$	Thin Muck Su	ırface (C7)			FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We					,
	Sparsely Vegetated C		. , ,		Other (Explain	, ,	:)			
Field Ob	servations:	20110010	odridoc (Bo)	<u> </u>	Otrioi (Explain	TI III I COMUNIC	,,			
		es 🗌	No 🛛 De	oth (inc	hes):					
				,	hes):					
										
	n Present? Y capillary fringe)	es 🛚	No 🗌 De	otn (inc	hes): <u>19</u>			Wetlar	nd Hydrology Preser	nt? Yes ☐ No ⊠
,										
	•	-	-	II, aeria	l photos, prev	ious inspecti	ons), if av	vailable:	Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo	•								
Remarks	Only one secondar	y indicat	or of wetland	d hydro	ology observ	/ed.				
1										

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 23 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FACW** Prevalence Index = B/A = 1. Cyperus esculentua **Hydrophytic Vegetation Indicators:** <u>25</u> \boxtimes **FACW** 2. Veronica peregrina 10 OBL 3. Typha angustifolia ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 8 П **FAC** 4. Equisetum arvense 3 - Prevalence Index is ≤3.0¹ 7 П <u>OBL</u> 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> OBL data in Remarks or on a separate sheet) 6. Eleocharis obtusa ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 FAC 7. Plantago rugelii **FACW** 3 8. Juncus bufonius ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

93

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL							•	g Point: 23
Profile De	scription: (Describe	to the de	oth needed to docun			firm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat			_	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	5Y 2.5/1	100					Clay loam	
9-18	2.5Y 4/2	65	10YR 5/8	35	С	PL M	Clay loam	with gravel
18-28	5Y 4/1	60	7.5YR 4/6	40	С	PL M	Clay loam	
	Concentration, D=Dep	oletion, RN	/I=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	
•	il Indicators:			Candy Cla	vad Matrix (C	4)		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)		<u> </u>	Sandy Gle Sandy Red	yed Matrix (S	4)	☐ Coast Prairie ☐ Dark Surface	
	Black Histic (A3)		井	Stripped M	, ,		Iron-Mangane	
	Hydrogen Sulfide (A4)	-	_	cky Mineral (I	=1)		Dark Surface (TF12)
	Stratified Layers (A5)			_ Loamy Gle	eyed Matrix (F	2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)						<u> </u>	
	Depleted Below Dar		(A11) <u></u>		k Surface (F6			
	Thick Dark Surface (A Sandy Mucky Mineral			•	Dark Surface (pressions (F8	. ,		ophytic vegetation and
	-		<u> </u>	_ Nedox Del	0169910119 (1.0)	•	logy must be present,
	5 cm Mucky Peat or Fe Layer (if observed)						Onless disturbe	ed or problematic.
Туре		•					Hydric Soil Present	? Yes⊠ No □
	th (inches):						11,4110 0011 1100011	. 190 🖾 110 🗀
YDROL								
Wetland	Hydrology Indicators	s:						
Prim	nary Indicators (minimu	um of one	is required; check all	that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)			Water-Staine	ed Leaves (B9	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A	2)		Aquatic Faur	•	,		Patterns (B10)
	Saturation (A3)	,			Plants (B14)			on Water Table (C2)
	Water marks (B1)				ılfide Odor (C			Burrows (C8)
	Sediment Deposits (B2)			zospheres on	,		n Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	,			Reduced Iron	_		r Stressed Plants (D1)
	Algal Mat or Crust (E	34)			Reduction in ⁻			nic Position (D2)
	Iron Deposits (B5)	.,		Thin Muck S		i iliou oolio		tral Test (D5)
	Inundation Visible or	n Δerial Im			ell Data (D9)			irai 1001 (D0)
	Sparsely Vegetated		· · · · · —	•	in in Remarks	:)		
	servations:	Concave	bullace (bo) \	otilei (Expla	III III Kemarka	•)		
		∕es □	No 🛛 Depth (incl	nes):				
			No ☐ Depth (incl					
		_	No Depth (incl	•				_
	capillary fringe)	. 66 🔼	Tto 🗀 Bopan (mon	100). <u>10</u>			Wetland Hydrology Prese	nt? Yes⊠ No □
Describe	Recorded Data (strea	m gauge,	monitoring well, aeria	photos, pre	vious inspecti	ons), if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), Aerial photos (
	-		•	, -			ent precipitation showed s	signatures of saturation (C9).
THE GEO	omorphic Position ([) indica	nor does not apply	uue a drain	i ille system.			

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 24 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight toeslope Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 67% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare <u>FACU</u> **Hydrophytic Vegetation Indicators:** <u>15</u> \boxtimes 2. Thlaspi arvense <u>15</u> \boxtimes **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>10</u> П **FACW** 4. Echinochloa crus-galii 3 - Prevalence Index is ≤3.0¹ 8 <u>OBL</u> 5. Amaranthus tuberculatus ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> OBL 6. Rorripa palustris data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Old field/agricultural field.

83

0

= Total Cover

= Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

OIL									oling Point: <u>24</u>
Profile Des	scription: (Describe t	o the dep	oth needed to	docur	nent the indic	cator or con	firm the	absence of indicators.)	
Depth	Matrix				Redox Featu	ıres		<u></u>	
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 2/1	100						Clay loam	
9-11	2.5Y 3/1	93	10YR 3/3		7		PL M	Clay loam	
11-18	5Y 5/2	85	10YR 3/4		15		PL M	Clay loam	
18-24	10Y 5/1	80	10YR 5/8		20		PL M	Clay loam	
10-24	101 3/1	- 00	1011370				FL IVI	Clay loan	
								-	_
1Type: C=	Concentration, D=Dep	lation DN	1-Doduced M	otriv M	C-Maakad Ca	and Crains		21 continue DI -Do	ore Lining, M=Matrix
_ , .	il Indicators:	ietion, Kiv	i-Reduced ivi	auix, ivi	3-Maskeu Sa	iliu Grailis			blematic Hydric Soils ³ :
_	Histosol (A1)			П	Sandy Glev	ed Matrix (S	4)	Coast Prairi	
	Histic Epipedon (A2)				Sandy Red		,	Dark Surfac	
	Black Histic (A3)				Stripped Ma	atrix (S6)		☐ Iron-Manga	nese Masses (F12)
	Hydrogen Sulfide (A4)	1			Loamy Muc	ky Mineral (I	F1)	☐ Very Shallo	w Dark Surface (TF12)
	Stratified Layers (A5)					∕ed Matrix (F	2)	Other (Expl	ain in Remarks)
	2 cm Muck (A10)				Depleted M				
	Depleted Below Dark		(A11)			Surface (F6	,		
	Thick Dark Surface (A	,		片		ark Surface (-	drophytic vegetation and
	Sandy Mucky Mineral	, ,			Redox Depi	ressions (F8)	•	Irology must be present,
	5 cm Mucky Peat or P							Unless distu	rbed or problematic.
Type	Layer (if observed):							Unadala Onli Danas	
	 h (inches):							Hydric Soil Prese	nt? Yes⊠ No □
Remarks:	II (IIICIIC3)								
i terriarks.									
IYDROLO	nev								
	Hydrology Indicators								
	-							0	
Prim	ary Indicators (minimu	m of one	is required; ch	ieck all	that apply)			Secondary Ir	ndicators (minimum of two required)
	Surface Water (A1)				Water-Stained	d Leaves (B9	9)	Surface	Soil Cracks (B6)
	High Water Table (A2	2)			Aquatic Fauna	a (B13)		Drainag	je Patterns (B10)
	Saturation (A3)				True Aquatic I	Plants (B14)		☐ Dry-Sea	ason Water Table (C2)
	Water marks (B1)				Hydrogen Sul				n Burrows (C8)
	Sediment Deposits (E	32)			Oxidized Rhiz	•	•	 ·	ion Visible on Aerial Imagery (C9)
	Drift Deposits (B3)) <u>_</u>			Presence of R		-		l or Stressed Plants (D1)
		4)					` '		· ·
<u> </u>	Algal Mat or Crust (B	4)			Recent Iron R		i illea Solis		rphic Position (D2)
	Iron Deposits (B5)				Thin Muck Su			_⊠ FAC-Ne	eutral Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)		Gauge or Wel	ll Data (D9)			
	Sparsely Vegetated C	Concave S	Surface (B8)		Other (Explair	n in Remarks	s)		
Field Obs	servations:								
Surface W	Vater Present? Y	es 🗌	No 🛛 De	pth (inc	hes):				
Water Tak	ole Present? Y	es 🗌	No 🛛 De	pth (inc	hes):				
Saturation	n Present? Y	es 🛛	No 🗌 De	pth (inc	hes): <u>22</u>				10 V 🗆 N 🗖
(includes	capillary fringe)		_	. `	, <u>—</u>			Wetland Hydrology Pres	sent? Yes ☐ No ☒
Describe I	Recorded Data (stream	n dalide i	monitoring we	II aeria	Inhotos nrev	inus inspecti	ions) if av	vailable: Tono Mans (Eyhik	oit 1), WWI Map (Exhibit 2), Soils
	ibit 3), and Aerial photo		_	ıı, a c ıla	ii piiotos, piev	ious irispecti	onoj, ii dv	anabie. Topo iviaps (EXIIII	11, VVVVI WAP (EXHIDICZ), SUIS
		-	-	r dnes	not apply du	le a drain ti	le systen	n. Only one secondary i	ndicator of wetland hydrology
observed	•	OSIGOTI (I	<i>L_j</i> maloalo	4003	not apply du	o a arairi li	io dysicii	i. Only one secondary i	idiodioi oi wodalia liyarology
2200, 700									

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: __ State: WI Sampling Point: 25 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): toeslope Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Datum: Lat: Long: _ Soil Map Unit Name: Houghton muck (HtA NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **FACW Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes 2. Veronica peregrina 15 **FACW** 3. Echinochloa crus-galii ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П **FACW** 4. Juncus torreyi 3 - Prevalence Index is ≤3.0¹ <u>10</u> **OBL** 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting 8 **FACW** 6. Juncus dudleyi data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 OBL 7. Typha angustifolia 8. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

100

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL								Sampling Po	oint: <u>25</u>
Profile De	escription: (Describe	to the depth	needed to do	cument the inc	dicator or con	firm the	absence of indicat	ors.)	
Depth	Matrix			Redox Fea	atures				
(inches)	Color (moist)	%	Color (mois	t) %	Type ¹	Loc ²	Texture	;	Remarks
0-27	N 2.5/	100					Muck		
27-28	7.5YR 2.5/1	100					Peaty muck		
		· -							
	-	· -					_		
	-	· -					_		
71	Concentration, D=Dep	letion, RM=F	Reduced Matri	x, MS=Masked	Sand Grains			PL=Pore Lini	0:
,	oil Indicators:								tic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)				eyed Matrix (S edox (S5)	4)		st Prairie Redo (Surface (S7)	ox (A16)
 	-				Matrix (S6)			·Manganese M	lasses (F12)
	Hydrogen Sulfide (A4))			ucky Mineral (I	=1)		-	Surface (TF12)
	Stratified Layers (A5)				leyed Matrix (F	-		er (Explain in F	
	2 cm Muck (A10)			Depleted	Matrix (F3)				
	Depleted Below Dark	,	1)		ark Surface (F6	•			
	Thick Dark Surface (A				Dark Surface				tic vegetation and
	Sandy Mucky Mineral			Redox De	epressions (F8)			must be present,
Postrictiv	5 cm Mucky Peat or P	. ,					Unies	ss disturbed or	problematic.
Type		•					Hydric Soil	l Present?	Yes ⊠ No □
	th (inches):						liyane oon	i i i i i i i i i i i i i i i i i i i	163 🖂 110 🖂
IYDROL	OGY Hydrology Indicators								
	nary Indicators (minimu		required: checl	(all that apply)			Seco	ndarv Indicato	rs (minimum of two required)
	•				ad Laguas (DC)			
ᅵ	Surface Water (A1)	2)	<u></u>		ned Leaves (B9	")		Surface Soil C	` '
	High Water Table (A2	2)		Aquatic Fau				Drainage Patte	
	Saturation (A3)		_[ic Plants (B14)				Vater Table (C2)
 	Water marks (B1)	20)		, ,	Sulfide Odor (C	,		Crayfish Burr	
	Sediment Deposits (I	52)			nizospheres on	_	· · · · —		sible on Aerial Imagery (C9)
	Drift Deposits (B3)	4)			f Reduced Iron	` '			essed Plants (D1)
	Algal Mat or Crust (B	4)	_ <u>_</u> _		Reduction in	i illea Solis	· · · · —	Geomorphic P	
	Iron Deposits (B5)				Surface (C7)			FAC-Neutral 1	lest (D5)
무	Inundation Visible on	J	, , , <u> </u>	_	/ell Data (D9)				
Field Oh	Sparsely Vegetated (servations:	Concave Sur	face (B8)	∪ Other (Explain	ain in Remarks	S)			
		′es	o ⊠ Depth	(inches):					
		'es⊠ No		(inches): <u>18</u>					
									
	capillary fringe)	′es ⊠ No	Depth	(inches): <u>11</u>			Wetland Hydrolo	gy Present?	Yes⊠ No □
,	. , ,					· · · · · · · · · · · · · · · · · · ·		- /E1-11-14-4\\ \	MANUAL (Establish O) Osilis
	Recorded Data (strear nibit 3), Aerial photos (E		-		•	•	railable: Topo Map	s (⊏x∩idit 1), V	VWI Map (Exhibit 2), Soils
							ent precipitation s	showed signa	atures of saturation (C9).
	omorphic Position (D								
		•	·	*	-				

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 26 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): 0-2% Datum: Lat: Long: _ Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 50% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>35</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare <u>FACU</u> **Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes 2. Chenopodium album 15 OBL 3. Amaranthus tuberculatus ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% 12 П **FAC** 4. Plantago rugelii ☐ 3 - Prevalence Index is ≤3.0¹ П <u>10</u> <u>OBL</u> 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting 10 **FACW** data in Remarks or on a separate sheet) 6. Veronica peregrina ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Old field/agricultural field.

102

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🛛

SOIL Sampling Point: 26

Profile De	scription: (Describe t	o the dep	oth needed to docur	nent the ind	licator or con	firm the a	absence of indicators.)	
Depth	Matrix			Redox Feat	tures		<u></u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/1	100					Silt loam	
14-24	5Y 4/2	40	7.5YR 3/4	60	С	PL M	Sandy clay loam	with gravel
							-	
	Concentration, D=Dep	letion, RM	1=Reduced Matrix, M	S=Masked S	Sand Grains		² Location: PL=Pore	
-	il Indicators:			Sandy Cla	wad Matrix (C	4)		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)		-	Sandy Gle	eyed Matrix (S dox (S5)	4)	Coast Prairie Dark Surface	
	Black Histic (A3)			Stripped M			Iron-Mangane	
	Hydrogen Sulfide (A4)				ıcky Mineral (I	F1)		Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)			Depleted N				
	Depleted Below Dark	•	A11) <u></u>		rk Surface (F6	,		
	Thick Dark Surface (A Sandy Mucky Mineral				Dark Surface (pressions (F8			ophytic vegetation and
	5 cm Mucky Peat or P				pressions (i o	,		logy must be present, ed or problematic.
	e Layer (if observed):						Offices disturbe	ed of problematic.
	e:						Hydric Soil Present	? Yes □ No ⊠
Dept	th (inches):							
YDROL	DGY							
	Hydrology Indicators	:						
Prim	nary Indicators (minimu	m of one	is required; check all	that apply)			Secondary Indi	cators (minimum of two required)
П	Surface Water (A1)		П	Water-Staine	ed Leaves (B9	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A2	?)		Aquatic Faur	,	,		Patterns (B10)
	Saturation (A3)	,			Plants (B14)			on Water Table (C2)
	Water marks (B1)				ulfide Odor (C			Burrows (C8)
	Sediment Deposits (E	32)		-	izospheres on	•		visible on Aerial Imagery (C9)
	Drift Deposits (B3)	,			Reduced Iron	_	` ' 	r Stressed Plants (D1)
	Algal Mat or Crust (B	4)			Reduction in ⁻			nic Position (D2)
	Iron Deposits (B5)	-,		Thin Muck S			· / ·	ral Test (D5)
	Inundation Visible on	Aerial Im		Gauge or We	` '		<u> </u>	(- /
	Sparsely Vegetated C		· · · · —	•	in in Remarks	;)		
	servations:		24.1466 (26)	- (- / - / - / - / - / - / - / - / - / -		,		
Surface V	Vater Present? Y	es 🗌	No 🛛 Depth (inc	hes):	=.			
Water Ta	ble Present? Y	es 🗌	No 🛛 Depth (inc	hes):				
Saturatio	n Present? Y		No Depth (inc				Wedler Hillerie I	
(includes	capillary fringe)			, —			Wetland Hydrology Prese	nt? Yes ☐ No ☒
	•		•	l photos, pre	vious inspecti	ions), if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo							
Remarks	: No wetland hydrolo	yyy inaic	aluis ubserved.					

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 27 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): swale (depression) Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Lat: Datum: Long: _ Soil Map Unit Name: Ogden muck (Oc) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>35</u> **OBL** Prevalence Index = B/A = 1. Rorripa palustris **Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes **FAC** 2. Panicum capillare 15 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>10</u> П **FACW** 4. Persicaria lapathifolia 3 - Prevalence Index is ≤3.0¹ <u>5</u> **FACU** 5. Solidago altissima ☐ 4 - Morphological Adaptations¹ (Provide supporting 3 **FACU** data in Remarks or on a separate sheet) 6. Thlaspi arvense ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

88

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

Depth						iiiiiii tiie a	bsence of indicators.)	
	Matrix		<u>.</u>	Redox Feat			_	
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
.8	2.5Y 2.5/1	100					Silty clay loam	
·18	5Y 4/1	70	10YR 3/4	30	C	PL M	Clay loam	
3-25	5Y 5/1	85	7.5YR 3/4	15	С	PL M	Clay loam	
	Concentration, D=Depl	etion, RN	M=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	
	I Indicators: Histosol (A1)		Г	Sandy Gle	yed Matrix (S	4)	Indicators for Proble Coast Prairie F	
	Histic Epipedon (A2)			Sandy Red		.,	Dark Surface (
	Black Histic (A3)			Stripped M			Iron-Manganes	•
	Hydrogen Sulfide (A4)				cky Mineral (I			Oark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	2)	Other (Explain	in Remarks)
	2 cm Muck (A10) Depleted Below Dark	Curtosa	<u>\</u>		Matrix (F3) k Surface (F6	2)		
	Thick Dark Surface (A		(AII)	<u> </u>	Dark Surface	,	2	
	Sandy Mucky Mineral				pressions (F8		•	phytic vegetation and ogy must be present,
	5 cm Mucky Peat or Pe	` '		_ '	,	,	-	d or problematic.
	Layer (if observed):							'
Type:							Hydric Soil Present?	Yes ⊠ No □
Depth	h (inches):							
DROLO	OGY							
DROLC	OGY Hydrology Indicators	<u> </u>						
Wetland H			is required; check all	that apply)			Secondary India	cators (minimum of two required)
Wetland H	Hydrology Indicators: ary Indicators (minimul				ed Leaves (BS	9)		· · · · ·
Wetland H	Hydrology Indicators: ary Indicators (minimul Surface Water (A1)	m of one		Water-Staine	ed Leaves (BS))	Surface So	oil Cracks (B6)
Vetland F	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2	m of one		Water-Staine Aquatic Faur	na (B13)		Surface So	pil Cracks (B6) Patterns (B10)
Wetland H	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one		Water-Staine Aquatic Faur True Aquatic	na (B13) Plants (B14)		Surface So Drainage F Dry-Seaso	oil Cracks (B6) Patterns (B10) n Water Table (C2)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) Plants (B14) Ilfide Odor (C	1)	Surface So Drainage F Dry-Seaso Crayfish E	oil Cracks (B6) Patterns (B10) n Water Table (C2) Burrows (C8)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	na (B13) Plants (B14) Ilfide Odor (C zospheres or	1) Living Ro	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Saturation	oil Cracks (B6) Patterns (B10) n Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Prima	Ary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron	1) Living Ro	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Saturation Stunted or	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1)
Prima Prima O O O O O O O O O O O O O	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron	1) Living Ro	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2)
Prima	Algal Mat or Crust (B5) Hydrology Indicators: ary Indicators (minimul Minimul	m of one 2) 32)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of I Recent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in	1) Living Ro	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) I Visible on Aerial Imagery (C9) Stressed Plants (D1)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	m of one 2) 32) 4) Aerial Im		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck So Gauge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9)	1) Living Ro (C4) Filled Soils	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	pil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2)
Prima	Algal Mat or Crust (B5) Hydrology Indicators: ary Indicators (minimul Minimul	m of one 2) 32) 4) Aerial Im		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck So Gauge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in	1) Living Ro (C4) Filled Soils	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Carvations:	m of one (2) (32) (4) (5) (5) (6) (7) (7) (8) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9)	1) Living Ro (C4) Filled Soils	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations: Vater Present?	m of one 2) 32) 4) Aerial Im concave \$	aggery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9)	1) Living Ro (C4) Filled Soils	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	pil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Yelloge Present?	m of one (2) (32) (4) Aerial Im Concave S es	aggery (B7) Surface (B8) Depth (inc	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explainment): Ches): 25	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9)	1) a Living Roo (C4) Filled Soils	Surface So Drainage F Dry-Seaso Crayfish E ots (C3) Stunted or (C6) Geomorph	pil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2) Iral Test (D5)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Vater Present? Present? The Present? Th	m of one (2) (32) (4) Aerial Im Concave S es 🖂 es 🖂	aggery (B7) Surface (B8) No Depth (inc. No Depth (inc. No Depth (inc. monitoring well, aeria	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explaint Ches): 25 Ches): 15	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks	1) n Living Roo n (C4) Filled Soils s)	Surface So Drainage F Dry-Seaso Crayfish E Stunted or (C6) FAC-Neut Wetland Hydrology Presen	pil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2) Iral Test (D5)
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Contents Forevations: Vater Present? The Present? The Present? The Present? The Present? The Present (B4) The Present (B5) The Present (B5	m of one (2) (32) (4) Aerial Im Concave S es 🖂 es 🖂 n gauge, xhibit 4),	aggery (B7) Surface (B8) No Depth (incomonitoring well, aeria and Image review Ar	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain thes):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks	1) n Living Roo n (C4) Filled Soils s)	Surface So Drainage F Dry-Seaso Crayfish E Stunted or (C6) FAC-Neut Wetland Hydrology Presental	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2) In Position (D2) In Item (D5) In Visible on Aerial Imagery (C9) In Position (D2) In Item (D5) In Item (
Prima	Hydrology Indicators: ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Contents Forevations: Vater Present? The Present? The Present? The Present? The Present? The Present (B4) The Present (B5) The Present (B5	m of one (2) (32) (4) Aerial Im Concave S es 🖂 es 🖂 n gauge, (xhibit 4), ndicated	agery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain Ches): 25 Ches): 15 In photos, presence C (Exhibit	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks vious inspecti	1) Living Ro (C4) Filled Soils ions), if ava 14). antecede	Surface So Drainage F Dry-Seaso Crayfish E Stunted or (C6) FAC-Neut Wetland Hydrology Presental	oil Cracks (B6) Patterns (B10) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) Stressed Plants (D1) Ic Position (D2) Iral Test (D5) In Visible on Aerial Imagery (C9) In Visible on Aerial Imagery (C9) In Position (D2) In Imagery (C9) In

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 08/28/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: ___ State: WI Sampling Point: 28 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): toeslope Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Datum: Lat: Long: _ Soil Map Unit Name: Ogden muck (Oc) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes **OBL** 2. Rorripa palustris 15 **FACW** 3. Echinochloa crus-galli ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П **FACW** 4. Veronica peregrina 3 - Prevalence Index is ≤3.0¹ П <u>10</u> **OBL** 5. Amaranthus tuberculatus ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FACU** data in Remarks or on a separate sheet) 6. Solidago altissima ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 3 **FACU** 7. Thlaspi arvense 8. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

95

0

= Total Cover

☐ = Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

	scription: (Describe to	o the dep	otn needed t				itirm the a	bsence of	indicators.)	
Depth	Matrix				Redox Feat			_		
nches)	Color (moist)	%	Color (r	noist)	%	Type ¹	Loc ²	. ———	Texture	Remarks
15	10YR 2/1	100						Silty clay	loam	
-25	10Y 5/1	60	10YR 3/6		40	C	PL M	Sandy cla	ay loam	
										_
				4 4 1 140				21		
	Concentration, D=Deplin	etion, Riv	1=Reduced IV	/latrix, MS=	-Masked S	and Grains				Lining, M=Matrix ematic Hydric Soils³:
	Histosol (A1)			<u> </u>	Sandy Gle	yed Matrix (S	64)		Coast Prairie	
	Histic Epipedon (A2)				Sandy Red	dox (S5)			Dark Surface (•
	Black Histic (A3)				Stripped M	. ,				se Masses (F12)
	Hydrogen Sulfide (A4)				-	cky Mineral (<u> </u>		Dark Surface (TF12)
	Stratified Layers (A5) 2 cm Muck (A10)				Loamy Gle Depleted N	eyed Matrix (F	-2)		Other (Explain	in Remarks)
	Depleted Below Dark S	Surface (/	A11)			k Surface (F6	6)			
	Thick Dark Surface (A	•	,			Dark Surface	•	³ lr	ndicators of Hydro	ophytic vegetation and
	Sandy Mucky Mineral ((S1)		F	Redox Dep	oressions (F8	3)		•	ogy must be present,
	5 cm Mucky Peat or Pe	eat (S3)							Unless disturbe	ed or problematic.
	Layer (if observed):									
Type:	: h (inches):							Hyd	ric Soil Present	? Yes⊠ No □
DROLO										
etland H	OGY Hydrology Indicators: ary Indicators (minimur		is required; c	:heck all tha	at apply)				Secondary Indi	cators (minimum of two require
etland H	Hydrology Indicators: ary Indicators (minimur		is required; c			ed Leaves (B	9)			
etland H	Hydrology Indicators: ary Indicators (minimur Surface Water (A1)	m of one	is required; c	Wa	ater-Staine	ed Leaves (BS	9)		Surface S	oil Cracks (B6)
Prima	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2	m of one	is required; c	Wa	ater-Staine luatic Faur	na (B13)	,		Surface Solution	oil Cracks (B6) Patterns (B10)
etland H	Hydrology Indicators: ary Indicators (minimur Surface Water (A1)	m of one	is required; c	☐ Wa	ater-Staine quatic Faur ue Aquatic	na (B13) Plants (B14)	, 1		Surface Solution Drainage I	poil Cracks (B6) Patterns (B10) pon Water Table (C2)
Prima	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one	is required; c	U Wa	ater-Staine quatic Faur ue Aquatic rdrogen Su	na (B13) Plants (B14) Ilfide Odor (C	:1)	ots (C3)	Surface Solution Drainage I Dry-Sease Crayfish I	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
Prima	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one	is required; c	U Wa	ater-Staine quatic Faur ue Aquatic vdrogen Su kidized Rhi	na (B13) Plants (B14)	:1) n Living Ro	ots (C3)	Surface Solution Drainage I Dry-Sease Crayfish I Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (
Prima	Ary Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one	is required; c	U Wall	ater-Staine quatic Faur ue Aquatic rdrogen Su kidized Rhi esence of	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror	:1) n Living Ro		Surface Solution Drainage I Dry-Sease Crayfish I Saturation Stunted or	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) Stressed Plants (D1)
Prima	Ary Indicators: ary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B4) Drift Deposits (B3) Algal Mat or Crust (B4)	m of one	is required; c	UVA	ater-Staine quatic Faur ue Aquatic rdrogen Su kidized Rhi esence of lecent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror	:1) n Living Ro		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) on Stressed Plants (D1) onic Position (D2)
Prima	And the state of t	m of one (2)		Wa Aq Tru Hy Ox Pre Re Th	ater-Staine quatic Faur ue Aquatic rdrogen Su xidized Rhi esence of lecent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7)	:1) n Living Ro		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) Stressed Plants (D1)
Prima	Ary Indicators: ary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A	m of one	agery (B7)	□ Wa □ Aq □ Tru □ Hy □ Ox □ Pre □ Re □ Th □ Ga	ater-Staine quatic Faur ue Aquatic vdrogen Su kidized Rhi esence of ecent Iron F hin Muck Si auge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) on Stressed Plants (D1) onic Position (D2)
Prima	And the state of t	m of one	agery (B7)	□ Wa □ Aq □ Tru □ Hy □ Ox □ Pre □ Re □ Th □ Ga	ater-Staine quatic Faur ue Aquatic vdrogen Su kidized Rhi esence of ecent Iron F hin Muck Si auge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7)	:1) n Living Ro n (C4) Tilled Soils		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) on Stressed Plants (D1) onic Position (D2)
Prima	Ary Indicators: ary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Asparsely Vegetated Contervations:	m of one	agery (B7) Surface (B8)	□ Wa □ Aq □ Tru □ Hy □ Ox □ Pre □ Re □ Th □ Ga	ater-Staine quatic Faur ue Aquatic rdrogen Su kidized Rhi esence of ecent Iron F ein Muck Si auge or We her (Explai	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) on Stressed Plants (D1) onic Position (D2)
Prima	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Conservations:	m of one	agery (B7) Surface (B8) No ⊠ De	Uxania Aquania	ater-Staine quatic Faur ue Aquatic vdrogen Su kidized Rhi esence of ecent Iron F auge or We her (Explaines):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (Ca) on Stressed Plants (D1) onic Position (D2)
Prima Prima Prima O O O O O O O O O O O O O O O O O O O	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Corvations: Vater Present? Yea	m of one	agery (B7) Surface (B8) No ⊠ De No □ De	Wa Aq Tru Hy Ox Pre Th Ga Ott	ater-Staine quatic Faur ue Aquatic vdrogen Su kidized Rhi esence of ecent Iron F nin Muck Si auge or We her (Explaines):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) n Living Ro n (C4) Tilled Soils	(C6)	Surface Solution Surface Solution Drainage I Dry-Seaso Crayfish I Saturation Stunted or Geomorph FAC-Neur	poil Cracks (B6) Patterns (B10) pon Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (Ca) Stressed Plants (D1) Inic Position (D2) Iral Test (D5)
Prima Prima Prima D D D D D D D D D D D D D D D D D D D	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Corvations: Vater Present? Yea	m of one	agery (B7) Surface (B8) No ⊠ De No □ De	Wa Aq Tru Hy Ox Pro Re Th Ga Ott epth (inche epth (inche	ater-Staine quatic Faur ue Aquatic vdrogen Su kidized Rhi esence of ecent Iron F nin Muck Si auge or We her (Explaines):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) n Living Ro n (C4) Tilled Soils	(C6)	Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) pon Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (Ca) Stressed Plants (D1) Inic Position (D2) Iral Test (D5)
Prima	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Coservations: Vater Present? Present? Present? The Present? Yellog Present? Present? Capillary fringe) Recorded Data (stream	m of one	agery (B7) Surface (B8) No	Wa Aq Tru Hy Ox Pru Re Th Ga Ott epth (inche	ater-Staine quatic Faur ue Aquatic rdrogen Su kidized Rhi esence of l ecent Iron F hin Muck Si auge or We her (Explaines):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	ict) In Living Roon (C4) Tilled Soils s)	(C6) Wetland H	Surface Solution Stunded or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) pon Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (Ca) Stressed Plants (D1) Inic Position (D2) Iral Test (D5)
Prima	Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Controls: Vater Present? Present.	m of one	agery (B7) Surface (B8) No	Wa Aq Tru Hy Ox Pro Re Th Ga Ott epth (inche	ater-Staine quatic Faur ue Aquatic rdrogen Su kidized Rhi esence of lecent Iron F ain Muck Si auge or We her (Explaines): es): sp): hotos, previct (Exhibit	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	ict) In Living Roon In (C4) Tilled Soils Is) In (C4) It is a second to the content of the conten	(C6) Wetland H	Surface Solution Surface Solution Surface Solution Stunted or Geomorph FAC-Neuron Surface Solution Surface S	poil Cracks (B6) Patterns (B10) pon Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (Ca) Stressed Plants (D1) Inic Position (D2) Irral Test (D5) Internal Test (D5) Internal Test (D5) Internal Test (D5)

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 08/28/2019 Applicant/Owner: _ State: WI Sampling Point: 29 Investigator(s): Chris Jors, Jen Dietl, Dan Carter; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Slope (%): 0-2% Lat: Datum: Long: _ Soil Map Unit Name: Ogden muck (Oc) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: <u>1</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>50</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** 12 OBL 2. Amaranthus tuberculatus 10 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 6 П **FACU** 4. Solidago altissima 3 - Prevalence Index is ≤3.0¹ <u>5</u> <u>OBL</u> 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting 2 **FAC** 6. Xanthium strumarium data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Old field/agricultural field.

85

0

= Total Cover

= Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

OIL							· · · · · · · · · · · · · · · · · · ·	ig Point: <u>29</u>
Profile De	scription: (Describe t	o the dep	th needed to doo	ument the ind	licator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Fea	tures		<u></u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-17	10YR 2/1	100					Loam	
17-24	2.5Y 4/2	30	10YR 4/6			PL M	Sandy clay loam	with gravel
	2.01 1/2		101111110				- Carray day rourn	- Willing Graves
			-		· 	-	-	
	· -							-
	-		-			-		•
			-					
1Typo: C-	Concentration, D=Dep	lotion PM	-Poducod Matrix	MS-Maskad S	Cand Grains		² Location: PL=Pore	Lining M-Matrix
_ , .	il Indicators:	ielion, ixiv	-Neduced Matrix,	IVIO-IVIASKEU C	and Grains			ematic Hydric Soils ³ :
_	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	64)	Coast Prairie	
	Histic Epipedon (A2)		_	 ☐ Sandy Re		,	Dark Surface	
	Black Histic (A3)		_	Stripped M	fatrix (S6)		☐ Iron-Mangane	
	Hydrogen Sulfide (A4)		_		icky Mineral (Dark Surface (TF12)
	Stratified Layers (A5)		_		eyed Matrix (F	- 2)	Other (Explain	n in Remarks)
	2 cm Muck (A10)				Matrix (F3)	•		
	Depleted Below Dark S Thick Dark Surface (A	•			rk Surface (F6 Dark Surface	,		
	Sandy Mucky Mineral				pressions (F8			ophytic vegetation and
	5 cm Mucky Peat or Pe		-		pressions (i o	,,		logy must be present, ed or problematic.
	e Layer (if observed):	. ,					Offices disturbe	ed of problematic.
Туре							Hydric Soil Present	? Yes □ No ⊠
	h (inches):						Trydric don't resent	103 100 2
	No hydric soil indicat	tors obse	erved.				1	
	•							
HYDROLO	OGY							
Wetland	Hydrology Indicators	:						
Prim	ary Indicators (minimu	m of one i	s required; check	all that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)			Water Stain	ed Leaves (B9	0)	☐ Surface S	oil Cracks (B6)
	` ,			_	•	5)		, ,
	High Water Table (A2	2)	<u> </u>	_ Aquatic Fau				Patterns (B10)
	Saturation (A3)				Plants (B14)			on Water Table (C2)
- <u>-</u>	Water marks (B1)		<u> </u>	_	ulfide Odor (C	,	 ·	Burrows (C8)
	Sediment Deposits (E	32)		Oxidized Rh	izospheres or	n Living Ro	oots (C3)	Nisible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	n (C4)	Stunted o	r Stressed Plants (D1)
	Algal Mat or Crust (Ba	4)		_ Recent Iron	Reduction in	Tilled Soils	Geomorph Geomorph	nic Position (D2)
	Iron Deposits (B5)			Thin Muck S	urface (C7)		_ ☐ FAC-Neu	tral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)	Gauge or W	ell Data (D9)			
	Sparsely Vegetated C	Concave S	urface (B8)	Other (Expla	in in Remarks	s)		
Field Obs	servations:					,		
Surface V	Vater Present? Y	es 🔲 🔝	No 🛛 Depth (inches):	_			
Water Tal	ble Present? Y			inches):				
				nches): <u>22</u>				
	capillary fringe)						Wetland Hydrology Preser	nt? Yes ☐ No ⊠
,			manitaring wall ag	rial photos pro	viava inanaat	iona) if a	ailabla: Tana Mana /Fyhihit	1) MANI Man (Exhibit 2) Saila
	Recorded Data (strean iibit 3), and Aerial photo		•	riai priotos, pre	wious inspect	ions), ir av	a⊪aыe. Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
. ,	Only one secondar	•		drology obser	ved			
i temants.	. Only one secondar	, indicat	or or welland my	arology obser	vou.			

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Lynn Kurer and Wayne Bushberger Properties	City/County: Cit	ty of Muskego	/Waukesha C	•	Sampling Date: 09/04/2019
.pplicant/Owner: nvestigator(s): <u>Chris Jors, Jen Dietl, Shane Heyel; SEWRPC</u>	Section	on Townshin	Range: NW	State: <u>WI</u> 1/4 Section 13, T5N, R2	Sampling Point: 30 & Probe 2
andform (hillslope, terrace, etc.): <u>depression</u>			_	one): <u>concave</u>	<u>oc</u>
	Long:	(-,,		Datum:
oil Map Unit Name: Ashkum silty clay loam (AsA)	<u> </u>			NWI clas	ssification: none
re climatic/hydrologic conditions on the site typical for this til			_ `	o, explain in Remarks)	
re Vegetation, Soil, or Hydrology signific				ces" present? Yes	No 🗌
re Vegetation, Soil, or Hydrology natural	ly problematic?	(If, needed,	explain any a	answers in Remarks.)	
UMMARY OF FINDINGS – Attach site map showing sam	pling point locati	ions, transect	ts, important	features, etc.	
Hydrophytic Vegetation Present?	lo	Is the Samp within a We		⊠ Yes	□No
Remarks: 90-day antecedent precipitation is normal. area. Equisetum hyemale (FACW) was dominant. H	lydric soils were	present and	saturation	was observed at 11" w	
Given that all three wetland parameters were present	nt, Probe site 2	was determir	ned to be in	wetland.	
EGETATION – Use scientific names of plants.	<u> </u>			T	
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test we	orksheet:
1				Number of Dominant S	pecies
2				That are OBL, FACW,	or FAC: <u>2</u> (A)
3				Total Number of Domir	nant
4	· 			Species Across All Stra	
	· 			·	
5				Percent of Dominant S	
	<u>0</u>	= Total Co	vei	That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index wor	ksheet:
1				Total % Cover of:	Multiply by:
2				OBL species	x 1 =
3				FACW species	x 2 =
4				FAC species	x 3 =
5				FACU species	x 4 =
	<u>0</u>	= Total Co	ver	UPL species	x 5 =
Herb Stratum (Plot size: 5' radius)				Column Totals:	(A) (B
1. Rorripa palustris	<u>25</u>	\boxtimes	<u>OBL</u>		Index = B/A =
	<u>20</u>	\boxtimes	FACW	Hydrophytic Vegetati	· · · · · · · · · · · · · · · · · · ·
2. <u>Veronica peregrina</u>					
3. <u>Hibiscus trionum</u>	<u>18</u>		NI (UPL)	☐ 1 - Rapid Test for H	
4. Cyperus esculentus	<u>15</u>		<u>FACW</u>	2 - Dominance Te	
5. Echinochloa crusgalli	<u>10</u>		FACW	3 - Prevalence Inde	ex is ≤3.01 ∖daptations¹ (Provide supporting
6. Typha angustifolia	<u>10</u>		<u>OBL</u>		s or on a separate sheet)
	<u>3</u>		FAC		drophytic Vegetation¹ (Explain)
7. <u>Juncus dudleyi</u>		=			,
8. Alisma subcordatum	<u>2</u>	Ц	<u>OBL</u>	1 1 - 11 - 1	Standards CO C C
9. <u>Cirsium arvense</u>	<u>1</u>		<u>FACU</u>	Be present, unless dist	oil and wetland hydrology must
10				Do prosont, unicos dist	arboa or problematic.
	<u>104</u>	= Total Co	ver		
Woody Vine Stratum (Plot size: 30' radius)				Hydrophytic	
1				Vegetation	.
2				Present? Yes	s⊠ No □
	0	= Total Co	ver		
!					

Profile De	scription: (Describe t	o the der	nth needed	to docur	nent the indi	cator or con	ofirm the :	absence of in		g Point: <u>30</u>
		o the dep	Jiii ileeueu	to docui				absence of in	iuicators.)	
Depth	Matrix Color (moint)	0/	Color	(maint)	Redox Featu %	Type ¹	Loc ²		a veti i ra	Domarka
(inches) 0-6	Color (moist) 10YR 3/1		10YR 5/4	(moist)		C	PL M		exture	Remarks
6-13	10YR 3/1 10YR 3/1	<u>95</u> 85	10YR 5/4 10YR 4/6					Silty clay lo	Dam .	
0-13	10113/1	- 65			_ 10		PL M	Clay loam		
13-24	5GY 6/1	75	5Y 5/1 10YR 5/6		<u>5</u> 25		M PL M	Clay loam		
13-24	361 0/1	75	10113/0	<u> </u>			FL IVI	Clay loam		
								_		
										-
¹Type: C=	Concentration, D=Dep	letion, RM	1=Reduced	Matrix, M	S=Masked Sa	and Grains		² Loc	ation: PL=Pore	Lining, M=Matrix
,	il Indicators:									ematic Hydric Soils³:
	Histosol (A1)			<u> </u>		ed Matrix (S	54)		Coast Prairie F	
	Histic Epipedon (A2) Black Histic (A3)			<u> </u>	Sandy Redo				Dark Surface (se Masses (F12)
	Hydrogen Sulfide (A4)			一一		ky Mineral (I	F1)		_	Dark Surface (TF12)
	Stratified Layers (A5)					yed Matrix (F	-		 Other (Explain	
	2 cm Muck (A10)				Depleted M		•		_ ` `	,
	Depleted Below Dark	•	A 11)			k Surface (F	,			
	Thick Dark Surface (A				•	ark Surface	. ,	³ Ind		phytic vegetation and
	Sandy Mucky Mineral			<u> </u>	Redox Depi	ressions (F8)		•	ogy must be present,
	5 cm Mucky Peat or Peat or Peet ayer (if observed):								Unless disturbe	ed or problematic.
Туре								Hydri	c Soil Present?	P Yes⊠ No □
	th (inches):							liyan	c con i resent:	TOS A NO A
Remarks:								•		
1										
IYDROL										
Wetland	Hydrology Indicators	:								
Prim	nary Indicators (minimu	m of one	is required;	check all	that apply)				Secondary Indic	cators (minimum of two required)
	Surface Water (A1)				Water-Stained	d Leaves (B9	9)		☐ Surface So	oil Cracks (B6)
	High Water Table (A2	2)			Aquatic Fauna	•	•	_	 ☐ Drainage F	Patterns (B10)
\boxtimes	Saturation (A3)	,			· True Aquatic l			_		on Water Table (C2)
	Water marks (B1)				Hydrogen Sul			_		Burrows (C8)
	Sediment Deposits (E	32)			Oxidized Rhiz	ospheres or	n Livina Ro	_		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	,			Presence of F		_	· · · · -		Stressed Plants (D1)
	Algal Mat or Crust (I	R4)			Recent Iron F		` '	_		ic Position (D2)
	Iron Deposits (B5)	J-1,			Thin Muck Su		i imea o	_		ral Test (D5)
	Inundation Visible on	Aorial Im	agon/ (B7)		Gauge or Wel			_	I AC-Neut	rai rest (D3)
ᅵ			• • • • •		-	. ,	-\			
Field Ob	Sparsely Vegetated C servations:	Jonicave 3	burrace (Do) Ц	Other (Explair	ı in Remarks	5)			
		es 🗌	No 🛛 [Depth (inc	hes).					
		_		Depth (inc	-					
					-	urfaca)				
	capillary fringe)	es 🛚	No 🗌 [Jepin (inc	hes): <u>0 (at su</u>	<u>irrace)</u>		Wetland Hy	drology Preser	nt? Yes⊠ No 🏻
,					l l t		:> :6		Mana /Fabilita	4) MAA(I Mass (Fasts 15 (6 0) Os its
	Recorded Data (strean iibit 3), Aerial photos (E		_			•		/allable: Topo	ıvıaps (Exhibit ´	1), WWI Map (Exhibit 2), Soils
								ent precipita	tion showed s	ignatures of saturation (C9).
	omorphic Position (D			•	, -			on prodipita	aon onowed s	ignatures or suturation (00).
	, 1113(5	,				- ,				

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: <u>09/04/2019</u> Applicant/Owner: _ State: WI Sampling Point: 31 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Long: _ Slope (%): 0-2% Lat: Datum: Soil Map Unit Name: Ashkum silty clay loam (AsA) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 67% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **FACW Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes 2. Veronica peregrina 18 \boxtimes **FACU** 3. Erigeron canadense ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> П **FACU** 4. Thlaspi arvense 3 - Prevalence Index is ≤3.0¹ **FACU** <u>10</u> 5. Solidago altissima ☐ 4 - Morphological Adaptations¹ (Provide supporting 6 **FACW** data in Remarks or on a separate sheet) 6. Echinochloa crus-galli ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 **FACU** 7. Cirsium arvense 5 OBL 8. Rorripa palustris 2 <u>OBL</u> ¹ Indicators of hydric soil and wetland hydrology must 9. Amaranthus tuberculatus Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) The sample site area has been fallow for one year, but has been recently herbicided. Agricultural field.

<u>1</u>

107

0

☐ = Total Cover

= Total Cover

OBL

Hydrophytic

Vegetation Present?

10. Typha angustifolia

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL									Sampling) Point: <u>31</u>
Profile De	scription: (Describe t	o the dep	oth needed to	docur	nent the indi	cator or con	firm the a	absence	of indicators.)	
Depth	Matrix				Redox Feat	ures				
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²		Texture	Remarks
0-6	10YR 3/1	100						Loam		
6-14	10YR 3/1	95	7.5YR 3/4		5		PL M	Loam	_	
		50	10YR 5/8							
14-24	2.5Y 6/2	- 50	10113/6		50		PL M	Clay I	oam	
			· 							
			·							
	<u> </u>									
1T C-	Consentation D-Don	lation DN	1-Dadwaad M	-4uis N A	C-Maakad C				21ti DID	Lining Ad-Marketin
_ , .	Concentration, D=Dep	ietion, Riv	i=Reduced ivi	atrix, ivi	S=Masked Sa	and Grains		-	² Location: PL=Pore	matic Hydric Soils³:
	Histosol (A1)			П	Sandy Glev	yed Matrix (S	4)	•	Coast Prairie R	
	Histic Epipedon (A2)				Sandy Red		,		Dark Surface (
	Black Histic (A3)				Stripped Ma	atrix (S6)			Iron-Manganes	se Masses (F12)
	Hydrogen Sulfide (A4))				cky Mineral (f	-			Oark Surface (TF12)
	Stratified Layers (A5)					yed Matrix (F	2)		Other (Explain	in Remarks)
	2 cm Muck (A10)				Depleted M					
	Depleted Below Dark Thick Dark Surface (A	•	A11)		<u> </u>	r k Surface (F)ark Surface (,			
	Sandy Mucky Mineral					ressions (F8				phytic vegetation and
	5 cm Mucky Peat or P					703310113 (1 0	,			ogy must be present, d or problematic.
	e Layer (if observed):	. ,							Offiess disturbe	d of problematic.
Туре								١,	Hydric Soil Present?	Yes⊠ No □
	th (inches):								Tyuric don't resent:	ICS A NO A
Remarks:	· / -							ı		
<u> </u>										
HYDROL	OGY									
Wetland	Hydrology Indicators	:								
Prim	nary Indicators (minimu	m of one	is required; ch	eck all	that apply)				Secondary Indic	cators (minimum of two required)
	Surface Water (A1)				Water-Staine	d Looyoe (B0	2)		□ Surface Se	oil Cracks (B6)
	, ,	2)				•	")			` '
	High Water Table (A2	<u>2)</u>			Aquatic Faun					Patterns (B10)
	Saturation (A3)				True Aquatic					n Water Table (C2)
<u> </u>	Water marks (B1)				Hydrogen Su	,	•			urrows (C8)
<u> </u>	Sediment Deposits (E	32)			Oxidized Rhiz		•	oots (C3)		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of F	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)			Recent Iron F	Reduction in T	Tilled Soils	s (C6)	Geomorphi	ic Position (D2)
	Iron Deposits (B5)				Thin Muck Su	urface (C7)			_ ⊠ FAC-Neuti	ral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We	ell Data (D9)				
	Sparsely Vegetated 0	Concave S	Surface (B8)		Other (Explai	n in Remarks	s)			
Field Ob	servations:									
Surface V	Vater Present? Y	es 🗌	No 🛛 De	pth (inc	hes):					
Water Ta	ble Present? Y	es 🗌	No 🛛 De	pth (inc	hes):					
Saturation	n Present? Y				hes): <u>14</u>					
	capillary fringe)		_	' '	<i>'</i> —			Wetlan	d Hydrology Presen	t? Yes ☐ No ☒
Describe	Recorded Data (stream	m dalide i	monitoring we	II aeria	Inhotos prev	vious inspecti	ions) if av	vailable:	Tono Mans (Eyhihit 1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo		-	ii, aciia	ii priotos, prev	vious irispecti	ioris), ii av	raliable.	Topo Maps (Exhibit 1), WWW Map (Exhibit 2), Solis
	: Only one secondar	•		indicat	tor observed	d.				
	5, 5 . 230011ddi	,	, 51099							

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: <u>09/04/2019</u> Applicant/Owner: _ State: WI Sampling Point: 32 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): concave Slope (%): 0-2% Long: _ Lat: Datum: Soil Map Unit Name: Pella silt loam (Ph) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FACW** Prevalence Index = B/A = 1. Veronica peregrina **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FACW** 2. Juncus dudleyi <u>15</u> \boxtimes OBL 3. Rorripa palustris ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П **OBL** 4. Typha angustifolia 3 - Prevalence Index is ≤3.0¹ <u>10</u> **FACW** 5. Cyperus esculentus ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> OBL data in Remarks or on a separate sheet) 6. Amaranthus tuberculatus ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 OBL 7. Lythrum salicaria 5 OBL 8. Mimulus ringens 3 **FACU** ¹ Indicators of hydric soil and wetland hydrology must 9. Abutilon theophrasti Be present, unless disturbed or problematic. 2 **FACU**

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation has recently been herbicided but was still able to be identified. Atypical (farmed) wetland/fresh (wet) meadow.

102

0

= Total Cover

= Total Cover Hydrophytic

Vegetation Present?

10. Chenopodium album

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

rofile Des	scription: (Describe t	o the dep	oth needed to do	ocument the ind	cator or cor	nfirm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat			<u> </u>	
(inches)	Color (moist)	%	Color (mois	st) %	Type ¹	Loc ²	Texture	Remarks
-5	10YR 2/1	100					Silty clay loam	
-12	N 2.5/	80	2.5Y 5/4	5	C	PL M	Clay loam	
	5Y 4/1	10	2.5Y 6/2	5	C	PL M		
2-27	5Y 6/1	88	5YR 5/6	12	С	PL M	Sandy clay loam	with dolomite
	<u></u>							_ ·
			 				2	
	Concentration, D=Dep il Indicators:	letion, RM	/I=Reduced Matri	ix, MS=Masked S	and Grains		² Location: PL=Por	e Lining, M=Matrix lematic Hydric Soils³:
-	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	64)	☐ Coast Prairie	
	Histic Epipedon (A2)			☐ Sandy Red		- ',	☐ Dark Surface	
	Black Histic (A3)			Stripped M	. ,			ese Masses (F12)
	Hydrogen Sulfide (A4)	ı			cky Mineral (. ,		Dark Surface (TF12)
	Stratified Layers (A5)				yed Matrix (F	F2)	Other (Explai	n in Remarks)
	2 cm Muck (A10) Depleted Below Dark	. Cf	(844)	Depleted N		Fc\		
	Thick Dark Surface (A		(A11)		r k Surface (I)ark Surface	•	•	
	Sandy Mucky Mineral	,			ressions (F8			ophytic vegetation and ploopy must be present,
	5 cm Mucky Peat or P	` '				,	•	ped or problematic.
	Layer (if observed):						0555 4.15141.1	or problemate.
Type:	; <u> </u>						Hydric Soil Presen	t? Yes⊠ No □
Depth temarks:	h (inches):							
							1	
emarks:							'	
emarks: 'DROLC Wetland I	DGY		is required; chec	k all that apply)			Secondary Inc	dicators (minimum of two required)
emarks: 'DROLC Wetland I	DGY Hydrology Indicators		is required; check	k all that apply) ☐ Water-Staine	d Leaves (B	9)		dicators (minimum of two required) Soil Cracks (B6)
emarks: 'DROLC Wetland I	OGY Hydrology Indicators ary Indicators (minimu	m of one	is required; chec		,	9)	Surface	-
OROLO Wetland F	OGY Hydrology Indicators ary Indicators (minimu Surface Water (A1)	m of one	<u>] </u>	Water-Staine Aquatic Faur	a (B13)	,	Surface S	Soil Cracks (B6) Patterns (B10)
emarks: 'DROLC Wetland I	OGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2	m of one] _ _ 	Water-Staine Aquatic Faur True Aquatic	a (B13) Plants (B14))	Surface S Drainage Dry-Seas	Soil Cracks (B6) Patterns (B10) con Water Table (C2)
OROLO Wetland F	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one	<u>]</u> <u>]</u> <u>_</u>	Water-Staine Aquatic Faur True Aquatic Hydrogen Su	a (B13) Plants (B14) Ifide Odor (C) (21)	Surface S Drainage Dry-Seas Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
OROLO Wetland F	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (E	m of one]]] _ 	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	a (B13) Plants (B14) Ifide Odor (C zospheres or) C1) n Living Ro	Surface S Drainage Dry-Seas Crayfish ots (C3) Surface S Crayfish Saturation	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9)
Prima	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	2) 32)]]] _ _ 	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	a (B13) Plants (B14) Ifide Odor (C zospheres or Reduced Iror) C1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1)
Prima	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B-	2) 32)]]]]] _ _ _	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F	Plants (B14) Ifide Odor (Construction of the Construction of the C) C1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2)
Prima	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5)	m of one 2) 32) 4)]]]]]]]	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F	Plants (B14) Ifide Odor (Construction Construction Construction in Construction Con) C1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Prima Prima D D D D D D D D D D D D D D D D D D D	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on	2) 32) 4) Aerial Ima		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We	Plants (B14) Ifide Odor (Considerate of the Considerate of the Conside) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2)
Prima Prima D D D D D D D D D D D D D D D D D D D	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (A2)	2) 32) 4) Aerial Ima		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F	Plants (B14) Ifide Odor (Considerate of the Considerate of the Conside) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2)
Prima	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations:	2) 32) Aerial Ima		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain	Plants (B14) Ifide Odor (Considerate of the Considerate of the Conside) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2)
Prima	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present?	m of one 2) 32) 4) Aerial Ima Concave S		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck So Gauge or We Other (Explain	Plants (B14) Ifide Odor (Considerate of the Considerate of the Conside) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2)
Prima Prima Field Obs Surface W	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Y	am of one 2) 32) 4) Aerial Ima Concave S (es □	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain	Plants (B14) Ifide Odor (Control of Control) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish Stunted of Geomory FAC-Net	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Utral Test (D5)
Prima Prima Prima Field Obs Surface W Water Tab	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Y	am of one 2) 32) 4) Aerial Ima Concave S (es □	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck So Gauge or We Other (Explain	Plants (B14) Ifide Odor (Control of Control) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Stunted of (C6) Geomory	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Utral Test (D5)
Prima Prima Surface W Water Tab Saturation (includes of	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Corvations: Vater Present? Present? Present? Yer Present? Yer Present? Yer Present?	m of one 2) 32) 4) Aerial Ima Concave S (es □ (es ⊠ (es ⊠	agery (B7) _ C Surface (B8) _ C No □ Depth No □ Depth No □ Depth	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain (inches): (inches): 26	la (B13) Plants (B14) Ifide Odor (Control of Control Reduced Iron Reduction in Planta (C7) In in Remark Planta (D9) In in Remark) C1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish Stunted of Stunted of Geomore FAC-Neu Wetland Hydrology Prese	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Sutral Test (D5)
Prima Prima Prima Field Obs Surface W Water Tab Saturation (includes of	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Corvations: Vater Present? Present? Present? Yer Present? Yer Present? Yer Present?	2) 32) 4) Aerial Imaconcave Ses (es (es (es (es (es (es (es (agery (B7) _ C Surface (B8) _ C No Depth No Depth No Depth No Depth	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain (inches): (inches): 26 (inches): 0 (at si	Plants (B14) Plants (B14) Iffide Odor (Control of Control of Contr) C1) n Living Roon (C4) Tilled Soils s)	Surface S Drainage Dry-Sease Crayfish Stunted of Stunted of Geomore FAC-Neu Wetland Hydrology Prese	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Utral Test (D5)
Prima	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Corvations: Vater Present? Ple Present? Present. Pres	Aerial Ima Concave S Yes m gauge, F Exhibit 4), indicated	In agery (B7) Surface (B8) No Depth No Depth No Depth No Depth Monitoring well, a and Image review and Image review that 5 out of 8	Water-Staine Aquatic Faur Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain In (inches): 26 In (inches): 0 (at si Daerial photos, prew Area C (Exhibits 663%) images	Plants (B14) Ifide Odor (Control of Control) C1) n Living Ro n (C4) Tilled Soils s) tions), if avaid 14). I antecede	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of Geomore FAC-Neu Wetland Hydrology Prese	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Sutral Test (D5)
Prima	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? P	Aerial Ima Concave S Yes m gauge, F Exhibit 4), indicated	In agery (B7) Surface (B8) No Depth No Depth No Depth No Depth Monitoring well, a and Image review and Image review that 5 out of 8	Water-Staine Aquatic Faur Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explain In (inches): 26 In (inches): 0 (at si Daerial photos, prew Area C (Exhibits 663%) images	Plants (B14) Ifide Odor (Control of Control) C1) n Living Ro n (C4) Tilled Soils s) tions), if avaid 14). I antecede	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturation Stunted of Geomore FAC-Neu Wetland Hydrology Prese	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (C9) Or Stressed Plants (D1) Shic Position (D2) Sutral Test (D5) Pent? Yes No

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 33 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): <u>0-2%</u> Long: _ Datum: Soil Map Unit Name: Pella silt loam (Ph) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 50% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 12 **FAC** Prevalence Index = B/A = 1. Panicum capillare <u>FACU</u> **Hydrophytic Vegetation Indicators:** \boxtimes <u>10</u> 2. Chenopodium album 5 **FACU** 3. Erigeron canadense ☐ 1 - Rapid Test for Hydrophytic Vegetation 2 ☐ 2 - Dominance Test is >50% П OBL 4. Rorripa palustris ☐ 3 - Prevalence Index is ≤3.01 П 5. ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) The sample site area had been recently plowed and herbicided, but the vegetation was able to be identified. Agricultural field.

29

0

= Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2.

No 🛛

OIL									g Point: <u>33</u>
Profile Des	scription: (Describe	to the dep	oth needed to doc	ument the ind	licator or cor	nfirm the a	absence o	f indicators.)	
Depth	Matrix		· -	Redox Fea	tures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Texture	Remarks
0-6	10YR 3/1	100					Loam		
6-9	10YR 3/1	98	7.5YR 3/3		С	PL M	Loam		
9-13	10YR 2/1	100	-		· 	-	Loam		
13-26	5Y 5/1	75	10YR 5/6	25		PL M	Clay loa	am	with dolomite and gravel
10 20	010/1		10111 0/0			1 = 101	Oldy loc		with dolornic and graver
		-	· -			-			
	-				· 		_		-
¹Type: C=	Concentration, D=Dep	letion RM	1=Reduced Matrix	MS=Masked S	Sand Grains		2	_ocation: PL=Pore	Lining M=Matrix
	il Indicators:	notion, rav	T Troduced Waterx,	We Waskea C	dia Grains				ematic Hydric Soils³:
_	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	S4)		☐ Coast Prairie F	
	Histic Epipedon (A2)		_	Sandy Red		,	_	Dark Surface (
	Black Histic (A3)			Stripped M	, ,			☐ Iron-Manganes	
	Hydrogen Sulfide (A4))	_		icky Mineral (,	_		Dark Surface (TF12)
	Stratified Layers (A5)		_		eyed Matrix (F	F2)	_	Other (Explain	in Remarks)
	2 cm Muck (A10)			Depleted N		_,			
	Depleted Below Dark	•	A11) 		rk Surface (F	•			
	Thick Dark Surface (A Sandy Mucky Mineral				Dark Surface pressions (F8		3		phytic vegetation and
			_		pressions (i c))		•	ogy must be present,
	5 cm Mucky Peat or Pe Layer (if observed):							Uniess disturbe	ed or problematic.
Type		•					ш	dric Soil Present?	? Yes □ No ⊠
	h (inches):						Пу	unc son Fresent	res No 🖂
	No hydric soil indica	tors obse	erved						
HYDROLO	OGY								
Wetland	Hydrology Indicators	S :							
Prim	ary Indicators (minimu	ım of one	is required: check	all that apply)				Secondary India	cators (minimum of two required)
	•				(5)	0)		_	
<u>-</u>	Surface Water (A1)		<u> </u>	-	ed Leaves (B	9)			oil Cracks (B6)
<u> </u>	High Water Table (A2	2)		_ Aquatic Faur					Patterns (B10)
	Saturation (A3)			_ True Aquatio	Plants (B14))		Dry-Seaso	on Water Table (C2)
	Water marks (B1)			_ Hydrogen Sเ	ulfide Odor (C	21)		Crayfish B	surrows (C8)
	Sediment Deposits (F	32)		Oxidized Rhi	izospheres or	n Living Ro	oots (C3)	Saturation	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	n (C4)		☐ Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)		Recent Iron	Reduction in	Tilled Soils	s (C6)	Geomorph	nic Position (D2)
	Iron Deposits (B5)	,		- Thin Muck S			()		ral Test (D5)
	Inundation Visible on	Δerial Im	-	Gauge or We	` '				
			<u> </u>	_	in in Remark	۵)			
Field Obs	Sparsely Vegetated (servations:	Jonicave 3	surface (Bo) \Box	Other (Expla	III III Kelliaik	5)			
		′00 □	No ⊠ Donth (i	nohoo):					
			No 🛛 Depth (i	-	=				
		_		nches): <u>24.5</u>					
		′es ⊠	No 🗌 Depth (i	nches): <u>13</u>			Wetland	Hydrology Preser	nt? Yes ☐ No ⊠
(includes	capillary fringe)								
	•		•	rial photos, pre	vious inspect	tions), if av	/ailable: To	opo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
- ' '	ibit 3), and Aerial phot								
Remarks:	No wetland hydrol	ogy indic	ators observed.						

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: <u>09/04/2019</u> Applicant/Owner: _ State: WI Sampling Point: 34 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Long: _ Slope (%): <u>0-2%</u> Datum: Soil Map Unit Name: Pella silt loam (Ph) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 67% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** <u>15</u> \boxtimes **FACU** 2. Thlaspi arvense <u>15</u> \boxtimes **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П **FACU** 4. Erigeron canadense 3 - Prevalence Index is ≤3.0¹ <u>12</u> **OBL** 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting 10 **FACU** data in Remarks or on a separate sheet) 6. Cirsium vulgare ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 UPL 7. Daucus carota 5 **FACW** 8. Juncus dudleyi ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____

Remarks: (Include photo numbers here or on a separate sheet.) The sample site area was recently herbicided, but the vegetation as still able to be identified. Agricultural field.

99

0

= Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

2.

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

OIL								g Point: 34
Profile De	scription: (Describe	to the dep	oth needed to docur	nent the ind	icator or cor	firm the a	absence of indicators.)	
Depth	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks
0-5	2.5Y 3/1	95	10YR 5/6	5		PL M	Loam	·
5-11	2.5Y 2.5/1	95	7.5YR 3/4	- 5		PL M	Loam	
11-28	10YR 6/2	85	10YR 5/4	15		PL M		
11-20	101110/2		101K 5/4			PL IVI	Loamy sand	
		• •	·					
							. .	
	-					-	<u>-</u>	
1T C-	Consentation D-Don	Jatian DA	4—Daduard Matrix M	C-Maakad C	and Oneine		21 anations DI - David	Limin at NA-NA-NA-Niv
	Concentration, D=Dep	netion, Riv	i=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore	ematic Hydric Soils ³ :
,	Histosol (A1)		П	Sandy Gle	yed Matrix (S	4)	Coast Prairie	
	Histic Epipedon (A2)		<u>-</u>	Sandy Red		-,	Dark Surface (
	Black Histic (A3)			Stripped M	latrix (S6)		☐ Iron-Mangane	se Masses (F12)
	Hydrogen Sulfide (A4)		_	cky Mineral (Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	2)	Other (Explain	in Remarks)
	2 cm Muck (A10)			Depleted N	` '			
	Depleted Below Dark		(A11) 🔻		rk Surface (F Dark Surface			
	Thick Dark Surface (A Sandy Mucky Mineral				oressions (F8		-	ophytic vegetation and
	5 cm Mucky Peat or F	` '		_ redux Dep	0163310113 (1.0	,	-	logy must be present, ed or problematic.
	e Layer (if observed)						Offices disturbe	ed of problematic.
Туре		•					Hydric Soil Present	? Yes⊠ No □
	th (inches):						Tryune con resent	163 🖂 140 🖂
Remarks:	<u> </u>						<u> </u>	
IYDROL	OGY							
Wetland	Hydrology Indicators	s:						
Prim	nary Indicators (minimu	ım of one	is required; check all	that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)			Water-Staine	ed Leaves (B	2)	☐ Surface S	oil Cracks (B6)
ᅡ	High Water Table (A)	2)		Aquatic Faun	•	<i>)</i>		Patterns (B10)
	-	۷)						·
	Saturation (A3)				Plants (B14)			on Water Table (C2)
<u>-</u>	Water marks (B1)	- 0)		-	ulfide Odor (C	•		Burrows (C8)
	Sediment Deposits (B2)			zospheres or	•	` ' —	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Reduced Iror			r Stressed Plants (D1)
	Algal Mat or Crust (B	34)		Recent Iron F	Reduction in	Tilled Soils	Geomorph	nic Position (D2)
	Iron Deposits (B5)			Thin Muck Si	urface (C7)		FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated	Concave S	Surface (B8)	Other (Explai	in in Remarks	s)		
Field Ob	servations:							
Surface V	Vater Present?	′es 🗌	No 🛛 Depth (inc	hes):				
Water Ta	ble Present?	′es ⊠	No Depth (inc	hes): <u>23.5</u>				
Saturation	n Present?	′es ⊠	No Depth (inc	hes): <u>19</u>			Watland Hudralani Duasa	-42 Vaa 🗆 Na 💆
(includes	capillary fringe)						Wetland Hydrology Preser	nt? Yes ☐ No ☒
Describe	Recorded Data (stream	m gauge.	monitoring well. aeria	l photos, pre	vious inspect	ions). if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial phot			, ,,		,,	1 1 (, , , , , , , , , , , , , , , , , , , ,
	: Only one seconda	-	15	or observed	d.			

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 35 Applicant/Owner: _ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Ogden muck (Oc) NWI classification: E2Ka Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>45</u> **FACW** Prevalence Index = B/A = 1. Phalaris arundinacea **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FACW** 2. Agrostis gigantea <u>15</u> \boxtimes **FACW** 3. Solidago gigantea ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 12 П OBL 4. Symphyotrichum puniceum 3 - Prevalence Index is ≤3.0¹ <u>10</u> **FACW** 5. Cyperus esculentus ☐ 4 - Morphological Adaptations¹ (Provide supporting 10 **FACW** data in Remarks or on a separate sheet) 6. Juncus dudleyi ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 10 **FACU** 7. Solidago altissima 5

<u>5</u>

5

137

0

= Total Cover

= Total Cover

FACW

OBL

FAC

Hydrophytic

Vegetation Present?

8. Equisetum hyemale

9. Lobelia siphilitica

2.

10. Panicum capillare

Woody Vine Stratum (Plot size: 30' radius)

Remarks: (Include photo numbers here or on a separate sheet.) Fresh (wet) meadow.

No 🗌

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Profile De	scription: (Describe	to the der	oth needed to	o docur	nent the indic	cator or cor	nfirm the	absence of		g Point: <u>35</u>
	Matrix	·			Redox Featu				<u> </u>	
Depth (inches)	Color (moist)	%	Color (n	noist)	%	Type ¹	Loc ²		Texture	Remarks
0-13	10YR 2/1	100		10101)				Silt loam		romano
13-19	10YR 5/2	90	10YR 4/6		5		PL M	Clay loa		
10 10	10YR 2/1	5	101111110					Olay loa	····	
19-28	10YR 5/2	70	7.5YR 5/6		30		PL M	Loamy s	and	
10 20	10111 0/2		1.0111070						- Alla	
								_		
					_					
	Concentration, D=Dep	letion, RN	1=Reduced M	latrix, M	S=Masked Sa	and Grains			ocation: PL=Pore	J,
,	il Indicators:				Carado Clave	Martini (O	\$4\			matic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)			<u> </u>	Sandy Gley Sandy Redo		o4)	-	☐ Coast Prairie F☐ Dark Surface (
ᅡ	Black Histic (A3)			_ 	Stripped Ma	• •			Iron-Manganes	•
	Hydrogen Sulfide (A4))		Ī	Loamy Muc	, ,	F1)			Dark Surface (TF12)
	Stratified Layers (A5)	•			Loamy Gley			ī	Other (Explain	
	2 cm Muck (A10)				Depleted M	atrix (F3)				
	Depleted Below Dark	•	A11)			Surface (F6	,			
	Thick Dark Surface (ark Surface		³ l		phytic vegetation and
블	Sandy Mucky Mineral	` '			Redox Depi	ressions (F8	3)		•	ogy must be present,
Postrictiv	5 cm Mucky Peat or P e Layer (if observed):								Unless disturbe	ed or problematic.
Type		•						Нуи	dric Soil Present?	Yes⊠ No □
	th (inches):							Пу	unc 3011 Fresent:	ies 🖂 No 🖂
IYDROL										
	Hydrology Indicators				4141				0 1 1 1 -	
Prim	nary Indicators (minimu	ım of one	is required; ci	neck all	that apply)				Secondary India	cators (minimum of two required)
	Surface Water (A1)				Water-Stained	-	9)			oil Cracks (B6)
	High Water Table (A	2)			Aquatic Fauna	` ,				Patterns (B10)
	Saturation (A3)				True Aquatic I	Plants (B14))		Dry-Seaso	n Water Table (C2)
	Water marks (B1)				Hydrogen Sul	fide Odor (C	:1)			Burrows (C8)
	Sediment Deposits (I	B2)			Oxidized Rhiz	ospheres or	n Living Ro	oots (C3)	Saturation	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of R	Reduced Iron	n (C4)		Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)			Recent Iron R	eduction in	Tilled Soils	s (C6)	Geomorph	ic Position (D2)
	Iron Deposits (B5)				Thin Muck Su	rface (C7)				ral Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)		Gauge or Wel	ll Data (D9)				
	Sparsely Vegetated (Concave S	Surface (B8)		Other (Explair	n in Remarks	s)			
Field Ob	servations:				, ,		,			
Surface \	Vater Present? Y	′es 🗌	No 🛛 De	epth (inc	hes):					
Water Ta	ble Present? Y	′es ⊠	No 🗌 De	epth (inc	hes): <u>25</u>					
Saturatio	n Present? Y	′es ⊠			hes): <u>0 (at su</u>	rface)				
(includes	capillary fringe)				,			Wetland I	Hydrology Presen	it? Yes⊠ No □
Describe	Recorded Data (stream	m gauge,	monitoring we	ell, aeria	l photos, prev	ious inspect	ions), if av	ı ∕ailable: To	po Maps (Exhibit 1	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial phot		_			·				· ,
	•		•		area, it is ve	ery close to	the edge	e of an ag	ricultural field ser	rved by drain tiles. Therefore,
geomor	phic position (D2) ha	s not be	en checked.							

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 36 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Long: _ Slope (%): 0-2% Datum: Lat: Soil Map Unit Name: Ogden muck (Oc) NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>40</u> **FACW** Prevalence Index = B/A = 1. Echinochloa crus-galli **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FAC** 2. Panicum capillare 20 \boxtimes **FACW** 3. Persicaria lapathifolia ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> П OBL 4. Rorripa palustris 3 - Prevalence Index is ≤3.0¹ П <u>15</u> **FACW** 5. Veronica peregrina ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) The sample site was mostly herbicided, but the vegetation could still be identified. Atypical (farmed) wetland.

110

0

= Total Cover

= Total Cover Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

Profile De	scription: (Describe t	o the der	oth needed to	docun	nent the indi	cator or cor	ofirm the	ahsanca (Point: <u>36</u>
	Matrix	o the dep	on needed to	docum	Redox Featu		IIIIIII LIIC	absence (or indicators.)	
Depth (inches)	Color (moist)	%	Color (m	oiot)	%	Type ¹	Loc ²		Texture	Remarks
0-6	10YR 2/1	92	10YR 5/1	OISt)	5	D	M	Clay lo		Remarks
0-0	1011(2/1	92	10YR 5/4		3	C	PL M	Clay lo	aiii	
6-11	5Y 4/1	80	101R 3/4 10YR 4/6		15		PL M	Clay lo		
0-11	10YR 2/1	5	10114/0				FL IVI	Clay lo	aiii	
11-28	10TK 2/1 10GY 6/1	80	10YR 4/6		20		DI M	Clay lo		
11-20	1001 0/1	- 60	10114/0				PL M	Clay lo	aiii	
	<u> </u>		-							
¹Type: C=	Concentration, D=Dep	letion, RM	1=Reduced M	atrix, M	S=Masked Sa	and Grains		2	Location: PL=Pore I	Lining, M=Matrix
	il Indicators:							In		matic Hydric Soils³:
	Histosol (A1)				Sandy Gley		64)	_	Coast Prairie R	
	Histic Epipedon (A2)			ᆜ	_Sandy Redo	. ,		=	Dark Surface (S	
	Black Histic (A3) Hydrogen Sulfide (A4)			+	Stripped Ma Loamy Muc	. ,	E1)	-	Iron-Manganes	e Masses (F12) ark Surface (TF12)
	Stratified Layers (A5)	,			_	•	•	-	Other (Explain	
	2 cm Muck (A10)				Depleted M	-	(1 -)	-	Other (Explain)	in remains)
	Depleted Below Dark	Surface	(A11)	\boxtimes	-		F6)			
	Thick Dark Surface (A	,			•	ark Surface	. ,		³ Indicators of Hydror	ohytic vegetation and
	Sandy Mucky Mineral	` '			_Redox Depi	ressions (F8	3)		• •	ogy must be present,
	5 cm Mucky Peat or P								Unless disturbed	d or problematic.
	e Layer (if observed):									
Type	e: th (inches):							Hy	ydric Soil Present?	Yes⊠ No □
Remarks:	iii (iiiciics)									
r comanto.										
<u> </u>										
IYDROL	OGY									
Wetland	Hydrology Indicators	:								
Prim	nary Indicators (minimu	m of one	is required; ch	eck all	that apply)				Secondary Indic	ators (minimum of two required)
	Surface Water (A1)				Water-Stained	d Leaves (B	9)		☐ Surface So	il Cracks (B6)
	High Water Table (A2	2)			Aquatic Fauna	•	-,			atterns (B10)
	Saturation (A3)	-/			True Aquatic I		١			n Water Table (C2)
	Water marks (B1)				Hydrogen Sul					urrows (C8)
ᅡ	Sediment Deposits (E	22)			Oxidized Rhiz	`	,	note (C3)		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	52)			Presence of R		_	0013 (03)		Stressed Plants (D1)
		4)					` '	eile (CC)		, ,
	Algal Mat or Crust (B	4)			Recent Iron F		ii iiileu S	olis (Co)		c Position (D2)
	Iron Deposits (B5)		(57)		Thin Muck Su				FAC-Neutr	al Test (D5)
	Inundation Visible on		0 , (,		Gauge or Wel					
	Sparsely Vegetated (servations:	Concave S	Surface (B8)		Other (Explair	n in Remarks	s)			
			N - 57 D	- 41 C 1	l \					
		_		oth (inc	•					
		_			hes): <u>21</u>					
		es ⊠	No 🗌 De	oth (inc	hes): <u>0 (at su</u>	<u>rface)</u>		Wetland	Hydrology Present	t? Yes⊠ No □
,	capillary fringe)									
	•		-			•	,	/ailable: T	opo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils
	nibit 3), Aerial photos (E								-: 4-4 :	
	-			•	, -			ent preci	pitation showed si	gnatures of saturation (C9).
The Geo	omorphic Position (D	z) iridica	ioi does not	apply	uu e a uiaili	iiie system				

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 37 Applicant/Owner: _ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Long: _ Slope (%): 0-2% Lat: Datum: Soil Map Unit Name: Ogden muck (Oc) NWI classification: *None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. *Sample site is immediately outside the WWI-mapped wetland boundary. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 4 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 50% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FACU** Prevalence Index = B/A = 1. Thlaspi arvense **Hydrophytic Vegetation Indicators:** \boxtimes **FACW** <u>18</u> 2. Veronica peregrina <u>15</u> \boxtimes **FACU** 3. Cirsium arvense ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% <u>15</u> \boxtimes **FAC** 4. Echinochloa crus-galli ☐ 3 - Prevalence Index is ≤3.0¹ <u>12</u> <u>OBL</u> 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting 10 **FACU** data in Remarks or on a separate sheet) 6. Erigeron canadense ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 FAC 7. Panicum capillare

5

105

0

= Total Cover

= Total Cover

FACU

US Army Corps of Engineers

Woody Vine Stratum (Plot size: 30' radius)

Remarks: (Include photo numbers here or on a separate sheet.) Agricultural field.

8. Setaria faberi

10. ____

2. __

No 🖂

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🗌

Hydrophytic

Vegetation Present?

SOIL Sampling Point: <u>37</u>

Profile De	scription: (Describe t	o the dep	oth needed to docu	ıment the ind	licator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 2/1	100					Clay loam	
11-24	5GY 6/1	80	10YR 5/6	20	C	PL M	Clay loam	
	·						_	
	·						_	
							-	
						-	_	
¹ Type: C=	Concentration, D=Dep	letion, RM	1=Reduced Matrix, I	MS=Masked S	Sand Grains		² Location: PL=Pore	Lining, M=Matrix
	il Indicators:		-	7 0 1 01		.43		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)		<u></u>	Sandy Gle	eyed Matrix (S	54)	Coast Prairie I	
	Black Histic (A3)		<u>. г</u>	Stripped M	, ,		☐ Dark Surface (☐ Iron-Mangane	
	Hydrogen Sulfide (A4)		<u>- 1</u>		icky Mineral (I	F1)		Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F		Other (Explain	in Remarks)
	2 cm Muck (A10)			Depleted I	Matrix (F3)			
	Depleted Below Dark		(A11) [rk Surface (F6	,		
	Thick Dark Surface (A	,	L		Dark Surface		,	phytic vegetation and
	Sandy Mucky Mineral	` '	_ <u>L</u>	Redox De	pressions (F8)		ogy must be present,
	5 cm Mucky Peat or Poet of Poet 5 cm Mucky Peat or Poet 5 cm Mucky Peat 5 cm Mucky Peat 5 cm Mucky Peat 6 cm Mucky Peat 6 cm Mucky Peat 6 cm Mucky Peat 6 cm Mucky Peat 7 cm M						Uniess disturbe	ed or problematic.
	e Layer (ii observed). e:						Hydric Soil Present	? Yes⊠ No □
	th (inches):						Tryunc con i resent	
Remarks:								
IYDROL								
Wetland	Hydrology Indicators	:						
Prim	nary Indicators (minimu	m of one	is required; check a	ll that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)			Water-Staine	ed Leaves (B	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A2	?)		Aquatic Faur		,		Patterns (B10)
	Saturation (A3)	,	$\overline{\Box}$		Plants (B14)			on Water Table (C2)
	Water marks (B1)		<u> </u>		ulfide Odor (C			Burrows (C8)
	Sediment Deposits (E	32)	<u>-</u>		izospheres or	,		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	/	<u> </u>		Reduced Iron	_	` ' 	Stressed Plants (D1)
	Algal Mat or Crust (B4	1)	<u> </u>		Reduction in			nic Position (D2)
	Iron Deposits (B5)	*)	<u> </u>	Thin Muck S		Tillou Coll	· · · — ·	ral Test (D5)
	Inundation Visible on	Aorial Im		Gauge or We	` '		TAC-Neut	ar rest (D3)
				•	, ,	- \		
Field Ob	Sparsely Vegetated C servations:	oncave s	Surface (B8)	Other (Expla	in in Remarks	s)		
		es 🗌	No ⊠ Depth (ir	ches):				
			. ,	ches):	-			
	capillary fringe)	es 🛚	No Depth (ir	ches): <u>21</u>			Wetland Hydrology Preser	nt? Yes 🗌 No ⊠
,								
	Recorded Data (strean ibit 3), and Aerial photo		•	al photos, pre	evious inspect	ions), if av	/allable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	: No wetland hydrolo							
INCHIAINS	. 140 Welland Hydroic	gy muic	atora obacrycu.					

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 09/04/2019 Applicant/Owner: _ State: WI Sampling Point: 38 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Lat: Long: _ Datum: Soil Map Unit Name: Matherton silt loam (MmA) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **FACW Hydrophytic Vegetation Indicators:** <u> 25</u> \boxtimes 2. Veronica peregrina 20 OBL 3. Rorripa palustris ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> П **FACW** 4. Persicaria lapathifolia 3 - Prevalence Index is ≤3.0¹ П <u>10</u> **FACU** 5. Thlaspi arvense ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> OBL data in Remarks or on a separate sheet) 6. Amaranthus tuberculatus ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 3 FAC 7. Plantago rugelii 8. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Vegetation at the sample site had been herbicided but could still be identified. Agricultural field.

108

0

☐ = Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

OIL										g Point: <u>38</u>
Profile De	scription: (Describe t	to the dep	oth needed to	docun	nent the indi	cator or con	firm the	absence	e of indicators.)	
Depth	Matrix				Redox Featu					
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²		Texture	Remarks
0-6	2.5Y 2.5/1	100					-	Clay I	oam	
6-10	10YR 2/1	83	7.5YR 4/6		7	С	PL M	Clay I	oam	Plow layer
			5Y 5/1		10	D	М	_		
10-18	5GY 5/1	75	5YR 4/6		25	С	PL M	Clay I	oam	
18-27	5Y 5/1	80	10YR 4/4		20	С	PL M	Clay I	oam	
	-							_		
	Concentration, D=Dep	letion, RM	1=Reduced M	atrix, M	S=Masked Sa	and Grains			² Location: PL=Pore	
_	il Indicators:				0	l. M t	4)	ı		ematic Hydric Soils ³ :
	Histosol (A1) Histic Epipedon (A2)			井	Sandy Gley Sandy Red	red Matrix (S	4)		Coast Prairie I Dark Surface	
	Black Histic (A3)			+	Stripped Ma	, ,			☐ Iron-Mangane	• •
	Hydrogen Sulfide (A4))		一一		ky Mineral (I	F1)			Dark Surface (TF12)
	Stratified Layers (A5)			\boxtimes	Loamy Gle	yed Matrix ((F2)		Other (Explain	in Remarks)
	2 cm Muck (A10)				Depleted M					
	Depleted Below Dark		(A11)			k Surface (F	•			
	Thick Dark Surface (A	•			-	ark Surface				phytic vegetation and
	Sandy Mucky Mineral				_ Redox Depi	ressions (F8)		•	ogy must be present,
	5 cm Mucky Peat or P e Layer (if observed):	_ , ,							Unless disturbe	ed or problematic.
Туре		•							Hydric Soil Present	? Yes⊠ No □
• .	th (inches):							ľ	nyunc son riesent	i les 🖂 No 🖂
Remarks:								L.		
HYDROL	OGY									
Wetland	Hydrology Indicators	3 :								
Prim	nary Indicators (minimu	ım of one	is required; ch	eck all	that apply)				Secondary Indi	cators (minimum of two required)
	Surface Water (A1)				Water-Stained	d Leaves (B9	9)		☐ Surface S	oil Cracks (B6)
	High Water Table (A2	2)			Aquatic Fauna	,	- /			Patterns (B10)
	Saturation (A3)	-/			True Aquatic I					on Water Table (C2)
	Water marks (B1)				Hydrogen Sul					Surrows (C8)
	Sediment Deposits (E	22)			Oxidized Rhiz		•	oots (C3)		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	32)			Presence of F	•	•	oots (Co	· 	Stressed Plants (D1)
	. ,	4)					` '	c (CC)		
	Algal Mat or Crust (B	4)			Recent Iron R		Tilleu Soll	s (CO)		nic Position (D2)
<u>-</u>	Iron Deposits (B5)		(57)		Thin Muck Su	` '			FAC-Neut	tral Test (D5)
	Inundation Visible on		0, , ,		Gauge or Wel					
Field Ob	Sparsely Vegetated (servations:	Concave S	Surface (B8)		Other (Explair	n in Remarks	S)			
		·	N - 57 D	. 41. /! I	h \					
				oth (incl	•					
		_			hes): <u>25.5</u>					
		′es ⊠	No 🗌 De	oth (incl	hes): <u>18</u>			Wetlan	d Hydrology Preser	nt? Yes ☐ No ⊠
(includes	capillary fringe)									
	•		-	II, aeria	l photos, prev	ious inspect	ions), if av	vailable:	Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
- '	nibit 3), and Aerial phot	•		J L !	dame - b	, a al				
Remarks:	Only one secondar	ry indicat	or of wetland	ı nyarc	ology observ	ea.				

Applicant/Owner: State: WI Sampling Point: 39/Probe 3 nvestigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Long: Datum: NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? No					County Sampling Date: 09/04/2019
Section Committed Commi	Applicant/Owner:	3 Oity/Oddiity. Oil	y or waskego	Waukesha e	· · · · · · · · · · · · · · · · · · ·
Sloce 16% 0.2% Lat:	Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWR	PC Section	on, Township,	Range: NW	·
Soli Map Unit Name: Houghborn muck CHB) Solid Continue to the site spical for this time of year? Ves Solid Or Hydrology significantly disturbed? Ves Solid Or Hydrology significantly disturbed? Ves Solid Or Hydrology significantly disturbed? Ves Solid Or Hydrology Solid Or Hy	Landform (hillslope, terrace, etc.): toeslope		relief (concav	e, convex, n	
vec dimarkohydologic conditions on the site spitcal for this time of year? vec yeaglation Soil or Hydrology salidicardly disturbed? vec Veceptation Soil or Hydrology naturally problematic? (if. needed, explain any answers in Remarks.) No were Normal Circumstances' present? vec veceptation Soil or Hydrology naturally problematic? (if. needed, explain any answers in Remarks.) No were Normal Circumstances' present? vec veceptation		Long:			
ver vegetation	· · · · · · · · · · · · · · · · · · ·	time of year?	Yes ⊠ N	o □ (If n	
Name					
Hydrophytic Vegetation Present? Gyes No Item Sampled Area within a Wetland? Notice of Soils Present? Gyes No Notice of Hydrophytic Vegetation Present? Notice of	Are Vegetation, Soil, or Hydrology natu	rally problematic?			
Hydric Salts Prosent? Gyes			ons, transect	s, importan	t features, etc.
Hydric Salts Prosent? Gyes					
Wetland Hydrology Present?					⊠ Vos □No
Rematss: 90-day antecedent precipitation is normal. Probe site 3 was inspected north of sample site 30 to inform the wetland boundary in that area. Hydric soils and hydrolopylic vegetation were both present. Further, wetland hydrology was present (saturation at 8" and a water table at 20"). Given that all three wetland parameters were present. Probe 3 was determined to be in wetland. Committee Probe P			within a vic	tialia :	⊠ 163 ⊟NO
area, Hydric soils and hydrophytic vegetation were both present. Further, wetland hydrology was present (saturation at 8" and a water table at 20"). Given that all three wetland parameters were present, Probe 3 was determined to be in wetland. Teas Stratum (Plot size: 30 radius)			s inspected r	north of san	onle site 39 to inform the wetland boundary in that
Zero Given that all three wetland parameters were present, Probe 3 was determined to be in wetland. Zegeration Species Status Dominant Indicator Species Status Spe	• • • • • • • • • • • • • • • • • • • •		-		
	_ · · · · · · · · · · · · · · · · · · ·	•			· · · · · · · · · · · · · · · · · · ·
Absolute		1 , -			
	VEGETATION – Use scientific names of plants.				T
1.	<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)				Dominance Test worksheet:
2	1	70 OOVC1		Otatas	
Total Number of Dominant Species Across All Strata: 2 (B)					<u> </u>
Species Across All Strata: 2 (8)			_		
Sapling/Shrub Stratum (Plot size: 30' radius) Prevalence Index worksheet: Total % Cover of; Multiply by:					
Sapling/Shrub Stratum (Plot size: 30' radius) 1.	4				Species Across All Strata. 2 (B)
Sapiling/Shrub Stratum (Plot size: 30' radius) Prevalence Index worksheet: 1.	5				The state of the s
1		<u>0</u>	= Total Co	ver	That Are OBL, FACW, or FAC: 100% (A/B)
2	Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:
Column C	1				Total % Cover of: Multiply by:
3					OBL species x 1 =
4					
5 FACU species yet =				· 	
Particum (Plot size: 5' radius) 1. Panicum capillare 15					
Herb Stratum (Plot size: 5' radius) 1. Panicum capillare 15	5				
1. Panicum capillare 2. Rorripa palustris 3. Amaranthus tuberculatus 4. Persicaria lapthifolia 5. Plantago rugelii 6	Hart Otastana (Blataina Flandina)	<u>U</u>	- Total Co	ver	
2. Rorripa palustris 3. Amaranthus tuberculatus 4. Persicaria lapthifolia 5. Plantago rugelii 6	Herb Stratum (Plot size: 5' radius)		_		Column Totals: (A) (B)
3. Amaranthus tuberculatus 4. Persicaria lapthifolia 5. Plantago rugelli 6	1. Panicum capillare	<u>15</u>	\boxtimes	<u>FAC</u>	
4. Persicaria lapthifolia 3	2. Rorripa palustris	<u>10</u>	\boxtimes	<u>OBL</u>	Hydrophytic Vegetation Indicators:
4. Persicaria lapthifolia 5. Plantago rugelii 6	3. Amaranthus tuberculatus	<u>5</u>		<u>OBL</u>	☐ 1 - Rapid Test for Hydrophytic Vegetation
5. Plantago rugellii 3. □ FAC 6. □ □ □ □ □ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 7. □ □ □ □ □ □ □ □ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 8. □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	4 Persicaria lanthifolia	3		FACW	
4 - Molphilogical Adaptations (Provide Supporting data in Remarks or on a separate sheet) 5 - Problematic Hydrophytic Vegetation¹ (Explain) 5 - Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10					
7		<u>u</u>	_	1710	
8 9 1 Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10 36 = Total Cover Woody Vine Stratum (Plot size: 30' radius)			_		
9	7		Ц		3-1 Toblematic Hydrophytic Vegetation (Explain)
Be present, unless disturbed or problematic. 36	8				
10	9				
36 = Total Cover	10		П		Be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 30' radius) 1 2 Remarks: (Include photo numbers here or on a separate sheet.) Sample site was herbicided and plowed, but vegetation could still be identified.	10	36		ver	
1 2	Woody Vine Stratum (Plot size: 30' radius)	<u> </u>			1
2			П		
2 <u>0</u> = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Sample site was herbicided and plowed, but vegetation could still be identified.			<u> </u>		
Remarks: (Include photo numbers here or on a separate sheet.) Sample site was herbicided and plowed, but vegetation could still be identified.	2				
		_			
Atypical (farmed) wetland.		e sheet.) Sample si	te was herbi	cided and p	lowed, but vegetation could still be identified.
	Atypical (farmed) wetland.				

file De	scription: (Describe t	o the uep	otn needed	to documen	t the mai	cator or con	ifirm the a	bsence of	indicators.)		
epth	Matrix			Re	edox Feat			_			
nches)	Color (moist)	%	Color ((moist)	%	Type ¹	Loc ²		Texture	Remarks	
	10YR 2/1	100						Loam			
6	2.5Y 6/1	90	10YR 5/6		10	С	PL M	Loamy fi	ne sand		
								. '	_		
			,					-			
	Concentration, D=Dep	letion, RM	/I=Reduced I	Matrix, MS=N	Masked Sa	and Grains			ocation: PL=Pore		
	il Indicators: Histosol (A1)			П «	andy Glev	yed Matrix (S	:4)	Indi	cators for Proble Coast Prairie F	ematic Hydric Soils ³ :	
	Histic Epipedon (A2)				andy Red		14)		Dark Surface (
	Black Histic (A3)				tripped Ma					se Masses (F12)	
	Hydrogen Sulfide (A4)	ı		L	oamy Mud	cky Mineral (I	F1)	_[Very Shallow [Dark Surface (TF12)	
	Stratified Layers (A5)				-	yed Matrix (F	2)		Other (Explain	in Remarks)	
	2 cm Muck (A10)					fatrix (F3)					
	Depleted Below Dark Thick Dark Surface (A		(A11)			k Surface (F6 ark Surface	•				
	Sandy Mucky Mineral					ressions (F8		3	•	phytic vegetation and	
	5 cm Mucky Peat or P	` '		<u> </u>	.0 40% 2 0p		,		•	ogy must be present, ed or problematic.	
	Layer (if observed):								Offices dictarse	or problemate.	
Туре								Нус	dric Soil Present?	? Yes⊠ No □]
Dept	h (inches):										
marks:											
)ROL(DGY										
OROL(OGY Hydrology Indicators		is required: 0	check all that	t apply)				Secondary Indi	cators (minimum of two r	equired
OROL(OGY Hydrology Indicators ary Indicators (minimu		is required; o			d Leaves (RG	o)		_	cators (minimum of two re	equired
OROL(OGY Hydrology Indicators ary Indicators (minimu Surface Water (A1)	m of one	is required; o	Wat	ter-Staine	d Leaves (BS	9)		Surface So	oil Cracks (B6)	equired
Prim	OGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2	m of one	is required; o	Wat	ter-Staine	a (B13)	,		Surface So	pil Cracks (B6) Patterns (B10)	equired
OROL(DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one	is required; o	☐ Wat	ter-Staine latic Faun e Aquatic	a (B13) Plants (B14)	•		Surface So Drainage B Dry-Sease	poil Cracks (B6) Patterns (B10) on Water Table (C2)	equired
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Prim □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one (2)	is required; o	Usate Aque True Hyde Oxide Pres	ter-Stainer latic Faun e Aquatic Irogen Sul dized Rhiz sence of F	a (B13) Plants (B14) Ifide Odor (C zospheres or	1) n Living Roo n (C4)		Surface Solution Surface Solution	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) on Visible on Aerial Image Stressed Plants (D1)	
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Prim	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	m of one (2) 32) 4)		Uate Aque Aque Aque Aque Aque Aque Aque Aqu	ter-Stainer latic Faun le Aquatic lrogen Sul dized Rhiz sence of F sent Iron F	a (B13) Plants (B14) Ifide Odor (C zospheres or Reduced Iron Reduction in	1) n Living Roo n (C4)		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) on Visible on Aerial Image Stressed Plants (D1)	
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Prim	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corrections: Water Present?	m of one 2) 32) 4) Aerial Ima Concave S	agery (B7) Surface (B8) No ⊠ D	Water Aque Aque Aque Aque Aque Aque Aque Aque	ter-Stainer latic Faun le Aquatic lrogen Sui dized Rhiz sence of F cent Iron F la Muck Su lige or We ler (Explai	Plants (B14) Ifide Odor (C zospheres or Reduced Iron Reduction in urface (C7)	1) n Living Roo n (C4) Tilled Soils		Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) On Visible on Aerial Image Stressed Plants (D1) onic Position (D2)	
Prim Prim S C C C C C C C C C C C C C C C C C C	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Viole Present?	m of one 2) 32) 4) Aerial Ima Concave S	agery (B7) Surface (B8) No ⊠ D No □ D	Water Aque Aque Aque Aque Aque Aque Aque Aque	ter-Stained latic Faunter Aquatic Faunter Aquatic Irogen Suldized Rhizesence of Facent Iron Fan Muck Sulge or Weer (Explainer):	ra (B13) Plants (B14) Ifide Odor (C zospheres or Reduced Iron Reduction in furface (C7) Ill Data (D9) n in Remarks	1) n Living Roo n (C4) Tilled Soils	(C6)	Surface Solution Surface Solution Stunted or Geomorph SAC-Neutring SAC-Neutring SAC-Neutring Surface Solution Stunted or Solution SAC-Neutring SAC-Neutring SAC-Neutring SAC-Neutring Surface Solution Salution Saluti	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) In Visible on Aerial Image Stressed Plants (D1) Inic Position (D2) Iral Test (D5)	gery (C
Prim Prim S S S S S S S S S S S S S S S S S S S	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Viole Present?	m of one 2) 32) 4) Aerial Ima Concave S	agery (B7) Surface (B8) No ⊠ D No □ D	Water Aque Aque Aque Aque Aque Aque Aque Aque	ter-Stained latic Faunter Aquatic Faunter Aquatic Irogen Suldized Rhizesence of Facent Iron Fan Muck Sulge or Weer (Explainer):	ra (B13) Plants (B14) Ifide Odor (C zospheres or Reduced Iron Reduction in furface (C7) Ill Data (D9) n in Remarks	1) n Living Roo n (C4) Tilled Soils	(C6)	Surface Solution Surface Solution Surface Solution Stunted or Geomorph	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) In Visible on Aerial Image Stressed Plants (D1) Inic Position (D2) Iral Test (D5)	gery (C
Prim Prim D D D D D D D D D D D D D D D D D D D	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corrections: Vater Present? Present? The Present?	m of one 2) 32) 4) Aerial Ima Concave S es es ies ies	agery (B7) Surface (B8) No ⊠ D No □ D No □ D	War	ter-Stainer latic Faun e Aquatic lrogen Sul dized Rhiz sence of F cent Iron F n Muck Su uge or We er (Explai):): 23.5): 0 (at su	a (B13) Plants (B14) Ifide Odor (C zospheres or Reduced Iron Reduction in urface (C7) In In Remarks	1) n Living Roo n (C4) Tilled Soils	(C6) Wetland F	Surface So Drainage R Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Image Stressed Plants (D1) nic Position (D2) ral Test (D5) nt? Yes \(\) No	gery (C
Prim Prim Deld Obsurface Water Talaturation includes	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corrections: Vater Present? Present? The Present?	m of one 2) 32) 4) Aerial Ima Concave S es ies in gauge, i	agery (B7) Surface (B8) No	War Aqu Aqu Arru Arru Arru Arru Arru Arru	ter-Stainer latic Faun e Aquatic latic Faun e Aquatic latic Faun e Aquatic latic Faun dized Rhiz sence of F cent Iron F n Muck Su uge or We er (Explai):): 23.5): 0 (at su lotos, prev	Plants (B14) Plants (B14) Iffide Odor (C zospheres or Reduced Iron Reduction in urface (C7) ell Data (D9) n in Remarks urface)	1) n Living Roo n (C4) Tilled Soils	(C6) Wetland F	Surface So Drainage R Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) On Water Table (C2) urrows (C8) In Visible on Aerial Image Stressed Plants (D1) Inic Position (D2) Iral Test (D5)	gery (C
Prim Prim Date of the state of	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Present? The Present? T	m of one 2) 32) 4) Aerial Ima Concave S es fes fes fes m gauge, if Exhibit 4),	agery (B7) Surface (B8) No	War Aqu Aqu Arru Arru Arru Arru Arru Arru	ter-Stainer latic Faun e Aquatic lrogen Sui dized Rhiz sence of F cent Iron F n Muck Su uge or We er (Explai):): 23.5): 0 (at su lotos, prev C (Exhibits	ra (B13) Plants (B14) Iffide Odor (C zospheres or Reduced Iron Reduction in urface (C7) Iffice (C7) Iffine In Remarks urface) vious inspection in Section in Remarks urface)	1) n Living Roo n (C4) Tilled Soils s)	(C6) Wetland Failable: To	Surface Solution Surface Solution Staturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) pon Water Table (C2) urrows (C8) n Visible on Aerial Image Stressed Plants (D1) nic Position (D2) ral Test (D5) nt? Yes \(\) No	gery (C
Prim Prim Sample Barbara Barba	DGY Hydrology Indicators ary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? Present? The Present? T	m of one 2) 32) 4) Aerial Ima Concave S es res m gauge, I Exhibit 4), indicated	agery (B7) Surface (B8) No	Water Aque Aque Aque Aque Aque Aque Aque Aque	ter-Stainer latic Faun le Aquatic lrogen Sul dized Rhiz sence of F cent Iron F n Muck Sul lige or We ler (Explair l): l): l): lotos, prev C (Exhibits images v	Plants (B14) Ifide Odor (C zospheres or Reduced Iron Reduction in urface (C7) Ill Data (D9) n in Remarks urface) vious inspecti s 12, 13, and with normal	1) n Living Roo n (C4) Tilled Soils s) ions), if ava	(C6) Wetland Failable: To	Surface Solution Surface Solution Staturation Stunted or Geomorph FAC-Neut	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) n Visible on Aerial Image Stressed Plants (D1) nic Position (D2) ral Test (D5) nt? Yes No [gery (C

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: _ State: WI Sampling Point: 40 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Slope (%): 0-2% Lat: Long: _ Datum: Soil Map Unit Name: Ogden muck (Oc) NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species _ x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>45</u> **FAC** Prevalence Index = B/A = 1. Panicum capillare **Hydrophytic Vegetation Indicators:** <u>25</u> \boxtimes **OBL** 2. Rorripa palustris 10 **FACW** 3. Veronica peregrina ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 6 П OBL 4. Amaranthus tuberculatus 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FACU** 5. Erigeron canadense ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must

Remarks: (Include photo numbers here or on a separate sheet.) Sample site area had been herbicided, but vegetation could still be identified. Agricultural field.

91

0

☐ = Total Cover

= Total Cover

Woody Vine Stratum (Plot size: 30' radius)

10. ____

No 🗌

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

Vegetation Present?

OIL									· `	g Point: <u>40</u>	
Profile De	scription: (Describe t	o the dep	th needed	to docur	nent the indi	icator or con	firm the	absence	of indicators.)		
Depth	Matrix				Redox Feat						
(inches)	Color (moist)	%	Color ((moist)	%	Type ¹	Loc ²		Texture	Rer	marks
0-11	10YR 2/1	100			_			Loam			
11-24	10YR 2/1	60	2.5Y 6/2		30	D	М	Loam			
			10YR 4/6		10	С					
	·										
		-								-	
		-									
¹Type: C=	Concentration, D=Dep	letion, RM	1=Reduced	Matrix, M	S=Masked S	and Grains			² Location: PL=Pore	Lining, M=Matrix	
Hydric So	il Indicators:							I	ndicators for Proble		oils³:
	Histosol (A1)					yed Matrix (S	4)		Coast Prairie F		
	Histic Epipedon (A2)				Sandy Red	, ,			Dark Surface (,	
	Black Histic (A3)			井	Stripped M	, ,	-4)		Iron-Manganes		10)
	Hydrogen Sulfide (A4) Stratified Layers (A5)			+		cky Mineral (F yed Matrix (F	-		Other (Explain	Dark Surface (TF	12)
	2 cm Muck (A10)			+	Depleted N		۷)		Other (Explain	iii Neiliaiks)	
	Depleted Below Dark	Surface (A	\11)	一一	_	k Surface (F6)				
	Thick Dark Surface (A	•	,		<u> </u>	ark Surface (,		³ Indicators of Hydro	nhytic vegetation	and
	Sandy Mucky Mineral	(S1)			Redox Dep	ressions (F8))			ogy must be pres	
	5 cm Mucky Peat or P	eat (S3)			_					ed or problematic.	
Restrictiv	e Layer (if observed):										
Туре	· · · · · · · · · · · · · · · · · · ·							I	Hydric Soil Present?	Yes 🗌	No 🛛
Dept	th (inches):										
IYDROL(OGY Hydrology Indicators										
	nary Indicators (minimu		is required:	check all	that apply)				Secondary India	cators (minimum	of two required)
	•		•			d Lagyas (DO	`			•	
	Surface Water (A1)					d Leaves (B9)			oil Cracks (B6)	
블	High Water Table (A2	(.)			Aquatic Faun					Patterns (B10)	
	Saturation (A3)					Plants (B14)				n Water Table (C	;2)
<u> </u>	Water marks (B1)				-	Ifide Odor (C	-			urrows (C8)	
	Sediment Deposits (E	32)				zospheres on	_	oots (C3		Visible on Aerial	
	Drift Deposits (B3)				Presence of I	Reduced Iron	(C4)		Stunted or	Stressed Plants	(D1)
	Algal Mat or Crust (B	4)			Recent Iron F	Reduction in T	illed Soil	s (C6)	Geomorph	ic Position (D2)	
	Iron Deposits (B5)				Thin Muck Su	urface (C7)			_ ☑ FAC-Neut	ral Test (D5)	
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We	ell Data (D9)					
	Sparsely Vegetated C	Concave S	Surface (B8)		Other (Explai	in in Remarks)				
Field Ob	servations:										
Surface V	Vater Present? Y	es 🗌 🔝 l	No 🛛 🗆	epth (inc	hes):						
Water Ta	ble Present? Y	es 🗌 🔝 I	No 🛛 🗆	epth (inc	hes):						
Saturation	n Present? Y	es 🛚	No 🔲 🛭	epth (inc	hes): <u>17</u>			Wetlan	d Hydrology Presen	nt? Yes □	No ⊠
(includes	capillary fringe)							vvetiai	u riyurology r reser	it: Tes [NO 🖂
	Recorded Data (stream		_	vell, aeria	l photos, pre	vious inspection	ons), if a	vailable:	Topo Maps (Exhibit	1), WWI Map (Exl	hibit 2), Soils
- `	nibit 3), and Aerial photo : Only one secondar	•		v indicat	tor observed						
. to.manto	,	,	, 9	,,							

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: __ State: WI Sampling Point: 41 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Long: _ Slope (%): <u>0-2%</u> Lat: Datum: Soil Map Unit Name: Houghton muck (HtA) NWI classification: F0Kf Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 20 **OBL** Prevalence Index = B/A = 1. Rorripa palustris **Hydrophytic Vegetation Indicators:** \boxtimes **FAC** <u>10</u> 2. Panicum capillare 5 **FACW** 3. Cyperus esculentus ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 5 П **FACW** 4. Echinochloa crus-galli 3 - Prevalence Index is ≤3.0¹ 3 **OBL** 5. Amaranthus tuberculatus ☐ 4 - Morphological Adaptations¹ (Provide supporting 3 **FACW** 6. Juncus bufonius data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 2 OBL 7. Typha angustifolia 8. ____ ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Sample site area was recently herbicided and plowed, but vegetation could still be identified. Atypical (farmed) wetland.

<u>48</u>

0

= Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2.

No 🗌

SOIL Sampling Point: 41

Profile Des	scription: (Describe	to the dep	oth needed to docur	ment the indi	icator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix		· -	Redox Feat			<u></u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	N 2.5/	100					Muck	
10 11	N O E/	100					Muck	with metallic gold flecks (fertilizer
10-11	N 2.5/	100	2 EV E/6			DI M	Muck	residue??)
11-15	2.5Y 4/2	93	2.5Y 5/6	_ 5	C	PL M	Clay loam	
45.00			10Y 5/1		D	M	011	
15-26	5Y 5/1	85	10YR 5/6	15	C	PL M	Clay loam	with dolomite, gravel, and "glitter"
	<u> </u>							
¹Type: C=	Concentration, D=De	epletion RM	1=Reduced Matrix M	IS=Masked S	and Grains		² Location: PL=Pore	Lining M=Matrix
	il Indicators:							ematic Hydric Soils³:
	Histosol (A1)				yed Matrix (S	64)	Coast Prairie F	
	Histic Epipedon (A	2)	<u>_</u>	Sandy Red			Dark Surface (
	Black Histic (A3) Hydrogen Sulfide (A	4)	<u> </u>	Stripped M	latrix (S6) cky Mineral (/F4\		se Masses (F12) Dark Surface (TF12)
	Stratified Layers (A5	•	<u>-</u>		eyed Matrix (F	. ,	Other (Explain	, ,
	2 cm Muck (A10)	,	-	Depleted M		2)	Other (Explain	iii Neiliaiks)
	Depleted Below Da	rk Surface	(A11)		k Surface (F	6)		
	Thick Dark Surface (` _		ark Surface		³ Indicators of Hydro	phytic vegetation and
	Sandy Mucky Minera	al (S1)		Redox Dep	ressions (F8	3)		ogy must be present,
	5 cm Mucky Peat or						Unless disturbe	ed or problematic.
	e Layer (if observed	l):						
	:						Hydric Soil Present?	P Yes⊠ No □
Remarks:	h (inches):							
IVDBOL	acv.							
IYDROLO Wetland	JG f Hydrology Indicator	re·						
	ary Indicators (minim		is required: check all	that apply)			Secondary Indi	cators (minimum of two required)
	-		•		-l l /D/	0)	-	
	Surface Water (A1)			Water-Staine	,	9)		oil Cracks (B6)
	High Water Table (A	42)		Aquatic Faun	` '			Patterns (B10)
	Saturation (A3)			True Aquatic				on Water Table (C2)
블	Water marks (B1)	(50)		Hydrogen Su	,	,		Burrows (C8)
	Sediment Deposits	(B2)		Oxidized Rhiz		_	` ′ —	n Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of I				Stressed Plants (D1)
	Algal Mat or Crust (B4)		Recent Iron F		Tilled Soils		nic Position (D2)
	Iron Deposits (B5)			Thin Muck Su			_⊠ FAC-Neut	ral Test (D5)
	Inundation Visible o			Gauge or We	ell Data (D9)			
	Sparsely Vegetated	Concave S	Surface (B8)	Other (Explai	in in Remark	s)		
	servations:							
			No 🛛 Depth (inc					
			No Depth (inc	, 				
	n Present? capillary fringe)	Yes ⊠	No	ches): <u>0 (at si</u>	<u>urface)</u>		Wetland Hydrology Preser	nt? Yes⊠ No □
	•		-		•	,	railable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	ibit 3), Aerial photos		=			-		:
	I he ımage review) morphic Position (•	, -			ent precipitation showed s	ignatures of saturation (C9).
1116 960	morpine i osinoli (ا الالالاط	nor does not apply	uuc a uraili	aic systeill			

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 42 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Houghton muck (HtA) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 67% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>10</u> **FACU** Prevalence Index = B/A = 1. Abutilon theophrasti **Hydrophytic Vegetation Indicators:** 8 \boxtimes **FAC** 2. Panicum capillare <u>7</u> \boxtimes OBL 3. Rorripa palustris ☐ 1 - Rapid Test for Hydrophytic Vegetation **FACU** □ 2 - Dominance Test is >50% 5 П 4. Erigeron canadense 3 - Prevalence Index is ≤3.0¹ 3 П **FAC** 5. Plantago rugelii ☐ 4 - Morphological Adaptations¹ (Provide supporting П 6. ____ data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____

= Total Cover

33

0

= Total Cover

Remarks: (Include photo numbers here or on a separate sheet.) Agricultural field.

Hydrophytic

Vegetation Present?

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

No \square

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2. ___

OIL									•	g Point: <u>42</u>
Profile De	scription: (Describe t	o the dep	oth needed to	docum	ent the indi	icator or con	firm the	absence	e of indicators.)	
Depth	Matrix				Redox Feat	tures				
(inches)	Color (moist)	%	Color (mo	ist)	%	Type ¹	Loc ²		Texture	Remarks
0-11	N 2.5/	100						Loan)	-
11-25	2.5Y 5/2	85	10YR 5/6		10		PL M	Clay		with dolomite
11-23	2.31 3/2		· 		· ——	D	1 L IVI	Clay	Ioaiii	With dolornite
	-		N 5/		5			_		
					· ——					
			·					_		
1T C-	Canadatian D-Dan	lation DN	1—Dadwaad Mat	uis NAC	N-Maskad C	and Oneine			21ti DI	Lining NA-NA-NA-Niv
_ , .	Concentration, D=Dep	ietion, Riv	i=Reduced Mat	ITIX, IVIS	s=iviasked S	and Grains			² Location: PL=Pore	ematic Hydric Soils ³ :
	Histosol (A1)			П	Sandy Gle	yed Matrix (S	4)		Coast Prairie	
	Histic Epipedon (A2)			一	Sandy Red		,		Dark Surface (
	Black Histic (A3)				Stripped M	latrix (S6)			Iron-Mangane	se Masses (F12)
	Hydrogen Sulfide (A4)					cky Mineral (F	-			Dark Surface (TF12)
	Stratified Layers (A5)				_	eyed Matrix (F	2)		Other (Explain	in Remarks)
	2 cm Muck (A10)			<u></u>	_Depleted N					
	Depleted Below Dark Thick Dark Surface (A		(A11)	井	_	·k Surface (F6 Dark Surface (,			
	Sandy Mucky Mineral			님		oressions (F8)				phytic vegetation and
	5 cm Mucky Peat or P				_ redox Dep		,			ogy must be present, ed or problematic.
	e Layer (if observed):								Offiess disturbe	ed of problematic.
Туре									Hydric Soil Present?	? Yes⊠ No □
• .	th (inches):								riyane don't resent	
Remarks:	, , <u>, , , , , , , , , , , , , , , , , </u>									
HYDROL	OGY									
Wetland	Hydrology Indicators	:								
Prim	nary Indicators (minimu	m of one	is required; che	ck all t	hat apply)				Secondary Indi	cators (minimum of two required)
	Surface Water (A1)		•		Notor Stains	ed Leaves (B9	1)		Curfoss S	oil Cracks (B6)
	` ,)	_				")			` '
	High Water Table (A2	<u>(2)</u>	_		Aquatic Faur					Patterns (B10)
	Saturation (A3)		_			Plants (B14)				on Water Table (C2)
<u> </u>	Water marks (B1)		_			ılfide Odor (C	•		 ·	Surrows (C8)
	Sediment Deposits (E	32)	<u>-</u>		Oxidized Rhi	zospheres on	Living Ro	oots (C3) <u> </u>	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)		_	<u> </u>	Presence of	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)	_	□ F	Recent Iron F	Reduction in 1	Filled Soils	s (C6)	Geomorph	nic Position (D2)
	Iron Deposits (B5)		_	<u> </u>	Thin Muck Si	urface (C7)			FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We	ell Data (D9)				
	Sparsely Vegetated C	Concave S	Surface (B8)		Other (Explai	in in Remarks	s)			
Field Ob	servations:		, ,				,			
Surface V	Vater Present? Y	es 🗌	No 🛛 Dept	th (inch	nes):					
Water Ta	ble Present? Y				nes): <u>24.5</u>					
					nes): <u>14</u>					
	capillary fringe)			(.55). <u></u>			Wetlar	nd Hydrology Preser	nt? Yes ☐ No ⊠
,			manitaring wall	aarial	nhataa nra	viava inanaati	ana) if a	رماطماني	Tona Mana (Eyhibit	1) MANIMon (Exhibit 2) Coile
	nibit 3), and Aerial photo	-	_	, aenai	priotos, pre	vious irispecti	ons), ii av	/allable.	Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
- ' '	: No wetland hydrolo			d						
i vernans.	. 140 Welland Hydroic	Jay III luic	a.o.o obsci /c	u.						

City/County: Cit	ty of Muskego/	/Waukesha C	State: WI Sampling Date: 09/04/2019 State: WI Sampling Point: 43/Probe 4
Section	on Township	Range: NW	
ong:			Datum:
a of waar?	Vac 🖾 N	o □ (If no	NWI classification: None
-			
	•		·
			⊠ Yes □No
	within a vve	tialiu:	⊠ les □NU
	l s inspected r	northeast of	sample site 43 to inform the wetland boundary in
	-		ology was present (saturation at 11" and water
		-	
Absolute	Dominant	Indicator	
% Cover	·	Status	Dominance Test worksheet:
			Number of Dominant Species
	Ц		That are OBL, FACW, or FAC: 2 (A)
			Total Number of Dominant
			Species Across All Strata: <u>2</u> (B)
			Percent of Dominant Species
<u>0</u>	= Total Cov	ver	That Are OBL, FACW, or FAC: 100% (A/B)
			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
			OBL species x 1 =
			FACW species x 2 =
	П		FAC species x 3 =
	П		FACU species x 4 =
<u>0</u>	= Total Cov	ver	UPL species x 5 =
			Column Totals: (A) (B)
35	\boxtimes	FACW	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
	_		_
	_		☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50%
<u>10</u>	_	OBL	☐ 3 - Prevalence Index is ≤3.0¹
	_		4 - Morphological Adaptations¹ (Provide supporting
	Ц		data in Remarks or on a separate sheet)
			5 - Problematic Hydrophytic Vegetation¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
	П		Be present, unless disturbed or problematic.
<u>90</u>		ver	
			Hydrophytic
			Vegetation
	П		Present? Yes ⊠ No □
	<u> </u>		
<u>0</u>	= Total Cov	ver	
	Secti Local ong: e of year? ntly disturbed? problematic? ling point locati de present, problematic de present, problemat	Section, Township, Local relief (concavong:	e of year? Are "Normal Circumstance problematic? (If, needed, explain any a string point locations, transects, important ling point locations, transects, important within a Wetland? Frobe site 4 was inspected northeast of the both present. Further, wetland hydroge present, probe 4 was determined to be present, probe 5 years. Absolute Dominant Indicator years. Status Absolute Jean Years. Status Ab

offie Des	scription: (Describe t		Jul needed to d		cator or co	illillilli tille a	bsence of indicators.)	
Depth	Matrix			Redox Feat			_	
nches)	Color (moist)	%	Color (moi	st) %	Type ¹	Loc ²	Texture	Remarks
8	2.5Y 2.5/1	100					Silty clay loam	
13	2.5Y 2.5/1	95	10YR 4/6	5	C	PL M	Clay loam	
-18	2.5Y 5/1	90	10YR 4/6	10	C	PL M	Clay loam	
-25	5GY 5/1	65	10YR 4/6	30	C	PL M	Clay loam	with dolomite
			2.5Y 7/8	5	C	PL M		
	Community D-Don	lation DA	4-Dadwaad Mak	wise MC-Marakard C			21 tion - D1 - D-	a Limina Manhartais
	Concentration, D=Dep il Indicators:	letion, Riv	/i=Reduced Maii	rix, MS-Masked S	and Grains			e Lining, M=Matrix lematic Hydric Soils³:
	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	S4)		Redox (A16)
	Histic Epipedon (A2)			Sandy Red	. ,		☐ Dark Surface	, ,
	Black Histic (A3)			Stripped M	, ,			ese Masses (F12)
	Hydrogen Sulfide (A4))			cky Mineral (Dark Surface (TF12)
	Stratified Layers (A5) 2 cm Muck (A10)			Loamy Gle Depleted N	yed Matrix (l	F2)	Other (Expla	in in Remarks)
	Depleted Below Dark	Surface (A11)		rk Surface(F6)		
	Thick Dark Surface (,		ark Surface	•	3Indicators of Hyd	rophytic vegetation and
	Sandy Mucky Mineral	(S1)			ressions (F			ology must be present,
	5 cm Mucky Peat or P	eat (S3)					•	ped or problematic.
estrictive	e Layer (if observed):	:						
Type							Hydric Soil Preser	t? Yes⊠ No 🏻
Denti	h (inchae).							
emarks:	h (inches):							
emarks:								
emarks:		c						
DROLO	OGY		is required; chec	ck all that apply)			Secondary In	dicators (minimum of two required
DROLO	OGY Hydrology Indicators ary Indicators (minimu		is required; chec		d Leaves (B	9)		•
DROLO	OGY Hydrology Indicators ary Indicators (minimu Surface Water (A1)	ım of one	is required; chec	☐ Water-Staine	-	9)	_ <u>⊠</u> Surface	Soil Cracks (B6)
DROLC Vetland I Prim	OGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2	ım of one	- -	☐ Water-Staine ☐ Aquatic Faun	a (B13)		Surface Drainage	Soil Cracks (B6) Patterns (B10)
DROLO	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3)	ım of one	- -	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)	Surface Drainage Dry-Sea	Soil Cracks (B6) Patterns (B10) son Water Table (C2)
DROLO Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	um of one	- - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14 lfide Odor (C) C1)	Surface□ Drainage□ Dry-Sea□ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8)
DROLO Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B	um of one	- - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14 Ifide Odor (C zospheres o) C1) n Living Ro	Surface □ Drainage □ Dry-Sea □ Crayfish ots (C3) □ Saturati	Soil Cracks (B6) Patterns (B10) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C
DROLC Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	<u>um of one</u> 2) 32)	- - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I	a (B13) Plants (B14 Ifide Odor (0 zospheres o) C1) n Living Ro n (C4)	Surface Drainage Dry-Sea Crayfish ots (C3) Saturati Stunted	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1)
DROLO Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B	<u>um of one</u> 2) 32)	- - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F	a (B13) Plants (B14 Ifide Odor (C zospheres o Reduced Iro Reduction in) C1) n Living Ro n (C4)	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Chic Position (D2)
DROLO Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	um of one 2) 32) 4)	- - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14) Ifide Odor (Consequence of the consequence of the) C1) n Living Ro n (C4)	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1)
DROLO Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on	um of one 2) 32) 4) Aerial Im		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck St Gauge or We	a (B13) Plants (B14) Ifide Odor (Considerate of the Considerate of the) C1) n Living Ro n (C4) Tilled Soils	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Chic Position (D2)
DROLO Vetland I	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (um of one 2) 32) 4) Aerial Im		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14) Ifide Odor (Considerate of the Considerate of the) C1) n Living Ro n (C4) Tilled Soils	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Chic Position (D2)
Prim.	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations:	2) 32) 4) Aerial Im		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck St Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (Considerate of the Considerate of the) C1) n Living Ro n (C4) Tilled Soils	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Chic Position (D2)
Prim	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations:	im of one 2) 32) 4) Aerial Im Concave S	agery (B7)Surface (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (Considerate of the Considerate of the) C1) n Living Ro n (C4) Tilled Soils	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Chic Position (D2)
DROLO Vetland I Prim □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Yele Present?	im of one 2) 32) 4) Aerial Im Concave S	agery (B7) Surface (B8) No 🛛 Depti	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck Si Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (Considerate of the Considerate of the) C1) n Living Ro n (C4) Tilled Soils	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Chic Position (D2)
Prim. Prim. Drim. Drim. D	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Yele Present?	im of one 2) 32) 4) Aerial Im Concave S	agery (B7) Surface (B8) No 🛛 Depti	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (Considerate of the Considerate of the) C1) n Living Ro n (C4) Tilled Soils	Surface □ Drainage □ Dry-Sea □ Crayfish □ Stunted □ Stunted □ Geomore □ Geomore □ Crayfish □ Crayfish	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Phic Position (D2) Sutral Test (D5)
Prim	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Present? Present? Yer Present? Yer Capillary fringe)	im of one 2) 32) 4) Aerial Im Concave S Yes Yes Yes m gauge,	aggery (B7) Surface (B8) No Depti No Depti No Depti	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck St Gauge or We Other (Explain h (inches): h (inches): h (inches): 16	a (B13) Plants (B14) Ifide Odor (Consequence of Consequence of Con) C1) n Living Roon (C4) Tilled Soils (S)	Surface Drainage Dry-Sea Crayfish ots (C3) Saturati Stunted (C6) FAC-Ne Wetland Hydrology Pres	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Pohic Position (D2) Sutral Test (D5)
Prim Prim Day DROLO Vetland I Prim Day	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Present? The Present? Th	im of one 2) 32) 4) Aerial Im Concave S Yes res m gauge, Exhibit 4),	aggery (B7) Surface (B8) No Depti No Depti No Depti monitoring well, and Image revie	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck St Gauge or We Other (Explain h (inches): h (inches): h (inches): 16 aerial photos, prevew Area D (Exhibit	a (B13) Plants (B14) Ifide Odor (Conspheres of Reduced Iron Reduction in Jurface (C7) If Data (D9) In in Remark Vious inspects 12, 13, and) C1) n Living Roon n (C4) Tilled Soils ss)	Surface Drainage Dry-Sea Crayfish ots (C3) Saturati Stunted Geomory FAC-Ne Wetland Hydrology Pres	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Coor Stressed Plants (D1) Pohic Position (D2) Sutral Test (D5) Pent? Yes \(\times \) No \(\times \)
DROLO Vetland I Prim	DGY Hydrology Indicators ary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (Servations: Vater Present? Present? The Present? Th	im of one 2) 32) 4) Aerial Im Concave S (es (es (res (res	agery (B7) Surface (B8) No Depti No Depti No Depti No Depti and Image revied that 6 out of 8	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron F Thin Muck Si Gauge or We Other (Explain h (inches): h (inches): h (inches): 16 aerial photos, prevew Area D (Exhibit 8 (75%) images	a (B13) Plants (B14) Ifide Odor (Coospheres of Reduced Iron Reduction in Jurface (C7) If Data (D9) In in Remark Vious inspects 12, 13, and with normal) C1) n Living Ro n (C4) Tilled Soils s) tions), if ava	Surface Drainage Dry-Sea Crayfish ots (C3) Saturati Stunted Geomory FAC-Ne Wetland Hydrology Pres	Soil Cracks (B6) Patterns (B10) Son Water Table (C2) Burrows (C8) On Visible on Aerial Imagery (Cor Stressed Plants (D1) Ohic Position (D2) Lutral Test (D5) Pent? Yes \ No \

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/04/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 44 Applicant/Owner: ___ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Houghton muck (HtA) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 4 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 75% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 20 **FAC** Prevalence Index = B/A = 1. Panicum capillare <u>FACU</u> **Hydrophytic Vegetation Indicators:** <u>18</u> \boxtimes 2. Erigeron canadense <u>15</u> \boxtimes OBL 3. Amaranthus tuberculatus ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> \boxtimes **FACW** 4. Veronica peregrina 3 - Prevalence Index is ≤3.0¹ <u>10</u> **OBL** 5. Rorripa palustris ☐ 4 - Morphological Adaptations¹ (Provide supporting 8 **FACU** data in Remarks or on a separate sheet) 6. Cirsium arvense ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 8 **FACU** 7. Thlaspi arvense 8. ____

= Total Cover

94

0

= Total Cover

US Army Corps of Engineers

Woody Vine Stratum (Plot size: 30' radius)

Remarks: (Include photo numbers here or on a separate sheet.) Agricultural field.

10. ____

2. ___

No \square

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

Vegetation Present?

SOIL Sampling Point: 44

		•				iiiiiii tiie a	bsence of indicators.)	
Depth	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (mois	t) %	Type ¹	Loc ²	Texture	Remarks
0-12	10 YR 3/1	100					Clay loam	
12-18	2.5Y 4/1	90	10YR 5/6	10	С	PL M	Clay loam	
18-25	10GY 6/1	40	10YR 4/6	60	С	PL M	Clay loam	
							- '	
	-							
	Concentration, D=Dep	letion, RM	/I=Reduced Matri	x, MS=Masked S	and Grains		² Location: PL=Pore	
	il Indicators: Histosol (A1)			☐ Sandy Gle	yed Matrix (S	34)	Indicators for Proble Coast Prairie F	-
	Histic Epipedon (A2)			☐ Sandy Red		.,	Dark Surface (
	Black Histic (A3)			Stripped M			☐ Iron-Mangane	
	Hydrogen Sulfide (A4)				cky Mineral (-		Dark Surface (TF12)
	Stratified Layers (A5) 2 cm Muck (A10)				eyed Matrix (F	- 2)	Other (Explain	in Remarks)
	Depleted Below Dark	Surface	(Δ11)	Depleted N	/เลเกิx (คิง) rk Surface (Fi	3)		
	Thick Dark Surface (A		(ATT)		Dark Surface	,	3Indicators of Hydro	ophytic vegetation and
	Sandy Mucky Mineral	(S1)			oressions (F8			ogy must be present,
	5 cm Mucky Peat or P	eat (S3)						ed or problematic.
	e Layer (if observed):							
	:						Hydric Soil Present?	P Yes⊠ No □
Depi	th (inches):							
VDDAL	004							
Wetland	Hydrology Indicators		is required; check	k all that apply)			Secondary Indi	cators (minimum of two required)
Wetland	Hydrology Indicators nary Indicators (minimu		is required; chec	_				cators (minimum of two required)
	Hydrology Indicators hary Indicators (minimu Surface Water (A1)	m of one	is required; chec	Water-Staine	,	9)	Surface S	pil Cracks (B6)
Wetland Prim	Hydrology Indicators nary Indicators (minimu Surface Water (A1) High Water Table (A2	m of one	is required; checl	☐ Water-Staine ☐ Aquatic Faur	na (B13)	•	Surface So	pil Cracks (B6) Patterns (B10)
Wetland	Hydrology Indicators hary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)	m of one	is required; checl	Water-Staine Aquatic Faur True Aquatic	na (B13) Plants (B14)	, 1	Surface Solution Drainage I	poil Cracks (B6) Patterns (B10) on Water Table (C2)
Wetland Prim	Hydrology Indicators hary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1)	m of one	<u>]</u> <u>]</u> <u></u>	Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) Plants (B14) Ilfide Odor (C	:1)	Surface So Drainage I Dry-Seaso Crayfish B	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8)
Wetland Prim □ □ □ □ □ □ □ □ □ □ □ □ □	Hydrology Indicators hary Indicators (minimu Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (E	m of one]] _ 	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	na (B13) Plants (B14) Ilfide Odor (C zospheres or	:1) n Living Ro	Surface Solution Drainage I Dry-Seaso Crayfish B ots (C3) Saturation	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one 2) 32)]]] _ _ 	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror	:1) n Living Ro	Surface Solution Drainage I Dry-Seaso Crayfish B ots (C3) Saturation Stunted or	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4)	m of one 2) 32)]_ 	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror	:1) n Living Ro	Surface Solution of the content of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	m of one 2) 32) 4)]] _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7)	:1) n Living Ro	Surface Solution of the control of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	m of one 2) 32) 4) Aerial Im:		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated (A1)	m of one 2) 32) 4) Aerial Im:		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations:	m of one 2) 32) 4) Aerial Ima Concave S		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Caservations: Water Present? Y	m of one 2) 32) 4) Aerial Imaconcave Sees		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland Prim	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Oservations: Vater Present? Y ble Present? Y	m of one 2) 32) Aerial Image Concave S		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck Si Gauge or We Other (Explai	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland Prim D D D Surface W Water Ta Saturation	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Oservations: Vater Present? Y ble Present? Y	m of one 2) 32) Aerial Image Concave S		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
Wetland Prim D D D D Surface V Water Ta Saturation (includes	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Water Present? Present? Present? Y Capillary fringe)	m of one 2) 32) Aerial Ima Concave S es es es es es es es	agery (B7) _ C Surface (B8) C No ⊠ Depth No ⊠ Depth No ⊡ Depth	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain (inches): (inches): (inches): 24	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remark	c1) n Living Ro n (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\bigcup \) No \(\bigcup \)
Wetland Prim D D D D Field Ob: Surface V Water Ta Saturatio (includes Describe Map (Exh	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations: Water Present? Present? Present? Yer Present? Yer Present? Yer Capillary fringe) Recorded Data (streamilibit 3), and Aerial photo	m of one 2) 32) 4) Aerial Image Concave S es concave S	agery (B7) Courface (B8) Courf	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain (inches): (inches): (inches): 24	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	c1) n Living Ro n (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
Wetland Prim D D D D Field Ob: Surface V Water Ta Saturatio (includes Describe Map (Exh	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Water Present? Present? Present? Present? Y Capillary fringe) Recorded Data (stream	m of one 2) 32) 4) Aerial Image Concave S es concave S	agery (B7) Courface (B8) Courf	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain (inches): (inches): (inches): 24	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	c1) n Living Ro n (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\bigcup \) No \(\bigcup \)
Wetland Prim D D D D D D Surface V Water Ta Saturation (includes Describe Map (Exh	Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations: Water Present? Present? Present? Yer Present? Yer Present? Yer Capillary fringe) Recorded Data (streamilibit 3), and Aerial photo	m of one 2) 32) 4) Aerial Image Concave S es concave S	agery (B7) Courface (B8) Courf	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron F Thin Muck St Gauge or We Other (Explain (inches): (inches): (inches): 24	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	c1) n Living Ro n (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\bigcup \) No \(\bigcup \)

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Lynn Kurer and Wayne Bushberger Properties Cit Applicant/Owner: Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Landform (hillslope, terrace, etc.): hillslope Slope (%): 0-2%	Section Sectio	y of Muskego/ on, Township, relief (concav Yes \(\subseteq \) N Are "Normal (If, needed,	Waukesha C Range: NE e, convex, no o ☐ (If no I Circumstano explain any a	State: WI Sampling Point: 45 1/4 Section 14, T5N, R20E one): linear Datum: NWI classification: None o, explain in Remarks) ces" present? Yes \(\) No \(\) answers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soils Present? Wetland Hydrology Present? Remarks: 90-day antecedent precipitation is normal.		Is the Samp within a We		☐ Yes ☑ No
VEGETATION – Use scientific names of plants.				
Tree Stratum (Plot size: 30' radius) 1. Acer saccharum 2. Rhamnus cathartica 3. Fraxinus pennsylvanica (dying) 4 5.	Absolute % Cover 60 15 10	Dominant Species? □ □ □ □ □	Indicator Status FACU FAC FACW	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of Dominant Species
	<u>85</u>	= Total Co	ver	That Are OBL, FACW, or FAC: 75% (A/B)
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:
1. Rhamnus cathartica	<u>95</u>		<u>FAC</u>	Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
Herb Stratum (Plot size: 5' radius)	<u>95</u>	= Total Cov	ver	UPL species x 5 =
	<u>25</u>		FAC	Column Totals: (A) (B) Prevalence Index = B/A =
1. Rhamnus cathartica	<u>15</u>		FAC	Hydrophytic Vegetation Indicators:
Alliaria petiolata Circaea canadensis	<u>10</u>		<u>FACU</u>	
4. Hesperis matronalis	<u></u>		FACU	☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50%
5. Geum canadense	<u>3</u>		FAC	☐ 3 - Prevalence Index is ≤3.0¹
6				4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
7				5 - Problematic Hydrophytic Vegetation¹ (Explain)
8				
9				¹ Indicators of hydric soil and wetland hydrology must
10				Be present, unless disturbed or problematic.
	<u>58</u>	= Total Co	ver	
Woody Vine Stratum (Plot size: 30' radius)				Hydrophytic
1				Vegetation
2				Present? Yes ⊠ No □
	0	= Total Co	ver	

Remarks: (Include photo numbers here or on a separate sheet.) Buckthorn thicket and hardwoods.

OIL							Samplin	g Point: <u>45</u>
Profile Des	scription: (Describe	to the dep	oth needed to docun	nent the ind	icator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks
0-6	10YR 2/1	100					Silt loam	. temanic
6-13	10YR 2/1	95	10YR 3/4	5		PL M	Loam	
	-						• •———	
13-18	10YR 2/1	80	5YR 3/4	8	C	PL M	Clay loam	
	5Y 4/2	12						
18-25	10YR 6/2	85	7.5YR 4/6	15	C	PL M	Sandy clay loam	
17	0	. I. di DA	A. D. door d.M. Marketon M.	0. Maralara 1.0	1 0		21 41	Literary BA BA Adults
	Concentration, D=Dep il Indicators:	pletion, RN	/I=Reduced Matrix, M	S=Masked S	and Grains		² Location: PL=Pore Indicators for Proble	
,	Histosol (A1)		П	Sandy Gle	yed Matrix (S	S4)	Coast Prairie F	
	Histic Epipedon (A2)		뉴	Sandy Red		· · /	Dark Surface (
	Black Histic (A3)		=	Stripped M			☐ Iron-Mangane	
	Hydrogen Sulfide (A4)		Loamy Mu	cky Mineral (F1)	Very Shallow [Dark Surface (TF12)
	Stratified Layers (A5)			Loamy Gle	eyed Matrix (I	=2)	Other (Explain	in Remarks)
	2 cm Muck (A10)			Depleted N	` '			
	Depleted Below Dark		A11) 🔲		rk Surface (I			
	Thick Dark Surface				Dark Surface		•	phytic vegetation and
	Sandy Mucky Mineral		<u> </u>	_ Redox Dep	oressions (F8	3)	-	ogy must be present,
	5 cm Mucky Peat or F						Unless disturbe	ed or problematic.
Type	e Layer (if observed)	:					Uhadela Oall Baranas	N M N- D
	 h (inches):						Hydric Soil Present?	P Yes⊠ No □
Remarks:	(I	
r torriarito.								
HYDROLO	OGY							
	Hydrology Indicators	s:						
Prim	ary Indicators (minimu	ım of one	is required check all	that apply)			Secondary India	cators (minimum of two required)
		0. 0			(5	• `	<u> </u>	
<u> </u>	Surface Water (A1)				ed Leaves (B	9)		oil Cracks (B6)
	High Water Table (A	2)		Aquatic Faun	na (B13)		Drainage F	Patterns (B10)
	Saturation (A3)				Plants (B14)		Dry-Seaso	on Water Table (C2)
	Water marks (B1)			Hydrogen Su	ılfide Odor (C	21)	Crayfish B	urrows (C8)
	Sediment Deposits (B2)		Oxidized Rhi	zospheres o	n Living Ro	ots (C3) Saturation	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	n (C4)	☐ Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (E	34)		Recent Iron F	Reduction in	Tilled Soils	(C6) Geomorph	nic Position (D2)
	Iron Deposits (B5)	•		Thin Muck S			· · · · ·	ral Test (D5)
	Inundation Visible or	Aerial Im		Gauge or We			<u> </u>	
ᅡ	Sparsely Vegetated		· · · · —	•	in in Remark	e)		
Field Obs	servations:	Concave	Duriace (DO)	Otrier (Explai	III III IXCIIIAIK	3)		
		∕es □	No 🛛 Depth (inc	hes):				
				hes):				
		∕es ⊠	No Depth (incl	hes): <u>18</u>			Wetland Hydrology Preser	nt? Yes ☐ No ⊠
,	capillary fringe)							
Describe '		m gauge,	monitoring well, aeria	I photos, pre	vious inspect	tions), if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
Map (Exh	ibit 3), and Aerial phot	-						
Map (Exh	ibit 3), and Aerial phot No wetland hydrol	-						
Map (Exh		-						

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 46 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Lat: Long: _ Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: S3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>20</u> \boxtimes **FACW** 1. Fraxinus pennsylvanica (dying) **Number of Dominant Species** That are OBL, FACW, or FAC: <u>5</u> (A) 2. **Total Number of Dominant** Species Across All Strata: <u>5</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 20 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>25</u> \boxtimes **FAC** 1. Rhamnus cathartica Total % Cover of: Multiply by: <u>20</u> \boxtimes **FACW** 2. Frangula alnus **OBL** species x 1 = x 2 = 3. ____ **FACW** species **FAC** species x 3 = FACU species x 4 = 45 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FACW** Prevalence Index = B/A = 1. Impatiens capensis **Hydrophytic Vegetation Indicators:** <u>12</u> \boxtimes **OBL** 2. Epilobium coloratum 10 FAC 3. Rhamnus cathartica ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 5 П **FAC** 4. Geum canadense 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FAC** 5. Solanum dulcamara ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>FAC</u>W 3 6. Symphyotrichum lateriflorum data in Remarks or on a separate sheet)

0 Remarks: (Include photo numbers here or on a separate sheet.) Shrub-carr (buckthorn thicket) along the edge of fresh (wet) meadow.

60

П

= Total Cover

= Total Cover

Woody Vine Stratum (Plot size: 30' radius)

7. ____

10. ____

2. ___

No 🗌

☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

Vegetation Present?

OIL									Sampling Po	oint: <u>46</u>
Profile Des	scription: (Describe t	o the dep	oth needed to	docun	nent the indic	cator or cor	nfirm the a	absence of indicato	ors.)	
Depth	Matrix				Redox Featu	ıres		<u></u>		
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture		Remarks
0-7	2.5Y 2.5/1	100	· ·		<u> </u>			Silty clay loam		
7-14	2.5Y 2.5/1	94	10YR 3/4		6	С	PL M	Silty clay loam		
14-20	5Y 4/1	90	7.5YR 4/6		10	C	PL M	Clay loam		
20-26	5Y 5/1	90	10YR 4/6		10		PL M	Clay loam		
20-20	31 3/1		10111 4/0					Clay Ioani		
		-								
	-									
¹Type: C=0	Concentration, D=Dep	letion RM	/=Reduced M	atrix M:	S=Masked Sa	and Grains		² I ocation:	PI =Pore I in	ing, M=Matrix
-,-	I Indicators:			ww.,						tic Hydric Soils ³ :
	Histosol (A1)				Sandy Gley	ed Matrix (S	54)		t Prairie Red	
	Histic Epipedon (A2)				Sandy Redo	, ,			Surface (S7)	
	Black Histic (A3)				Stripped Ma	. ,			-	Masses (F12)
	Hydrogen Sulfide (A4)			<u></u>	Loamy Muc					Surface (TF12)
	Stratified Layers (A5)			ᆜ	_Loamy Gley		-2)	Other	(Explain in I	Remarks)
	2 cm Muck (A10) Depleted Below Dark	Curface (۸ 1 1)		Depleted Ma Redox Darl		-c)			
	Thick Dark Surface (•	411)			ark Surface (r	•	2		
	Sandy Mucky Mineral			H	Redox Depr		. ,			tic vegetation and
	5 cm Mucky Peat or P					(-	,			must be present, r problematic.
	Layer (if observed):	. ,						Office	3 distarbed o	i problematic.
Type								Hydric Soil	Present?	Yes⊠ No □
	n (inches):							1., 4		
Remarks:										
HYDROLO	OGY									
Wetland I	Hydrology Indicators	:								
Prima	ary Indicators (minimu	m of one	is required; ch	neck all	that apply)			Secon	dary Indicato	ors (minimum of two required)
	Surface Water (A1)			п ,	Water-Stained	N Loovos (BC	2)	П	urface Soil C	Procks (R6)
	, ,)				-	9)			,
	High Water Table (A2	<u>2)</u>			Aquatic Fauna				rainage Patt	, ,
	Saturation (A3)				True Aquatic F					Water Table (C2)
	Water marks (B1)				Hydrogen Sulf	-	•		rayfish Burro	
	Sediment Deposits (E	32)			Oxidized Rhiz	ospheres or	n Living Ro	oots (C3) S	aturation Vis	ible on Aerial Imagery (C9)
	Drift Deposits (B3)			'	Presence of R	Reduced Iron	n (C4)	s	tunted or Str	essed Plants (D1)
	Algal Mat or Crust (Be	4)			Recent Iron R	eduction in	Tilled Soils	s (C6) <u>N</u> G	eomorphic	Position (D2)
	Iron Deposits (B5)				Thin Muck Su	rface (C7)		⊠ F	AC-Neutral	Test (D5)
	Inundation Visible on	Aerial Im	agery (B7)		Gauge or Wel	l Data (D9)				
	Sparsely Vegetated 0	Concave S	Surface (B8)		Other (Explair		s)			
Field Obs	ervations:		(- /		- (1		,			
Surface W	/ater Present? Y	es 🗌	No ⊠ De	pth (incl	hes):					
					hes): <u>20</u>					
Saturation					hes): <u>20</u> hes): <u>0 (at su</u>	rfaco)				
	capillary fringe)	es 🖂	MO □ De	pui (iiici	1165). <u>U (at su</u>	<u>IIace)</u>		Wetland Hydrolog	y Present?	Yes ⊠ No □
,								7.11 - 14	/F 1 11 11 41 1	AAA#
	•		-	ıı, aerial	photos, previ	ious inspect	ions), if av	allable: Topo Maps	(Exhibit 1), \	WWI Map (Exhibit 2), Soils
- ' '	bit 3), and Aerial phot	os (⊏XIIIDI	ı. 4 <i>)</i> .							
Remarks:										

WETI AND DETERMINATION DATA FORM - Midwest Region

Project/Site: Lynn Kurer and Wayne Bushberger Prop Applicant/Owner: Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; Sl	<u>EWRPC</u> Sec	ction, Township,	, Range: <u>NE</u>	State: <u>WI</u> 1/4 Section 14, T5N, R	Sampling Date: 09/05/2019 Sampling Point: 47 20E
Landform (hillslope, terrace, etc.): hillslope		al relief (conca	ve, convex, no	one): <u>linear</u>	
Slope (%): <u>0-2%</u> Soil Map Unit Name: <u>Wet alluvial land (Ww)</u>	Long:			NI\A/I al	Datum: assification: None
Are climatic/hydrologic conditions on the site typical fo	or this time of year?	Yes ⊠ N	No □ (If n	o, explain in Remarks)	assilication. <u>None</u>
Are Vegetation, Soil, or Hydrology				ces" present? Yes	No □
Are Vegetation, Soil, or Hydrology	naturally problematic?	(If, needed,	, explain any	answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showii	ng sampling point loca	ations, transec	ts, importan	features, etc.	
Hydrophytic Vegetation Present? Hydric Soils Present? Wes Wetland Hydrology Present? Yes Present Of the Pre	□No □No ☑ No	Is the Samp within a We		☐ Yes	⊠No
Remarks: 90-day antecedent precipitation is n	оппаі.				
VEGETATION – Use scientific names of plants.					
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	Absolute % Cove		Indicator Status	Dominance Test v	vorksheet:
1. Fraxinus pennsylvanica (dying)	15		FACW	Number of Dominant	
2. Morus alba	<u></u>	\boxtimes	FAC	That are OBL, FACW	•
3. Rhamnus cathartica	<u></u> <u>5</u>		FAC	Total Number of Dom	
	<u>=</u>		1710	Species Across All St	
4					
5	30	= Total Co	ver	Percent of Dominant That Are OBL, FACW	•
Sapling/Shrub Stratum (Plot size: 30' radius)	<u></u>			Prevalence Index we	
1. Rhamnus cathartica	<u>95</u>	\boxtimes	FAC	Total % Cover o	f: Multiply by:
2. Fraxinus pennsylvanica	<u> </u>		FACW	OBL species	x 1 =
3. Juniperus virginiana	<u>3</u>		<u>FACU</u>	FACW species	x 2 =
4		П		FAC species	x 3 =
5				FACU species	x 4 =
	<u>103</u>	= Total Co	ver	UPL species	x 5 =
Herb Stratum (Plot size: 5' radius)				Column Totals:	(A) (B)
1. Rhamnus cathartica	<u>80</u>	\boxtimes	FAC		ce Index = B/A =
2. Glechoma hederacea	<u>10</u>		FACU	Hydrophytic Vegeta	
3. Geum canadense	<u></u>		FAC		
	<u>2</u>		FAC	☐ 1 - Rapid Test for ☐ 2 - Dominance T	Hydrophytic Vegetation est is >50%
4. <u>Solanum dulcamara</u>	<u> </u>		<u>. , , , o</u>	3 - Prevalence Inc	dex is ≤3.0¹
5					Adaptations ¹ (Provide supporting
6					ks or on a separate sheet) ydrophytic Vegetation¹ (Explain)
7					, _[] (Explain)
8				1.10-10-14-1	and an decoder of the first
9				_	soil and wetland hydrology must sturbed or problematic.
10					
	<u>95</u>	= Total Co	ver		-
Woody Vine Stratum (Plot size: 30' radius)				Hydrophytic	
1. <u>Vitis riparia</u>	<u>3</u>		<u>FACW</u>	Vegetation	
2				Present? Y	es⊠ No □
_	<u>3</u>	= Total Co	ver		
Remarks: (Include photo numbers here or on a sep	parate sheet.) Buckthor	rn thicket.		1	

OIL									Sampling	Point: <u>47</u>
Profile De	scription: (Describe t	to the dep	oth needed to	docun	nent the indi	icator or con	firm the	absence of ir	ndicators.)	
Depth	Matrix				Redox Feat	ures				
(inches)	Color (moist)	%	Color (m	noist)	%	Type ¹	Loc ²		exture	Remarks
0-7	2.5Y 2.5/1	100						Silt loam	· -	
7-13	2.5Y 2.5/1	95	10YR 4/3		5		PL M	Silt loam	·	
			10YR 5/6							
13-27	10YR 5/2	80	10 Y R 5/6		20		PL M	Silty clay lo	oam	
							-			
	<u> </u>									
	- <u></u>							_		
1-								2.		
	Concentration, D=Dep	letion, RM	1=Reduced M	atrix, M	S=Masked S	and Grains			ation: PL=Pore L	<u> </u>
_	il Indicators: Histosol (A1)				Sandy Glay	yed Matrix (S	4)		Coast Prairie R	matic Hydric Soils ³ :
	Histic Epipedon (A2)			+	Sandy Red		4)		_ Dark Surface (S	
	Black Histic (A3)			+	Stripped M				Iron-Manganese	
	Hydrogen Sulfide (A4))				cky Mineral (F	=1)		_	ark Surface (TF12)
	Stratified Layers (A5)					yed Matrix (F			Other (Explain i	
	2 cm Muck (A10)				Depleted M	•	,		_ ` .	,
	Depleted Below Dark	Surface (A	A11)		Redox Dar	rk Surface (F	·6)			
	Thick Dark Surface (ark Surface (³ Ind	licators of Hydrop	hytic vegetation and
	Sandy Mucky Mineral	(S1)			_Redox Dep	pressions (F8))			gy must be present,
	5 cm Mucky Peat or P	. ,							Unless disturbed	l or problematic.
Restrictiv	e Layer (if observed):									
Туре								Hydri	c Soil Present?	Yes 🛛 No 🗌
Dept	th (inches):									
Remarks:										
<u> IYDROL</u>										
Wetland	Hydrology Indicators	::								
<u>Prim</u>	nary Indicators (minimu	m of one	is required; cl	neck all	that apply)				Secondary Indica	ators (minimum of two required)
	Surface Water (A1)			П,	Water-Staine	ed Leaves (B9))		☐ Surface Soi	l Cracks (B6)
▎▕	High Water Table (A2	2)			Aquatic Faun	-	, ,	_		atterns (B10)
	= :	<u>-</u>)						-		
	Saturation (A3)					Plants (B14)		_		Water Table (C2)
	Water marks (B1)					Ifide Odor (C	•	_	Crayfish Bu	, ,
	Sediment Deposits (E	32)			Oxidized Rhiz	zospheres on	Living Ro	oots (C3)	Saturation \	/isible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of I	Reduced Iron	(C4)	_	Stunted or S	Stressed Plants (D1)
	Algal Mat or Crust (B	4)			Recent Iron F	Reduction in 1	Filled Soils	s (C6)	☐ Geomorphic	c Position (D2)
	Iron Deposits (B5)				Thin Muck Su	urface (C7)		_		al Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We			_		
	Sparsely Vegetated 0		o , , ,		-	in in Remarks	:)			
Field Ob	servations:	Jonioave C	pariace (BO)	- Ш	Otrici (Explai	III III Komano	,,			
		es □	No 🛛 De	nth (inc	hes):					
					· —					
					hes):					
		es 🗌	No 🛛 De	pth (inc	hes):			Wetland Hy	drology Present	? Yes ☐ No ⊠
(includes	capillary fringe)							_		
	•		-	ell, aeria	I photos, prev	vious inspecti	ons), if av	/ailable: Topo	Maps (Exhibit 1)), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo	•								
Remarks	Only one secondar	ry wetlan	d hydrology	indicat	tor observed	d.				

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 09/05/2019 Applicant/Owner: Sampling Point: 48 State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): <u>depression</u> Local relief (concave, convex, none): concave Slope (%): 0-2% Long: Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: S3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal.

′	E(jΕ	IΑ	по	N –	Use	scientific	names	of	plants	۶.

ree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
. Rhamnus cathartica	<u>20</u>	<u>⊠</u>	FAC	Number of Dominant Species
. Fraxinus pennsylvanica (dying)	<u>5</u>	\boxtimes	FACW	That are OBL, FACW, or FAC: 5 (A)
·		П		Total Number of Dominant
·				Species Across All Strata: <u>5</u> (B)
·		П		Percent of Dominant Species
	<u>25</u>	= Total Co	ver	That Are OBL, FACW, or FAC: 100% (A/B)
apling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:
. <u>Rhamnus cathartica</u>	<u>90</u>	\boxtimes	FAC	Total % Cover of: Multiply by:
. <u>Fraxinus pennsylvanica</u>	<u>5</u>		<u>FACW</u>	OBL species x 1 =
. <u></u>				FACW species x 2 =
. <u></u>		П		FAC species x 3 =
·				FACU species x 4 =
<u> </u>	<u>95</u>	= Total Co	ver	UPL species x 5 =
lerb Stratum (Plot size: <u>5' radius</u>)				Column Totals: (A) (E
. Rhamnus cathartica	<u>10</u>	\boxtimes	<u>FAC</u>	Prevalence Index = B/A =
. <u>Solanum dulcamara</u>	<u>5</u>	\boxtimes	<u>FAC</u>	Hydrophytic Vegetation Indicators:
. <u>Ribes americanum</u>	<u>3</u>		FACW	☐ 1 - Rapid Test for Hydrophytic Vegetation
·		П		
·		П		☐ 3 - Prevalence Index is ≤3.0¹☐ 4 - Morphological Adaptations¹ (Provide supporting
·		П		data in Remarks or on a separate sheet)
·				☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain)
·				
·				¹ Indicators of hydric soil and wetland hydrology must
0		П		Be present, unless disturbed or problematic.
o	<u>18</u>	= Total Co	ver	
Voody Vine Stratum (Plot size: 30' radius)				I budaan buda
,				Hydrophytic Vegetation
· 		_		Present? Yes ⊠ No □
· 	0	= Total Co	ver	
Remarks: (Include photo numbers here or on a separa				

SOIL Sampling Point: 48

Profile De	scription: (Describe t	o the dep	oth needed to docu	ıment the ind	licator or con	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Fea	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-17	10YR 2/1	100					Silt loam	
17-24	2.5Y 6/2	85	10YR 5/6	15	С	PL M	Clay loam	
	· -							
			•					
	Concentration, D=Dep	letion, RM	1=Reduced Matrix, I	MS=Masked S	Sand Grains		² Location: PL=Pore	
	il Indicators: Histosol (A1)		г	□ Sandy Gla	yed Matrix (S	:4)	Indicators for Proble ☐ Coast Prairie F	ematic Hydric Soils ³ :
	Histic Epipedon (A2)		<u>_ </u>	Sandy Gle		14)	Dark Surface (
	Black Histic (A3)			Stripped M	, ,		Iron-Mangane	
	Hydrogen Sulfide (A4)				ıcky Mineral (I	F1)		Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	⁻ 2)	Other (Explain	in Remarks)
	2 cm Muck (A10)			Depleted N				
	Depleted Below Dark S Thick Dark Surface (A		\11) <u>L</u>		rk Surface (F6 Dark Surface (,		
	Sandy Mucky Mineral	•	L		pressions (F8			ophytic vegetation and
	5 cm Mucky Peat or P		<u>_ L</u>		procederio (r o	,		ogy must be present, ed or problematic.
	e Layer (if observed):						Offices distarbe	od or problematic.
	e:						Hydric Soil Present	? Yes⊠ No □
Dept	th (inches):						·	
Remarks:								
D/DD 61	001							
IYDROL	OGY Hydrology Indicators							
			:	II 4h a4 amul ()			Casandani Indi	(inim
Print	nary Indicators (minimu	m or one	is required; check a	ıı tnat appıy)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)			Water-Staine	ed Leaves (B9	9)		oil Cracks (B6)
	High Water Table (A2	2)		Aquatic Faur			Drainage I	Patterns (B10)
	Saturation (A3)			True Aquation	Plants (B14)		Dry-Seaso	on Water Table (C2)
	Water marks (B1)			Hydrogen Su	ulfide Odor (C	:1)	Crayfish B	surrows (C8)
	Sediment Deposits (E	32)		Oxidized Rhi	izospheres or	Living Ro	oots (C3) 🔲 Saturation	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of	Reduced Iron	n (C4)	☐ Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B4	4)		Recent Iron	Reduction in ⁻	Tilled Soils	s (C6) Geomorp	hic Position (D2)
	Iron Deposits (B5)			Thin Muck S	urface (C7)		☐ FAC-Neut	ral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated C			-	ain in Remar	ks)		
Field Ob	servations:		· / _	<u> </u>		,		
Surface V	Vater Present? Y	es 🗌	No 🛛 Depth (ir	ches):	<u>-</u>			
Water Ta	ble Present? Y	es 🛚	No Depth (ir	ches): 32				
Saturatio	n Present? Y	es 🛚		ches): <u>17</u>			W (1 11 1 1 1 5	
(includes	capillary fringe)	_		, <u>—</u>			Wetland Hydrology Preser	nt? Yes⊠ No □
Describe	Recorded Data (strean	n gauge. i	monitoring well. aer	al photos, pre	vious inspect	ions). if av	vailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo		_	, -, -,	-1	,,	1 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	, -p
Remarks	: Trees and shrubs	exhibited	morphological ad	daptions to w	et condition	s, e.g. m	ultiple stems, shallow root	s as seen in Exhibit 11, Photo
36.								
1								

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: __ State: WI Sampling Point: 49 Section, Township, Range: NE 1/4 Section 14, T5N, R20E Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Landform (hillslope, terrace, etc.): depression (constructed roadside swale) Local relief (concave, convex, none): linear, concave Lat: Datum: Soil Map Unit Name: Martinton silt loam (MgA) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>50</u> **FACW** Prevalence Index = B/A = 1. Agrostis stolonifera **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FAC** 2. Poa pratensis 10 **FACU** 3. Glechoma hederacea ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>10</u> П **FACU** 4. Trifolium repens 3 - Prevalence Index is ≤3.0¹ 5 **FAC** 5. Plantago major ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FAC** data in Remarks or on a separate sheet) 6. Rumex crispus ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 3 **FACU** 7. Taraxacum officinale 2 **FACW** 8. Carex vulpinoidea ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.

Remarks: (Include photo numbers here or on a separate sheet.) Atypical (mowed) wetland within a constructed roadside swale.

105

0

= Total Cover

= Total Cover

Hydrophytic

Vegetation Present?

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2. __

No 🗌

OIL								ng Point: 49
Profile De	scription: (Describe	to the dep	pth needed to docur	ment the indi	icator or co	nfirm the a	bsence of indicators.)	
Depth	Matrix			Redox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks
0-8	10YR 3/2	93	10YR 4/6	7	C	PL M	Silty clay loam	fill material
8-16	N 2.5/	93	7.5YR 3/4	7		PL M	Clay loam	
16-19	10YR 4/1	65	10YR 4/6	 15	C	PL M	Clay loam	-
10-13	N 2.5/	20	1011(4/0				Clay Ioani	
19-26	2.5Y 5/2		10YR 5/6	20	C	PL M	Sandy alay loom	-
19-20	2.31 3/2						Sandy clay loam	-
			10GY 6/1	5	D	M		_
¹Type: C=	Concentration, D=De	nletion RN	M=Reduced Matrix M	IS=Masked S	and Grains		² Location: PL=Pore	e Lining M=Matrix
	il Indicators:	piction, rti	Troduced Matrix, W	io maskoa o	ana Oramo			ematic Hydric Soils³:
	Histosol (A1)] Sandy Gle	yed Matrix (S	54)	☐ Coast Prairie	
	Histic Epipedon (A2)			Sandy Red	, ,		☐ Dark Surface	
	Black Histic (A3)		<u>_</u>	Stripped M			Iron-Mangane	
	Hydrogen Sulfide (A4	•	<u> </u>		cky Mineral (Dark Surface (TF12)
	Stratified Layers (A5) 2 cm Muck (A10)		<u> </u>	Depleted M	yed Matrix (F2)	Other (Explain	n in Remarks)
	Depleted Below Dark	Surface (A11) □	•	rk Surface (F6)		
	Thick Dark Surface (A	,			ark Surface (31 11 6 611 1	
	Sandy Mucky Minera		F		ressions (F		-	ophytic vegetation and logy must be present,
	5 cm Mucky Peat or I				•	,		ed or problematic.
	e Layer (if observed)							'
Туре	e:						Hydric Soil Present	? Yes⊠ No □
Dept	h (inches):							
IYDROL	OGY							
Wetland	Hydrology Indicator	s:						
Prim	ary Indicators (minim	um of one	is required; check all	that apply)			Secondary Indi	icators (minimum of two required)
	Surface Water (A1)			Water-Staine	nd I eaves (R	۵)	☐ Surface 9	Soil Cracks (B6)
ᅵ 뉴	High Water Table (A	2)		Aquatic Faun	,	3)		Patterns (B10)
	Saturation (A3)	12)				`		
	, ,			True Aquatic	-			on Water Table (C2)
ᅵ 블	Water marks (B1)	D0)		Hydrogen Su	,	,		Burrows (C8)
<u> </u>	Sediment Deposits (B2)		Oxidized Rhi	•	•	` ' 	n Visible on Aerial Imagery (C9)
	Drift Deposits (B3)			Presence of I		` '		r Stressed Plants (D1)
	Algal Mat or Crust (E	34)		Recent Iron F	Reduction in	Tilled Soils	· · · · · · · · · · · · · · · · · · ·	ohic Position (D2)
	Iron Deposits (B5)			Thin Muck Su	urface (C7)			tral Test (D5)
	Inundation Visible or	n Aerial Im	agery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated	Concave S	Surface (B8)	Other (Explai	in in Remark	s)		
Field Obs	servations:							
Surface V	Vater Present?	Yes □	No 🛛 Depth (inc	ches):				
Water Ta	ble Present?	Yes ⊠	No Depth (inc	ches): <u>22</u>				
	n Present? capillary fringe)	Yes ⊠	No Depth (inc	ches): <u>3</u>			Wetland Hydrology Prese	nt? Yes⊠ No □
,		m gauge	monitoring well aeria	al photos prev	vious inspec	tions). if av	ailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
Map (Exh	ibit 3), and Aerial pho		-	F.1.3100, P.10		<i>z</i> _j , ii av	Spospo (Exiliate	,,
Remarks:								

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 50 Applicant/Owner: ___ State: WI Section, Township, Range: NE 1/4 Section 14, T5N, R20E Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Landform (hillslope, terrace, etc.): hillslope (sideslope of constructed swale) Local relief (concave, convex, none): linear Lat: Datum: Soil Map Unit Name: Martinton silt loam (MgA) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: <u>1</u> (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 2 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 50% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>40</u> **FAC** Prevalence Index = B/A = 1. Poa pratensis **Hydrophytic Vegetation Indicators:** <u> 20</u> \boxtimes **FACU** 2. Medicago lupulina 15 **FACU** 3. Plantago lanceolata ☐ 1 - Rapid Test for Hydrophytic Vegetation ☐ 2 - Dominance Test is >50% <u>10</u> П **FACU** 4. Glechoma hederacea ☐ 3 - Prevalence Index is ≤3.0¹ П **FACU** <u>10</u> 5. Schedonorus arundinaceus ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FACU** 6. Trifolium repens data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must

= Total Cover

100

0

= Total Cover

Woody Vine Stratum (Plot size: 30' radius)

Remarks: (Include photo numbers here or on a separate sheet.) Mowed lawn.

10. ____

2. ___

No 🖂

Be present, unless disturbed or problematic.

Yes 🗌

Hydrophytic

Vegetation Present?

Drefile De	aarintian. (Daaarika t	a 4ha dau	14b maadad ta d	saumant tha ind	liantar ar any	afirm tha	· · · · · · · · · · · · · · · · · · ·	ng Point: <u>50</u>
Profile Des		o tne dep	otn needed to d			ntirm the a	absence of indicators.)	
Depth	Matrix			Redox Fea		. 2		
(inches)	Color (moist)	%	Color (mois		Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/2	92	10YR 4/6	3	C	PL M	Silty clay loam	fill material with gravel
	10YR 4/2	5						
10-18	10YR 4/2	94	10YR 4/6	6	C	PL M	Clay loam	
18+								Refusal: Rock/gravel fill
						-	· -	
						-	· -	
17	0	Latina DA	1 D. d 1 M. 4.	in MO Market C) 1 O 1		21 tion DI Don	- I to to a NA NA Adulto
, , , , , , , , , , , , , , , , , , ,	Concentration, D=Dep il Indicators:	letion, RIV	I=Reduced Matr	ix, MS=Masked S	Sand Grains		² Location: PL=Pore	e Lining, M=Matrix lematic Hydric Soils³:
-	Histosol (A1)			☐ Sandy Gle	eyed Matrix (S	64)	Coast Prairie	-
	Histic Epipedon (A2)			☐ Sandy Red		,	Dark Surface	
	Black Histic (A3)			Stripped M	. ,			ese Masses (F12)
	Hydrogen Sulfide (A4)				ıcky Mineral (Dark Surface (TF12)
	Stratified Layers (A5) 2 cm Muck (A10)				eyed Matrix (F Matrix (F3)	-2)	Other (Explain	n in Remarks)
	Depleted Below Dark	Surface	(Δ11)		matrix (F3) irk Surface (I	F6)		
	Thick Dark Surface (A		(****)		Dark Surface	•	3Indicators of Hydr	ophytic vegetation and
	Sandy Mucky Mineral				pressions (F8			plogy must be present,
	5 cm Mucky Peat or P	eat (S3)						ped or problematic.
Restrictive	e Layer (if observed):							
Туре							Hydric Soil Present	i? Yes⊠ No □
	h (inches):		4	-4 41		911 .	I that did not originate in	41-1-141
Remarks. V	wrille multiple nyand	, soil illu	cators were in	et, they were of	DSEIVEU III II	III IIIaleiia	i that did not originate in	ins location.
IYDROLO	OGY							
Wetland	Hydrology Indicators	:						
<u>Prim</u>	ary Indicators (minimu	m of one	is required; chec	k all that apply)			Secondary Ind	licators (minimum of two required)
Ιп	Surface Water (A1)		ſ	☐ Water-Staine	ed Leaves (B	9)	☐ Surface S	Soil Cracks (B6)
	High Water Table (A2)	<u></u> -	Aquatic Faur	•	-,		Patterns (B10)
	Saturation (A3)	-,	<u></u> -		c Plants (B14))		on Water Table (C2)
ᅡ	Water marks (B1)		<u></u> I		ulfide Odor (C			Burrows (C8)
ᅡ	Sediment Deposits (E	32)	<u>.</u> .		izospheres or	•	 -	n Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	,	<u>- '</u> -		Reduced Iror	•	` '	or Stressed Plants (D1)
	Algal Mat or Crust (B	4)	<u>- '</u> -		Reduction in	` '		hic Position (D2)
	Iron Deposits (B5)	")	_	Thin Muck S		Tilled Colle	<u> </u>	tral Test (D5)
	Inundation Visible on	Aorial Im		☐ Gauge or We			1 AC-Neu	tial rest (D3)
ᅵ	Sparsely Vegetated C					۵)		
Field Obs	servations:	oncave 3	surface (Bo) [☐ Other (Expla	in in Remark	s) 		
		es 🗌	No ⊠ Depth	ı (inches):				
				i (inches):	-			
				(inches): <u>18</u>				
	capillary fringe)	es 🖂	по 🔲 Берп	i (iiiciies). <u>10</u>			Wetland Hydrology Prese	ent? Yes ☐ No ⊠
,		2 22122	manitaring wall	aarial phataa pro	vieve incocet	tions) if ou	ailahlar Tana Mana (Eyhihit	1) MMM Man (Eyhibit 2) Saila
	Recorded Data (strean ibit 3), and Aerial photo		•	aeriai priotos, pre	vious irispect	uons), II av	a⊪abie. Topo iviaps (Exfilbit	1), WWI Map (Exhibit 2), Soils
- ' '	No wetland hydrolo			l.				
	,	J						
1								

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 51 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): lineaer Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>10</u> \boxtimes **FAC** 1. Rhamnus cathartica **Number of Dominant Species** That are OBL, FACW, or FAC: 4 (A) 2. **Total Number of Dominant** Species Across All Strata: <u>5</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 80% (A/B) <u>10</u> Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>30</u> \boxtimes **FAC** 1. Rhamnus cathartica Total % Cover of: Multiply by:

OBL species _ x 1 = 3. ____ __ x 2 = **FACW** species **FAC** species x 3 = FACU species _ x 4 = 30 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes NI (UPL) <u>25</u> Prevalence Index = B/A = 1. Physalis alkekengi **Hydrophytic Vegetation Indicators:** <u>20</u> \boxtimes **FACW** 2. Impatiens capensis 15 **FACW** 3. Solidago gigantea ☐ 1 - Rapid Test for Hydrophytic Vegetation **FACU** □ 2 - Dominance Test is >50% <u>10</u> П 4. Hesperis matronalis 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FAC** 5. Rhamnus cathartica ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> <u>FA</u>C 6. Solanum dulcamara data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ 8. ____ П ¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. 10. ____ = Total Cover 80 Woody Vine Stratum (Plot size: 30' radius) Hydrophytic <u>5</u> \boxtimes FACW Vegetation 1. Vitis riparia Present? Yes 🛛 No 🗌 2. ____ = Total Cover 5 Remarks: (Include photo numbers here or on a separate sheet.) Buckthorn thicket.

SOIL Sampling Point: 51

Depth						<u> </u>	bsence of indicators.)	
	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (moist)) %	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 2/1	100					Sandy loam	
16-26	10YR 4/1	60	10YR 3/6	10	С	PL M	Loamy fine sand	
	10YR 5/2	30						
			-					
_ , .	Concentration, D=Depl	letion, RM	1=Reduced Matrix	, MS=Masked S	Sand Grains		² Location: PL=Pore	
	il Indicators: Histosol (A1)			☐ Sandy Gle	yed Matrix (S	34)	Indicators for Proble Coast Prairie F	-
	Histic Epipedon (A2)		_	Sandy Red		,-,	Dark Surface (
	Black Histic (A3)		- _	Stripped M	, ,		Iron-Mangane	
	Hydrogen Sulfide (A4)				cky Mineral (Dark Surface (TF12)
	Stratified Layers (A5)		-		eyed Matrix (F	-2)	Other (Explain	in Remarks)
	2 cm Muck (A10) Depleted Below Dark S	Surface (/	_ 	Depleted N	Matrix (F3) rk Surface (F0	3)		
	Thick Dark Surface (/				Dark Surface	•	3Indicators of Lludra	unbutio vagatation and
	Sandy Mucky Mineral	-			pressions (F8			ophytic vegetation and ogy must be present,
	5 cm Mucky Peat or Pe	eat (S3)	-					ed or problematic.
	e Layer (if observed):							
	:						Hydric Soil Present	P Yes⊠ No □
Depti Remarks:	h (inches):							
YDROLO								
	20V							
Wetland I	Hydrology Indicators		is required; check	all that anniv)			Secondary Indi	cators (minimum of two required)
Wetland I	Hydrology Indicators ary Indicators (minimul		is required; check	_	(5)			cators (minimum of two required)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1)	m of one	is required; check] Water-Staine	,	9)	Surface S	pil Cracks (B6)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2	m of one	is required; check	Water-Staine Aquatic Faur	na (B13)	,	Surface So	pil Cracks (B6) Patterns (B10)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3)	m of one	is required; check	Water-Staine Aquatic Faur True Aquatic	na (B13) : Plants (B14)	, 1	Surface Solution Drainage I	poil Cracks (B6) Patterns (B10) on Water Table (C2)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) : Plants (B14) ulfide Odor (C	:1)	Surface Solution Drainage I Dry-Seaso Crayfish B	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8)
Wetland I	And the second s	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	na (B13) : Plants (B14) ulfide Odor (C izospheres or	:1) n Living Ro	Surface Solution Drainage I Dry-Seaso Crayfish B ots (C3) Saturation	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3)	m of one 2) 32)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) Plants (B14) ulfide Odor (C izospheres or Reduced Iror	:1) n Living Ro	Surface So Drainage I Dry-Seaso Crayfish B ots (C3) Stunted or	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	m of one 2) 32)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I	na (B13) Plants (B14) Ulfide Odor (C izospheres or Reduced Iror Reduction in	:1) n Living Ro	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland I	Ary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	m of one 2) 32) 4)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si	na (B13) Plants (B14) Ilfide Odor (C izospheres or Reduced Iror Reduction in urface (C7)	:1) n Living Ro	Surface Solution of the control of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland I	Ary Indicators (minimum of the property of the	m of one 2) 32) 4) Aerial Im:	E C C C C C C C C C C C C C C C C C C C	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland I	Ary Indicators (minimular) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C	m of one 2) 32) 4) Aerial Im:	E C C C C C C C C C C C C C C C C C C C	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We	na (B13) E Plants (B14) Ulfide Odor (Control of the control of the	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Wetland I	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Caservations:	m of one 2) 32) 4) Aerial Image	agery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of Control	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Prim Prim Prim Field Obs Surface W	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations:	m of one 2) 32) 4) Aerial Imaconcave Sees	agery (B7) Curface (B8) C	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of Control	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Prim. Prim. Prim. Prim. Prim. Prim. Surface Water Tat	Ary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations: Water Present?	m of one 2) 32) Aerial Image Concave S es es	agery (B7) Curface (B8) Courface (B8) Courfa	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of Control	:1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	oil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) oil Cosition (D2)
Prim. Prim. Prim. Prim. Prim. Prim. Prim. Surface Water Tat. Saturation	Ary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations: Water Present?	m of one 2) 32) Aerial Images Concave S es es es	agery (B7) Curface (B8) Courface (B8) Courfa	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) E Plants (B14) Ulfide Odor (Control of Control	c1) n Living Ro n (C4) Tilled Soils	Surface Solution of the control of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
Prim Prim Field Obs Surface W Water Tat Saturation (includes	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Vater Present? Present? The	m of one 2) 32) Aerial Ima Concave S es es es es es	agery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Control of the control of the c	c1) n Living Roon (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\bigcup \) No \(\bigcup \)
Prim Prim Prim Staturation (includes of Describe Includes of the primal	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations: Vater Present? Present? The	m of one 2) 32) 4) Aerial Imates Concave S es es es n gauge, in gauge, in	agery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Control of the control of the c	c1) n Living Roon (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5)
Wetland I Prim	Argument Deposits (B5) Inundation Visible on Sparsely Vegetated Coervations: Vater Present?	m of one 2) 32) 4) Aerial Image concave S es es es en gauge, in gaug	agery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Control of Control Reduced Iron Reduction in Urface (C7) In in Remarks In in Remarks	c1) n Living Roon (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\bigcup \) No \(\bigcup \)
Wetland I Prim	Hydrology Indicators ary Indicators (minimul Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Corvations: Vater Present? The Present? T	m of one 2) 32) 4) Aerial Image concave S es es es en gauge, in gaug	agery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Control of Control Reduced Iron Reduction in Urface (C7) In in Remarks In in Remarks	c1) n Living Roon (C4) Tilled Soils	Surface Solution of the content of t	poil Cracks (B6) Patterns (B10) on Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) nic Position (D2) ral Test (D5) ht? Yes \(\bigcup \) No \(\bigcup \)

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 52 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): <u>depression</u> Local relief (concave, convex, none): concave Long: _ Slope (%): <u>0-2%</u> Lat: Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: S3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>20</u> \boxtimes **FACW** 1. Fraxinus pennsylvanica (dying) **Number of Dominant Species** That are OBL, FACW, or FAC: 8 (A) \boxtimes <u>10</u> FAC 2. Acer negundo 3. ____ **Total Number of Dominant** Species Across All Strata: 8 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 30 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>30</u> \boxtimes **FACW** 1. Cornus alba Total % Cover of: Multiply by: <u>15</u> \boxtimes **FAC OBL** species x 1 = 2. Rhamnus cathartica __ x 2 = 3. ____ **FACW** species **FAC** species x 3 =

 \boxtimes

 \boxtimes

 \boxtimes

П

 \boxtimes

= Total Cover

= Total Cover

= Total Cover

FACW

FAC

FAC

FAC

FACU

NI (UPL)

FACW

FACW

FACW

45

<u>40</u>

<u>10</u>

10

8

<u>5</u>

5

5

3

86

15

15 Remarks: (Include photo numbers here or on a separate sheet.) Fresh (wet) meadow and shrub-carr with scattered lowland hardwoods.

FACU species

Column Totals:

UPL species

Hydrophytic

Vegetation

Present?

US Army Corps of Engineers

Herb Stratum (Plot size: 5' radius)

1. Impatiens capensis

3. Rhamnus cathartica

4. Solanum dulcamara

5. Hesperis matronalis

6. Physalis alkekengi

7. Ribes americanum

10. ____

2.

1. Vitis riparia

8. Symphyotrichum lateriflorum

Woody Vine Stratum (Plot size: 30' radius)

2. Cornus alba

No 🗌

_ x 4 =

Prevalence Index = B/A =

☐ 1 - Rapid Test for Hydrophytic Vegetation

☐ 4 - Morphological Adaptations¹ (Provide supporting

data in Remarks or on a separate sheet)

☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic Vegetation Indicators:

□ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

x 5 =

(A)

OIL							<u>'</u>	g Point: <u>52</u>
Profile De	scription: (Describe	to the de	oth needed to doo	ument the ind	icator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Feat	tures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 2/1	100					Loam	
9-16	2.5Y 5/1	80	10YR 5/6	20	C	PL M	Clay loam	
16-28	2.5Y 5/2	85	10YR 5/6	15		PL M	Loamy fine sand	-
10 20	2.01 0/2		10111 0/0					
						•	_ =	
			<u> </u>					
	_		· -					
¹Tyne: C=	Concentration, D=Dep	letion RN	M=Reduced Matrix	MS=Masked S	and Grains		² Location: PL=Pore	Lining M=Matrix
	il Indicators:	71011011, 1111	T TOUGOU MULTIN,	Me Macked C	and Oramo			ematic Hydric Soils³:
	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	54)	☐ Coast Prairie I	
	Histic Epipedon (A2)			☐ Sandy Red	. ,		☐ Dark Surface	
	Black Histic (A3)		_	Stripped M			Iron-Mangane	
	Hydrogen Sulfide (A4)	_		cky Mineral (Dark Surface (TF12)
	Stratified Layers (A5) 2 cm Muck (A10)		_		eyed Matrix (F	-2)	Other (Explain	in Remarks)
	Depleted Below Dark	k Surface	(Δ11)		Matrix (F3) rk Surface (F6	3)		
	Thick Dark Surface (A				Dark Surface		31	
	Sandy Mucky Mineral				oressions (F8		-	ophytic vegetation and logy must be present,
	5 cm Mucky Peat or F	Peat (S3)	_					ed or problematic.
	e Layer (if observed)							
Туре							Hydric Soil Present	? Yes⊠ No 🏻
Dept	th (inches):							
YDROL								
Wetland	Hydrology Indicators	s:						
Prim	nary Indicators (minimu	ım of one	is required; check	<u>all that apply)</u>			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)			Water-Staine	ed Leaves (B	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A	2)		– Aquatic Faur	•	,		Patterns (B10)
\boxtimes	Saturation (A3)	,		_	: Plants (B14)			on Water Table (C2)
	Water marks (B1)			–				Burrows (C8)
	Sediment Deposits (I	B2)	<u>-</u>		,	,		Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	<i>5</i> 2)	<u>-</u>	- -	•	•	` ' 	Stressed Plants (D1)
	Algal Mat or Crust (B	(A)	_ <u>-</u> _	_	Reduction in	` '		hic Position (D2)
	Iron Deposits (B5)	,-,		Thin Muck S		Tilled Colle		tral Test (D5)
		A orial Im		-			FAC-Neu	irai Test (D3)
	Inundation Visible on			_	` '	- \		
Field Ob	Sparsely Vegetated (servations:	Concave	Surface (B8)	Other (Expla	in in Remarks	s)		
		′es □	No ⊠ Depth (i	inches):				
				inches): <u>22</u>				
	n Present?) capillary fringe)	′es ⊠	No Depth (i	inches): <u>0 (at s</u>	<u>urтace)</u>		Wetland Hydrology Preser	nt? Yes⊠ No 🗌
,								
	•		-	rial photos, pre	vious inspect	ions), if av	allable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
Remarks:	nibit 3), and Aerial phot	Us (⊏XIIIX	ı. → <i>)</i> .					
Temarks	•							

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 53 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Lat: Long: _ Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 4 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 75% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>10</u> \boxtimes **FACU** 1. Catalpa sp. (planted) Total % Cover of: Multiply by: <u>1</u> NI (UPL) **OBL** species x 1 = 2. Picea pungens x 2 = 3. _____ **FACW** species **FAC** species x 3 = FACU species x 4 = 11 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>30</u> **FACW** Prevalence Index = B/A = 1. Agrostis gigantea **Hydrophytic Vegetation Indicators:** <u>30</u> \boxtimes **FAC** 2. Poa pratensis 20 \boxtimes FAC 3. Setaria pumila ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>15</u> П **FACU** 4. Glechoma hederacea 3 - Prevalence Index is ≤3.0¹ П <u>15</u> <u>OBL</u> 5. Schoenoplectus pungens ☐ 4 - Morphological Adaptations¹ (Provide supporting <u>5</u> **FAC** data in Remarks or on a separate sheet) 6. Prunella vulgaris ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 3 FAC 7. Plantago major 3 **FACU** 8. Taraxacum officinale

= Total Cover

= Total Cover

<u>NI</u>

Hydrophytic

Vegetation Present?

1

122

0

Remarks: (Include photo numbers here or on a separate sheet.) Atypical (mowed) wetland.

Woody Vine Stratum (Plot size: 30' radius)

9. Carex sp.

10. ____

2. __

No 🗌

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

ofile De	scription: (Describe t	<u> </u>	Juli needed to do		100101 01 001	iiiiiii tiite a	bsence of indicators.)	
Depth	Matrix			Redox Feat	tures		_	
nches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	Texture	Remarks
3	2.5Y 2.5/1	100					Silt loam	
21	10YR 5/2	90	10YR 3/6	10	С	PL M	Sand	
-23	10Y 4/1	80	10YR 4/6	20	С	PL M	Sandy clay loam	
	-		-					
	Concentration, D=Dep	letion, RM	/I=Reduced Matrix	k, MS=Masked S	and Grains		² Location: PL=Pore	
	il Indicators: Histosol (A1)			□ Sandy Gle	yed Matrix (S	34)	Indicators for Proble Coast Prairie I	ematic Hydric Soils ³ :
	Histic Epipedon (A2)		=	Sandy Re) -1)	Dark Surface	
	Black Histic (A3)		_	Stripped M			☐ Iron-Mangane	
	Hydrogen Sulfide (A4)	1		Loamy Mu	cky Mineral (F1)	☐ Very Shallow I	Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	=2)	Other (Explain	in Remarks)
	2 cm Muck (A10)		-	Depleted N		•		
	Depleted Below Dark Thick Dark Surface (A		(A11)		·k Surface (Fo Dark Surface	,		
	Sandy Mucky Mineral				oressions (F8		-	phytic vegetation and
	5 cm Mucky Peat or P		_			• •	-	ogy must be present, ed or problematic.
	e Layer (if observed):						Offices distance	ou or problematio.
Туре							Hydric Soil Present	? Yes⊠ No □
Depti emarks: \$	s5 ???							
emarks: S	S5 ??? OGY							
DROLO	S5 ??? OGY Hydrology Indicators							
DROLO	S5 ??? OGY		is required; check	all that apply)			Secondary Indi	cators (minimum of two required)
DROLO	S5 ??? OGY Hydrology Indicators		is required; check	. all that apply)	ed Leaves (B	9)		cators (minimum of two required) oil Cracks (B6)
DROLO	S5 ??? OGY Hydrology Indicators ary Indicators (minimu	m of one	is required; check		•	9)	Surface S	
DROLO /etland I	OGY Hydrology Indicators hary Indicators (minimu) Surface Water (A1)	m of one	is required; check	Water-Staine Aquatic Faur	na (B13)		Surface S Drainage	oil Cracks (B6)
DROLO /etland I	OGY Hydrology Indicators lary Indicators (minimu Surface Water (A1) High Water Table (A	m of one		Water-Staine Aquatic Faur True Aquatic	na (B13) Plants (B14))	Surface S Drainage	oil Cracks (B6) Patterns (B10)
DROLO /etland I	OGY Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A) Saturation (A3)	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) Plants (B14) Ilfide Odor (C) ;1)	Surface S Drainage Dry-Seaso Crayfish B	poil Cracks (B6) Patterns (B10) on Water Table (C2)
DROLO /etland Prim	OGY Hydrology Indicators hary Indicators (minimulators (Mi	m of one		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz	na (B13) Plants (B14) Ilfide Odor (C cospheres on I) (1) Living Roots	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation	oil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8)
DROLO /etland Prim	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (E	m of one .2)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of	na (B13) Plants (B14) Ilfide Odor (Coopheres on I) C1) Living Roots n (C4)	Surface S Drainage Dry-Seaso Crayfish B s (C3) Stunted or	poil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9)
DROLO Vetland I	OGY Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (E Drift Deposits (B3)	m of one .2)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I	na (B13) Plants (B14) Ilfide Odor (C cospheres on I Reduced Iror Reduction in) C1) Living Roots n (C4)	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Prim	OGY Hydrology Indicators hary Indicators (minimulators (Minimulators (Minimulators (Minimulators (Mater Table (A Saturation (A3)) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4)	32)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck St	na (B13) Plants (B14) Ilfide Odor (C cospheres on I Reduced Iror Reduction in urface (C7)) C1) Living Roots n (C4)	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2)
Prim Section Section	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5)	32) Aerial Ima	Eagery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck Si Gauge or We	na (B13) Plants (B14) Ilfide Odor (Coopheres on I Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) Living Roots n (C4) Tilled Soils	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2)
Prim	DGY Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on	32) Aerial Ima	Eagery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck Si Gauge or We	na (B13) Plants (B14) Ilfide Odor (Coopheres on I Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) Living Roots n (C4) Tilled Soils	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2)
Prim	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Coservations:	32) Aerial Ima	Lagery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck Si Gauge or We	na (B13) Plants (B14) Ilfide Odor (Coopheres on I Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) Living Roots n (C4) Tilled Soils	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2)
Prim Section Section	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C servations: Vater Present?	an of one 32) 4) Aerial Ima Concave S	agery (B7) Curface (B8) C	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck So Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Coopheres on I Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) Living Roots n (C4) Tilled Soils	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) surrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2)
Prim Prim Diagram	OGY Hydrology Indicators hary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated Conservations: Vater Present? Vater Present?	an of one 32) 4) Aerial Ima Concave S (es □	agery (B7) CSurface (B8) CNo Depth (Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck So Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Coopheres on I Reduced Iror Reduction in urface (C7) Illinate (D9) In in Remarks	c1) Living Roots a (C4) Tilled Soils	Surface S Drainage Dry-Seaso Crayfish B s (C3) Saturation Stunted or (C6) Geomorp	poil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Testressed Plants (D1) hic Position (D2) ral Test (D5)
Prim Prim Dield Obs urface W /ater Tal aturation ncludes escribe	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated C servations: Vater Present? In Present? In Present? Yeapillary fringe)	Aerial Imaconcave Series 🖂	aggery (B7) Surface (B8) No Depth (No Depth (Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (Cospheres on I Reduced Iror Reduction in urface (C7) Ell Data (D9) in in Remarks	c1) Living Roots n (C4) Tilled Soils	Surface S Drainage Dry-Seaso Crayfish B Sturation Stunted of Geomorp FAC-Neut	poil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2) ral Test (D5)
Prim Prim Dield Obs urface W /ater Tal aturation ncludes escribe lap (Exh	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated O Servations: Vater Present? In Present? I	Aerial Ima Concave S Yes Yes Yes m gauge, os (Exhibit	agery (B7) C Surface (B8) C No Depth (No Depth (No Depth (nonitoring well, ac it 4).	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla (inches): (inches): 11 (inches): 0 (at si	na (B13) Plants (B14) Ilfide Odor (Coopheres on Interpretation in the coopheres of the c	Living Roots a (C4) Tilled Soils s)	Surface S Drainage Dry-Seaso Crayfish B Saturation Stunted or (C6) FAC-Neut Wetland Hydrology Preser	oil Cracks (B6) Patterns (B10) on Water Table (C2) currows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2) ral Test (D5) http://www.com/com/com/com/com/com/com/com/com/com/
Prim Prim One of the land of	OGY Hydrology Indicators lary Indicators (minimu) Surface Water (A1) High Water Table (A Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on Sparsely Vegetated O Servations: Vater Present? In Present? I	Aerial Ima Concave S Yes m gauge, I os (Exhibiteres starf	agery (B7) Surface (B8) No Depth (No Depth (No Depth (No Depth (14). ting at 3 inches	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron I Thin Muck Si Gauge or We Other (Expla (inches): (inches): 11 (inches): 0 (at si	na (B13) Plants (B14) Ilfide Odor (Coopheres on Interpretation in the coopheres of the c	Living Roots a (C4) Tilled Soils s)	Surface S Drainage Dry-Seaso Crayfish B Saturation Stunted or (C6) FAC-Neut Wetland Hydrology Preser	poil Cracks (B6) Patterns (B10) on Water Table (C2) Furrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) hic Position (D2) ral Test (D5) The Yes No 1

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Applicant/Owner: __ State: WI Sampling Point: 54 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 2 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 67% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>25</u> **FAC** Prevalence Index = B/A = 1. Setaria pumila <u>FACU</u> **Hydrophytic Vegetation Indicators:** \boxtimes <u>18</u> 2. Cirsium arvense <u>15</u> \boxtimes **FACW** 3. Verbena hastata ☐ 1 - Rapid Test for Hydrophytic Vegetation **FACU** □ 2 - Dominance Test is >50% <u>10</u> П 4. Ambrosia artemisiifolia 3 - Prevalence Index is ≤3.0¹ <u>10</u> <u>OBL</u> 5. Schoenoplectus pungens ☐ 4 - Morphological Adaptations¹ (Provide supporting 8 UPL data in Remarks or on a separate sheet) 6. Daucus carota ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 8 **FACW** 7. Phalaris arundinacea 5 **FACU** 8. Oenothera biennis 3 **FACU** ¹ Indicators of hydric soil and wetland hydrology must 9. Symphyotrichum pilosum

= Total Cover

= Total Cover

3

105

0

FAC

Hydrophytic

Vegetation Present?

Remarks: (Include photo numbers here or on a separate sheet.) Edge of mowed lawn/gravel driveway.

10. Xanthium strumarium

2.

Woody Vine Stratum (Plot size: 30' radius)

No 🗌

Be present, unless disturbed or problematic.

Yes 🛛

SOIL Sampling Point: <u>54</u>

	scription: (Describe t	o the depth r	needed to docur	nent the ind	icator or con	firm the a	absence of indicators.)	
Depth	Matrix			Redox Fea	tures		<u></u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/1	50					Silt loam	with 50% mulch/gravel fill
12+								Refusal: Gravel fill
							- · <u></u>	
				_	-		-	
				-				-
¹Type: C=	Concentration, D=Dep	letion, RM=Re	educed Matrix, M	S=Masked S	and Grains		² Location: PL=Po	re Lining, M=Matrix
-	I Indicators:		_					olematic Hydric Soils³:
	Histosol (A1)		<u> </u>	Sandy Gle Sandy Re	yed Matrix (S	4)	Coast Prairie	
	Histic Epipedon (A2) Black Histic (A3)		<u> </u>	Stripped M			Dark Surface	e (57) lese Masses (F12)
	Hydrogen Sulfide (A4)		-		cky Mineral (F	- 1)		Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F			in in Remarks)
	2 cm Muck (A10)			Depleted I	Matrix (F3)	•	<u> </u>	,
	Depleted Below Dark	, ,			rk Surface (F6			
	Thick Dark Surface (A	,			Dark Surface (³ Indicators of Hyd	rophytic vegetation and
	Sandy Mucky Mineral			Redox De	pressions (F8))		ology must be present,
	5 cm Mucky Peat or P						Unless distur	bed or problematic.
	Layer (if observed): Gravel fill						Hydric Soil Preser	nt? Yes □ No ⊠
	n (inches): <u>12</u>						Tryunic Son Freser	it: 165 HO 🖂
	No hydric soil indicat	tors observe	ed.					
<u>I</u>								
IYDROLO	OGY							
Wetland I	Hydrology Indicators	:						
Prim	ary Indicators (minimu	m of one is re	quired; check all	that apply)			Secondary In	dicators (minimum of two required)
l п	Surface Water (A1)		П	Water-Staine	ed Leaves (B9)	☐ Surface	Soil Cracks (B6)
	High Water Table (A2	P)		Aquatic Faur	`	,		e Patterns (B10)
	Saturation (A3)	- /			: Plants (B14)			son Water Table (C2)
	Water marks (B1)				ılfide Odor (C	1)		Burrows (C8)
	Sediment Deposits (E	22)			zospheres on	,		on Visible on Aerial Imagery (C9)
	Drift Deposits (B3)	JZ)			Reduced Iron	-		or Stressed Plants (D1)
		4)						
무	Algal Mat or Crust (B4	4)			Reduction in 1	illed Solls	` ' 	phic Position (D2)
ᆜ	Iron Deposits (B5)			Thin Muck S	, ,		FAC-Ne	utral Test (D5)
	Inundation Visible on	_	· · · —	Gauge or Wo				
Field Ohe	Sparsely Vegetated C	Concave Surfa	ace (B8)	Other (Expla	in in Remarks)		
	servations:	N	Don'th (in a	I \				
		es No		hes):				
		es No		hes):				
Saturation		es No	□ Depth (include)	hes):			Wetland Hydrology Pres	ent? Yes ☐ No ⊠
,	capillary fringe)							
	Recorded Data (strean	n gauge, mon	itoring well, aeria	I photos, pre	vious inspecti	ons), if av	ailable: Topo Maps (Exhib	t 1), WWI Map (Exhibit 2), Soils
	hit 2) and Andeles	oo /Eukikit 4\						
Map (Exh	ibit 3), and Aerial photo			lone perse	nt appual s-	ohobilit.	floodplain of Dia Musica	ro Lako hut goomorphia
Map (Exhi	The sample site lie	s within the	FEMA-mapped	-	-	-		go Lake, but geomorphic
Map (Exhi	The sample site lie	s within the	FEMA-mapped	-	-	-	floodplain of Big Muskeุ rial. No wetland hydrolooุ	

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 55 Applicant/Owner: ___ State: WI Section, Township, Range: NE 1/4 Section 14, T5N, R20E Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Lat: Long: _ Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: T3K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>30</u> \boxtimes **FAC** 1. Populus tremuloides **Number of Dominant Species** That are OBL, FACW, or FAC: <u>6</u> (A) 2. **Total Number of Dominant** Species Across All Strata: 6 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 30 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>40</u> \boxtimes **FACW** 1. Frangula alnus Total % Cover of: Multiply by: <u>40</u> \boxtimes **FAC OBL** species x 1 = 2. Rhamnus cathartica 5 **FAC** __ x 2 = 3. Populus tremuloides **FACW** species 4. ____ **FAC** species x 3 = FACU species _ x 4 = 85 = Total Cover UPL species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>50</u> **FAC** 1. Rhamnus cathartica Prevalence Index = B/A = **FACW Hydrophytic Vegetation Indicators:** <u>30</u> \boxtimes 2. Frangula alnus 15 **FACU** 3. Circaea canadensis ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% <u>10</u> П **FACW** 4. Symphyotrichum lateriflorum 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FAC** 5. Carex grisea ☐ 4 - Morphological Adaptations¹ (Provide supporting 6. ____ data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____

П

 \boxtimes

= Total Cover

110

10

10

Remarks: (Include photo numbers here or on a separate sheet.) Shrub-carr (buckthorn thicket).

= Total Cover

FACW

US Army Corps of Engineers

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2. ____

1. Vitis riparia

No 🗌

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

Vegetation

Present?

OIL								g Point: <u>55</u>
Profile Des	scription: (Describe t	o the dep	oth needed to do	cument the indi	icator or cor	nfirm the	absence of indicators.)	
Depth	Matrix			Redox Feat	ures			
(inches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/1	100					Silt loam	
6-18	5Y 5/2	90	10YR 5/6	10	C	PL M	Clay loam	
18-20	N 2.5/	95	7.5YR 3/4			PL M	Mucky loam	_
20-26	2.5Y 5/2	92	10YR 4/6			PL M	Loamy sand	-
20-20	2.51 3/2	- 32	10110 4/0			- L IVI	Loanly Sand	
			· -					
							_	
¹Typo: C=	Concentration, D=Dep	lotion PM	1-Poducod Matrix	MS-Maskad S	and Grains		² Location: PL=Pore	Lining M-Matrix
, ·	I Indicators:	ielion, Kiv	i-Reduced Mainx	, IVIS-IVIASKEU S	and Grains			ematic Hydric Soils ³ :
_	Histosol (A1)			☐ Sandy Gle	yed Matrix (S	S4)	Coast Prairie	
	Histic Epipedon (A2)		-	☐ Sandy Red		,	☐ Dark Surface	
	Black Histic (A3)		-	Stripped M	latrix (S6)		☐ Iron-Mangane	se Masses (F12)
	Hydrogen Sulfide (A4)	1	_	Loamy Mu	cky Mineral (F1)	☐ Very Shallow	Dark Surface (TF12)
	Stratified Layers (A5)		_		yed Matrix (F	=2)	Other (Explain	in Remarks)
	2 cm Muck (A10)		_	Depleted I				
	Depleted Below Dark		(A11)		k Surface (F	,		
	Thick Dark Surface (A	,			Oark Surface	, ,		phytic vegetation and
	Sandy Mucky Mineral	` '	-	Kedox Deb	oressions (F8	5)	•	ogy must be present,
	5 cm Mucky Peat or P						Unless disturbe	ed or problematic.
Type	Layer (if observed):						Headala Oall Bassanii	No. No. D
• .	 n (inches):						Hydric Soil Present	? Yes⊠ No □
Remarks:	1 (IIICHES)							
i terriarks.								
IYDROLO	nev							
	Hydrology Indicators							
	-							
Prim	ary Indicators (minimu	m of one	is required; check	all that apply)			Secondary Indi	cators (minimum of two required)
	Surface Water (A1)] Water-Staine	ed Leaves (B	9)	☐ Surface S	oil Cracks (B6)
	High Water Table (A2	2)		Aquatic Faun	na (B13)		☐ Drainage	Patterns (B10)
\boxtimes	Saturation (A3)			 True Aquatic	Plants (B14))	Dry-Seas	on Water Table (C2)
	Water marks (B1)] Hydrogen Su				Burrows (C8)
	Sediment Deposits (E	32)		_	·	-	 ·	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)) <u>_</u>		Presence of I		_		Stressed Plants (D1)
		4)	<u>- <u>-</u></u>	_		` '		
<u> </u>	Algal Mat or Crust (B	4)				Tilled Solls	· · · —	hic Position (D2)
	Iron Deposits (B5)						_ ⊠ FAC-Neu	tral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)	Gauge or We	ell Data (D9)			
	Sparsely Vegetated C	Concave S	Surface (B8)	Other (Explai	in in Remark	s)		
Field Obs	ervations:							
Surface W	/ater Present? Y	es 🗌	No 🛛 Depth	(inches):				
Water Tak	ole Present? Y	es 🛚	No 🗌 Depth	(inches): <u>23</u>				
Saturation	Present? Y	es 🛛	No Depth	(inches): <u>10</u>			w.a	
(includes	capillary fringe)	_		,			Wetland Hydrology Preser	nt? Yes⊠ No □
Describe I	Recorded Data (stream	n dallae i	monitoring well a	erial nhotos prev	vious inspect	tions) if a	vailable: Tono Mans (Evhibit	1), WWI Map (Exhibit 2), Soils
	ibit 3), and Aerial photo		-	chai photos, pre	vious irispect	, II av	aliable. Topo Maps (Extibit	1,, VVVVI IVIAP (EXHIBIT Z), SUIS
			•	the FFMA-mai	pped one-ne	ercent-ar	nnual-probability floodplain	of Big Muskego Lake
i tomans.	The sample site lie	o iii a de	Processor Within	ano i Elviza-ilia	pped one-p	or ocrit-ar	maai-probability liboupiali	or big Musicogo Lane.

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 09/05/2019 Sampling Point: 56 Applicant/Owner: __ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): slight hillslope Local relief (concave, convex, none): linear Datum: _ Slope (%): <u>0-2%</u> Lat: Long: _ NWI classification: None Soil Map Unit Name: Wet alluvial land (Ww) Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? **⊠v**oc

Hydric Soils Present?		within a We	tland?	☐ Yes	
Remarks: 90-day antecedent precipitation is normal.					
EGETATION – Use scientific names of plants.					
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Rhamnus cathartica	<u>30</u>	\boxtimes	<u>FAC</u>	Number of Dominant Species	
2. Populus tremuloides	<u>10</u>	\boxtimes	<u>FAC</u>	That are OBL, FACW, or FAC: 4 (A)	
3				Total Number of Dominant	
4				Species Across All Strata: <u>4</u> (B)	
5				Percent of Dominant Species	
	<u>40</u>	= Total Co	ver	That Are OBL, FACW, or FAC: 100% (A/B)	
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:	
1. Rhamnus cathartica	<u>70</u>	\boxtimes	<u>FAC</u>	Total % Cover of: Multiply by:	
2. <u>Frangula alnus</u>	<u>10</u>		<u>FACW</u>	OBL species x 1 =	
3. <u>Viburnum lentago</u>	<u>5</u>		<u>FAC</u>	FACW species x 2 =	
4				FAC species x 3 =	
5				FACU species x 4 =	
	<u>85</u>	= Total Co	ver	UPL species x 5 =	
Herb Stratum (Plot size: 5' radius)				Column Totals: (A) (I	B)
1. Rhamnus cathartica	<u>60</u>	\boxtimes	<u>FAC</u>	Prevalence Index = B/A =	
2. <u>Circaea canadensis</u>	<u>10</u>		<u>FACU</u>	Hydrophytic Vegetation Indicators:	
3				☐ 1 - Rapid Test for Hydrophytic Vegetation	
4				□ 2 - Dominance Test is >50%	
5				☐ 3 - Prevalence Index is ≤3.0¹☐ 4 - Morphological Adaptations¹ (Provide supportin	. ~
6				data in Remarks or on a separate sheet)	y
7				☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain))
8					
9				¹ Indicators of hydric soil and wetland hydrology must	:
				Be present, unless disturbed or problematic.	
10	70	= Total Co	——		
West had the Otenham (Distance 200 and the)	<u>70</u>	- 10tai 00	VCI		
Woody Vine Stratum (Plot size: 30' radius)				Hydrophytic	
1		Ш		Vegetation Present? Yes ⊠ No □	
2		<u>∐</u> T-4-1 O			
Demonstra (technological estate mone)	<u>0</u>	= Total Co	ver		
Remarks: (Include photo numbers here or on a separate shee	t.) Bucktnorn	ипскет.			

SOIL Sampling Point: <u>56</u>

rofile Des	scription: (Describe to							
Depth	Matrix		- <u></u>	Redox Feat			<u> </u>	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-19	10YR 3/2	100					Sandy loam	
9-24	10YR 5/2	95	10YR 4/6	5	С	PL M	Loamy sand	
			'					-
							-	
			,					
• •	Concentration, D=Depl	etion, RM	1=Reduced Matrix, M	IS=Masked S	and Grains		² Location: PL=Por	
-	il Indicators: Histosol (A1)		Г] Sandy Gle	yed Matrix (S	:4)	Indicators for Prob ☐ Coast Prairie	ematic Hydric Soils ³ :
	Histic Epipedon (A2)		<u> </u>	Sandy Gle Sandy Red) 4)	Dark Surface	
	Black Histic (A3)		一	Stripped M				ese Masses (F12)
	Hydrogen Sulfide (A4)			Loamy Mu	cky Mineral (F1)	☐ Very Shallow	Dark Surface (TF12)
	Stratified Layers (A5)				eyed Matrix (F	⁻ 2)	Other (Explai	n in Remarks)
_	2 cm Muck (A10)			Depleted N		•		
	Depleted Below Dark S Thick Dark Surface (A ²	,	\11) <u> </u>		rk Surface (F6 Dark Surface	,		
	Sandy Mucky Mineral (,	F		oressions (F8			ophytic vegetation and
	5 cm Mucky Peat or Pe	` '			0100010110 (1 0	·)		ology must be present, ed or problematic.
	Layer (if observed):	<i>jat</i> (86)					Offices distant	od or problematio.
	:						Hydric Soil Present	? Yes ☐ No ⊠
	h (inches):							
	No hydric soil indicat	ors obse	erved.					
	No hydric soil indicat	ors obse	erved.				'	
emarks: N	No hydric soil indicat OGY Hydrology Indicators:	:		that analy)			Considerable	
emarks: N	No hydric soil indicat	:		that apply)				icators (minimum of two required)
emarks: N	No hydric soil indicat OGY Hydrology Indicators:	:	is required; check all	Water-Staine	ed Leaves (B	9)		icators (minimum of two required)
emarks: N	OGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2	: m of one	is required; check all	Water-Staine	na (B13)	,	Surface S	Soil Cracks (B6) Patterns (B10)
emarks: N	OGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1)	: m of one	is required; check all	Water-Staine Aquatic Faur True Aquatic	na (B13) : Plants (B14)	, 1	Surface S	Soil Cracks (B6)
OROLO Wetland I	OGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2	: m of one	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) : Plants (B14) ulfide Odor (C	:1)	Surface S Drainage Dry-Seas Crayfish	Soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
DROLO Wetland I	OGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3)	: m of one∃	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) : Plants (B14)	:1)	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio	Soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
DROLO Wetland I	OGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1)	: m of one∃	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	na (B13) : Plants (B14) ulfide Odor (C	:1) n Living Ro	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio	Soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8)
DROLO Wetland I	OGY Hydrology Indicators: ary Indicators (Minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B	: m of one :	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	na (B13) Plants (B14) Ilfide Odor (C zospheres or	:1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted c	Soil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
DROLO Wetland I	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3)	: m of one :	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror	:1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
DROLO Wetland I	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4	: m of one i	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I	na (B13) Plants (B14) Ilfide Odor (Consequence of Reduced Iron Reduction in furface (C7)	:1) n Living Ro n (C4)	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2)
/DROLO Wetland I	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A	m of one	is required; check all	Water-Stained Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or We	na (B13) Plants (B14) Ilfide Odor (Consequence of Reduced Iron Reduction in furface (C7)	:1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2)
DROLO Wetland I	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated C Servations:	m of one 2) Aerial Ima	is required; check all	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2)
Prim	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Coservations:	m of one	is required; check all	Water-Stained Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron In Thin Muck Sugauge or We Other (Explants):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2)
Prim. Prim. Prim. Field Obs Surface W	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Corvations: Vater Present? Veter Present?	m of one (2) Aerial Imagencave Ses es	is required; check all	Water-Stained Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	:1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2)
Prim. Prim. Field Obs Surface W Water Tab	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Corvations: Vater Present? Veter Present?	m of one) Aerial Imaconcave S es es ============================	is required; check all	Water-Stained Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or We Other (Explain	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9)	c1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted co (C6) Geomorp	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2) tral Test (D5)
Primal Pr	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Corrections: Vater Present? The Pr	m of one Aerial Ima concave S es es es an gauge, i	is required; check all	Water-Stained Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Sugauge or We Other (Explainment):	na (B13) Plants (B14) Ilfide Odor (Control (Cont	c1) n Living Ro n (C4) Tilled Soils	Surface S Drainage Dry-Seas Crayfish ots (C3) Saturatio Stunted of Geomorp FAC-Neu Wetland Hydrology Prese	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2) tral Test (D5)
Primarks: No Prima	DGY Hydrology Indicators: ary Indicators (minimur Surface Water (A1) High Water Table (A2 Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Coservations: Vater Present? Present? The Present (Stream (B4)	m of one Aerial Ima concave S es es es so (Exhibi	is required; check all	Water-Stained Aquatic Faur True Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Sugauge or We Other (Explantable):ches):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	ic1) In Living Ro In (C4) Tilled Soils In (C4) Tilled Soils	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturatio Stunted of Geomorp FAC-Neu Wetland Hydrology Prese	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2) tral Test (D5)
Prim.	DGY Hydrology Indicators: ary Indicators (minimur) Surface Water (A1) High Water Table (A2) Saturation (A3) Water marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on a Sparsely Vegetated Corvations: Vater Present? Present? The Present? Secorded Data (stream ibit 3), and Aerial photod The sample site is interested.	m of one Aerial Ima concave S es es es sign gauge, i os (Exhibi in the FE	is required; check all	Water-Stained Aquatic Faur True Aquatic Faur True Aquatic Hydrogen State Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or We Other (Explantable):	na (B13) Plants (B14) Ilfide Odor (C zospheres or Reduced Iror Reduction in urface (C7) ell Data (D9) in in Remarks	ict) In Living Ro In (C4) Tilled Soils Is) Ions), if availity floodp	Surface S Drainage Dry-Sease Crayfish ots (C3) Saturatio Stunted of Geomorp FAC-Neu Wetland Hydrology Prese	Coil Cracks (B6) Patterns (B10) on Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) or Stressed Plants (D1) hic Position (D2) tral Test (D5) Interpretation of the property o

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 09/05/2019 Applicant/Owner: _ State: WI Sampling Point: 57 Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): linear Long: _ Slope (%): 0-2% Datum: Lat: Soil Map Unit Name: Ogden muck (Oc) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes \boxtimes No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>35</u> \boxtimes **FAC** 1. Populus deltoides **Number of Dominant Species** That are OBL, FACW, or FAC: 4 (A) \boxtimes <u>10</u> **FACU** 2. Picea glauca 3. ____ **Total Number of Dominant** Species Across All Strata: <u>5</u> (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 80% (A/B) <u>45</u> Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>80</u> \boxtimes **FAC** 1. Rhamnus cathartica Total % Cover of: Multiply by: <u>5</u> **FACW** 2. Fraxinus pennsylvanica **OBL** species _ x 1 = 3. ____ **FACW** species x 2 = **FAC** species x 3 = FACU species x 4 = 85 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>35</u> **FAC** Prevalence Index = B/A = 1. Rhamnus cathartica **Hydrophytic Vegetation Indicators:** <u>10</u> \boxtimes **FAC** 2. Toxicodendron radicans 5 **FACW** 3. Symphyotrichum lateriflorum ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ П 5. ____ ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____

Remarks: (Include photo numbers here or on a separate sheet.) All Fraxinus pennsylvanica (FACW) trees in the sample plot were dead. Buckthorn thicket with hardwoods.

<u>50</u>

0

 \Box

= Total Cover

= Total Cover

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2.

No 🗌

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

SOIL Sampling Point: <u>57</u>

Profile De	scription: (Describe t	o the depth	needed to do	cument the in	dicator or cor	nfirm the a	absence of indicators.)	
Depth	Matrix			Redox Fe	atures			
(inches)	Color (moist)	%	Color (mois	t) %	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 3/1	100					Silt loam	
10-17	2.5Y 5/2	100					Loamy sand	
17-18	N 2.5/	100					Muck	
18-25	10YR 2/1	100					Loamy sand	
-							0	
	Concentration, D=Depolil Indicators:	letion, RM=l	Reduced Matri	x, MS=Masked	Sand Grains		² Location: PL=Pore	Lining, M=Matrix ematic Hydric Soils³:
	Histosol (A1)			□ Sandv G	leyed Matrix (S	64)	Coast Prairie	
	Histic Epipedon (A2)				edox (S5)	,	Dark Surface	
	Black Histic (A3)				Matrix (S6)		Iron-Mangane	
	Hydrogen Sulfide (A4)	1			lucky Mineral (Dark Surface (TF12)
	Stratified Layers (A5)				Gleyed Matrix (F	=2)	Other (Explain	in Remarks)
	2 cm Muck (A10) Depleted Below Dark	Surface (A1	1)		l Matrix (F3) ark Surface (F6	6)		
	Thick Dark Surface (A	•	')		Dark Surface	,	3Indicators of Lludro	unbutic vegetation and
	Sandy Mucky Mineral				epressions (F8			ophytic vegetation and ogy must be present,
	5 cm Mucky Peat or P	eat (S3)					-	ed or problematic.
Restrictiv	e Layer (if observed):							
	e:						Hydric Soil Present	? Yes ☐ No ☒
	th (inches): No hydric soil indica							
IYDROL	ngy							
	Hydrology Indicators	:						
	nary Indicators (minimu		reauired: checl	k all that apply)			Secondary Indi	cators (minimum of two required)
				_		0)		
	Surface Water (A1))\			ned Leaves (B	9)		oil Cracks (B6)
	High Water Table (A2)	2)		Aquatic Fa				Patterns (B10)
<u> </u>	Saturation (A3)				tic Plants (B14)			on Water Table (C2)
	Water marks (B1)	201			Sulfide Odor (C	-		Surrows (C8)
	Sediment Deposits (E	32)	_		hizospheres or	_		Visible on Aerial Imagery (C9)
<u> </u>	Drift Deposits (B3)	4)	_		of Reduced Iron			Stressed Plants (D1)
	Algal Mat or Crust (B	4)	_		Reduction in	Tilled Solls	<u>—</u>	nic Position (D2)
	Iron Deposits (B5)	A! - 1 1			Surface (C7)		FAC-Neut	ral Test (D5)
<u>-</u>	Inundation Visible on	_	- · · · -		Vell Data (D9)	,		
Field Oh	Sparsely Vegetated (servations:	concave Sur	face (B8) L	_ Other (Exp	lain in Remark	s)		
		es 🗌 No	o ⊠ Depth	(inches):				
			•	(inches):	 '			
				(inches):				
	capillary fringe)	C3 [] 14C	и М рерш	(11101103).	_		Wetland Hydrology Preser	nt? Yes ☐ No ☒
Describe	Recorded Data (stream	n gauge mo	nitoring well a	erial photos pi	revious inspect	tions) if av	vailable: Topo Maps (Exhibit	1), WWI Map (Exhibit 2), Soils
	nibit 3), and Aerial photo		-	ioriai priotos, pi	TOVIOUS INSPECT	iiono), ii av	allabio. Topo Mapo (Exhibit	1), ***** Wap (Exhibit 2), 00110
Remarks	: No wetland hydrolo	ogy indicate	ors observed					

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 58 Applicant/Owner: _ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Ogden muck (Oc) NWI classification: T3K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>15</u> \boxtimes **FAC** 1. Rhamnus cathartica **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) <u>15</u> Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>65</u> \boxtimes **FAC** 1. Rhamnus cathartica Total % Cover of: Multiply by: <u>10</u> **FACW** 2. Fraxinus pennsylvanica **OBL** species _ x 1 = 3. ____ **FACW** species x 2 = **FAC** species x 3 = FACU species x 4 = 75 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>40</u> **FAC** Prevalence Index = B/A = 1. Rhamnus cathartica **Hydrophytic Vegetation Indicators:** <u>5</u> **FAC** 2. Carex grisea ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ П 5. ____ ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____

Remarks: (Include photo numbers here or on a separate sheet.) All Fraxinus pennsylvanica (FACW) trees are dead. Shrub-carr (buckthorn thicket).

<u>45</u>

0

П

= Total Cover

= Total Cover

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2. __

No 🗌

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

OIL) Point: <u>58</u>
Profile De	scription: (Describe t	to the dep	oth needed to	docun	nent the indi	cator or con	firm the	absenc	e of indicators.)	
Depth	Matrix				Redox Feat	ures				
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²		Texture	Remarks
0-9	N 2.5/	100		· · ·				Silt lo	pam	
9-15	2.5Y 2.5/1	95	7.5YR 3/3		5		PL M		y loam	
15-25	10Y 5/1	80	10YR 5/6		20		PL M	Clay		
13-23	101 3/1		10110 3/0					Clay	loani	
	· -	-	-							
	.	-						_	_	
	· 		-							
1Typo: C-	Concentration, D=Dep	lotion PM	1-Poducod M	atrix M	S-Mackad S	and Grains			² Location: PL=Pore	Lining M-Matrix
_ , .	il Indicators:	detion, raiv	i-iteaucea ivi	auix, ivi	o-iviaskeu o	and Grains			Indicators for Proble	<u> </u>
	Histosol (A1)				Sandy Glev	ed Matrix (S	4)		Coast Prairie R	
	Histic Epipedon (A2)				 Sandy Red		,		Dark Surface (
	Black Histic (A3)				Stripped Ma	atrix (S6)			☐ Iron-Manganes	se Masses (F12)
	Hydrogen Sulfide (A4))				cky Mineral (F	-			Oark Surface (TF12)
	Stratified Layers (A5)					yed Matrix (F	2)		Other (Explain	in Remarks)
	2 cm Muck (A10)				Depleted M					
	Depleted Below Dark	•	A11)	井		k Surface (F6	•			
	Thick Dark Surface (Sandy Mucky Mineral					ark Surface (ressions (F8				phytic vegetation and
	5 cm Mucky Peat or P				_ Nedox Dep	iressions (i o	,			ogy must be present, d or problematic.
	e Layer (if observed):	. ,							Offices disturbe	d of problematic.
Туре									Hydric Soil Present?	Yes⊠ No □
	h (inches):								riyuric Joh r resent:	ies 🖂 No 🗀
Remarks:	· /							Į.		
HYDROL	OGY									
Wetland	Hydrology Indicators	:								
Prim	ary Indicators (minimu	m of one	is required; ch	eck all	that apply)				Secondary Indic	cators (minimum of two required)
	Surface Water (A1)				Water-Staine	nd Lagyas /B	20)		□ Surface Sc	oil Cracks (B6)
	• • •	2)					19)			` '
	High Water Table (A2	<u>2)</u>			Aquatic Faun	,				Patterns (B10)
	Saturation (A3)				True Aquatic					on Water Table (C2)
<u> </u>	Water marks (B1)				Hydrogen Su					urrows (C8)
	Sediment Deposits (E	32)			Oxidized Rhiz	zospheres on	Living Ro	oots (C3) <u> </u>	Visible on Aerial Imagery (C9)
	Drift Deposits (B3)				Presence of F	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
	Algal Mat or Crust (B	4)			Recent Iron F	Reduction in 1	Filled Soils	s (C6)	_⊠ Geomorph	nic Position (D2)
	Iron Deposits (B5)				Thin Muck Su	ırface (C7)				ral Test (D5)
	Inundation Visible on	Aerial Ima	agery (B7)		Gauge or We	ll Data (D9)				
	Sparsely Vegetated (Concave S	Surface (B8)		Other (Explai	n in Remarks	s)			
Field Obs	servations:		· /		<u> </u>		,			
Surface V	Vater Present? Y	es 🗌	No 🛛 De	oth (inc	hes):					
Water Ta	ble Present? Y				hes): <u>23.5</u>					
					hes): <u>0 (at su</u>	ırface)				
	capillary fringe)	CO 🔼		Jul (1110	1100). <u>0 (at oc</u>	<u>aridoo j</u>		Wetlai	nd Hydrology Presen	t? Yes⊠ No □
,				11	ll		\ : f		Tana Mana / Euclishit 4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Recorded Data (strear iibit 3), and Aerial phot		-	ıı, aerıa	i pnotos, prev	lous inspecti	ons), it av	vallable:	Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils
Remarks:	· · · · · · · · · · · · · · · · · · ·	OG (EVI IIDI	· · · / / .							
inciliarits.										

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 59 Applicant/Owner: _ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): dredged channel Local relief (concave, convex, none): linear, concave Slope (%): 0-2% Lat: Long: _ Datum: Soil Map Unit Name: Ogden muck (Oc) NWI classification: W0Hx Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No Remarks: 90-day antecedent precipitation is normal. VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) Total % Cover of: Multiply by: 2. ____ **OBL** species x 1 = x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 0 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes 5 **OBL** Prevalence Index = B/A = 1. Lemna minor **Hydrophytic Vegetation Indicators:** <u>5</u> \boxtimes **OBL** 2. Persicaria amphibia <u>3</u> \boxtimes **FACW** 3. Persicaria lapathifolia ☐ 1 - Rapid Test for Hydrophytic Vegetation 2 □ 2 - Dominance Test is >50% П OBL 4. Ranunculus sceleratus 3 - Prevalence Index is ≤3.0¹ П 5. ☐ 4 - Morphological Adaptations¹ (Provide supporting П data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ ¹ Indicators of hydric soil and wetland hydrology must

= Total Cover

<u>15</u>

0

= Total Cover

Remarks: (Include photo numbers here or on a separate sheet.) Shallow marsh and open water.

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2. ___

No 🗌

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

SOIL Sampling Point: 59

	ed to document the indicator or confirm the	absence of indicators.)
Depth Matrix	Redox Features	
	or (moist) % Type ¹ Loc ²	Texture Remarks
		-
Type: C=Concentration, D=Depletion, RM=Reduce	ed Matrix, MS=Masked Sand Grains	² Location: PL=Pore Lining, M=Matrix
Hydric Soil Indicators:	Constanting Character Matrix (CA)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2)	Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Coast Prairie Redox (A16) Dark Surface (S7)
Black Histic (A3)	Stripped Matrix (S6)	☐ Iron-Manganese Masses (F12)
☐ Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	☐ Very Shallow Dark Surface (TF12)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
2 cm Muck (A10)	Depleted Matrix (F3)	<u> </u>
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	³ Indicators of Hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		Unless disturbed or problematic.
Restrictive Layer (if observed): Type:		Hydric Soil Present? Yes ⊠ No □
Depth (inches):		nyunc son Fresent: Tes 🖂 🔞 🖂
YDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required	d; check all that apply)	Secondary Indicators (minimum of two required)
	d; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required		
Primary Indicators (minimum of one is required Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Primary Indicators (minimum of one is required 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) Crayfish Burrows (C8)
Primary Indicators (minimum of one is required 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)
Primary Indicators (minimum of one is required 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 F	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)
Primary Indicators (minimum of one is required 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 F	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)
Primary Indicators (minimum of one is required 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 F □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled So	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) Geomorphic Position (D2)
Primary Indicators (minimum of one is required 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 F □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled So □ 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) Geomorphic Position (D2)
Primary Indicators (minimum of one is required 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 F □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled So □ 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) Geomorphic Position (D2)
Primary Indicators (minimum of one is required 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 (B	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living F □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled So □ 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) Geomorphic Position (D2)
Primary Indicators (minimum of one is required 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 (BField Observations:	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living F □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled So □ 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) Geomorphic Position (D2)
Primary Indicators (minimum of one is required 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 (BField Observations: Surface Water Present? Yes No	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living Fauna (C4) □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled Soaauge or Well Data (D9) □ Other (Explain in Remarks) Depth (inches): 4	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (minimum of one is required 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 (BField Observations: Surface Water Present? Yes No	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living Fauna (C4) □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled Soaal (C7) □ Gauge or Well Data (D9) □ Other (Explain in Remarks) Depth (inches): 4 Depth (inches):	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) Geomorphic Position (D2)
Primary Indicators (minimum of one is required 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 (BField Observations: Surface Water Present? Yes No Saturation Present?	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living Fauna (C4) □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled Soal (C7) □ Gauge or Well Data (D9) □ Other (Explain in Remarks) Depth (inches): 4 Depth (inches): □ Depth (inches)	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) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (minimum of one is required 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 (BField Observations: Surface Water Present? Yes No Saturation Present? Yes Saturation Present?	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living For Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled Soo Thin Muck Surface (C7) □ Gauge or Well Data (D9) □ Other (Explain in Remarks) Depth (inches): 4 Depth (inches): Depth (inches): g well, aerial photos, previous inspections), if 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) Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Primary Indicators (minimum of one is required 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 (BField Observations: Surface Water Present? Yes No Saturation Present? Yes Saturation Pr	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living For Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled Soo Thin Muck Surface (C7) □ Gauge or Well Data (D9) □ Other (Explain in Remarks) Depth (inches): 4 Depth (inches): Depth (inches): g well, aerial photos, previous inspections), if 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) Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No
Primary Indicators (minimum of one is required 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 (BField Observations: Surface Water Present? Yes No Saturation Present? Yes Saturation Present?	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ True Aquatic Plants (B14) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres on Living For Presence of Reduced Iron (C4) □ Recent Iron Reduction in Tilled Soo Thin Muck Surface (C7) □ Gauge or Well Data (D9) □ Other (Explain in Remarks) Depth (inches): 4 Depth (inches): Depth (inches): g well, aerial photos, previous inspections), if 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) Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present? Yes No

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 60 Applicant/Owner: ___ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NW 1/4 Section 13, T5N, R20E Landform (hillslope, terrace, etc.): shoulder slope Local relief (concave, convex, none): convex Long: _ Slope (%): <u>0-2%</u> Lat: Datum: Soil Map Unit Name: Ogden muck (Oc) NWI classification: T3K/W0Hx Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. ____ **Total Number of Dominant** Species Across All Strata: 4 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 75% (A/B) 0 Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>75</u> \boxtimes **FAC** 1. Rhamnus cathartica Total % Cover of: Multiply by: <u>40</u> \boxtimes **FACU** 2. Zanthoxyllum americanum **OBL** species x 1 = 5 **FACW** x 2 = 3. Fraxinus pennsylvanica **FACW** species 4. ____ **FAC** species x 3 = FACU species x 4 = 120 = Total Cover UPL species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u>60</u> **FAC** Prevalence Index = B/A = 1. Rhamnus cathartica <u>FACU</u> **Hydrophytic Vegetation Indicators:** <u>15</u> 2. Zanthoxyllum americanum 10 FAC 3. Equisetum arvesne ☐ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% 5 П NI 4. Carex sp. 3 - Prevalence Index is ≤3.0¹ <u>5</u> П **FACU** 5. Fragaria virginiana ☐ 4 - Morphological Adaptations¹ (Provide supporting П 6. ____ data in Remarks or on a separate sheet) ☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain) 7. ____ П ¹ Indicators of hydric soil and wetland hydrology must

Remarks: (Include photo numbers here or on a separate sheet.) Fraxinus pennsylvanica trees in the sample plot are dead. Thicket.

95

10

10

 \boxtimes

= Total Cover

= Total Cover

FACW

Woody Vine Stratum (Plot size: 30' radius)

10. ____

2. ____

1. Vitis riparia

No 🗌

Be present, unless disturbed or problematic.

Yes 🛛

Hydrophytic

Vegetation

Present?

SOIL Sampling Point: 60

WETLAND DETERMINATION DATA FORM – Midwest Region Sampling Date: 09/05/2019 Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Point: 61 Applicant/Owner: _ State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): <u>0-2%</u> Long: _ Datum: Lat: Soil Map Unit Name: Ogden muck (Oc) NWI classification: T3K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No Remarks: 90-day antecedent precipitation is normal. **VEGETATION** – Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 30' radius) **Dominance Test worksheet:** % Cover Species? Status <u>10</u> \boxtimes **FAC** 1. Rhamnus cathartica **Number of Dominant Species** That are OBL, FACW, or FAC: 3 (A) 2. **Total Number of Dominant** Species Across All Strata: 3 (B) Percent of Dominant Species = Total Cover That Are OBL, FACW, or FAC: 100% (A/B) <u>10</u> Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: 30' radius) <u>60</u> \boxtimes **FAC** 1. Rhamnus cathartica Total % Cover of: Multiply by: **OBL** species x 1 = 3. ____ x 2 = **FACW** species **FAC** species x 3 = FACU species x 4 = 60 = Total Cover **UPL** species x 5 = Herb Stratum (Plot size: 5' radius) Column Totals: (A) \boxtimes <u> 25</u> **FAC** Prevalence Index = B/A = 1. Rhamnus cathartica **Hydrophytic Vegetation Indicators:** 8 **FACU** 2. Parthenocissus inserta

5

3

<u>41</u>

0

П

П

П

= Total Cover

= Total Cover

FACU

FACU

US Army Corps of Engineers

Woody Vine Stratum (Plot size: 30' radius)

Remarks: (Include photo numbers here or on a separate sheet.) Buckthorn thicket.

3. Circaea canadensis

4. Taraxacum officinale

5.

7. ____

10. ____

2. ___

No 🗌

☐ 1 - Rapid Test for Hydrophytic Vegetation

☐ 4 - Morphological Adaptations¹ (Provide supporting

data in Remarks or on a separate sheet)

5 - Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must

Be present, unless disturbed or problematic.

Yes 🛛

□ 2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0¹

Hydrophytic

Darge Da		- 41 4	46 4 4				<i></i>	-1	· · · · · · · · · · · · · · · · · · ·	g Point: <u>61</u>	
Profile De	scription: (Describe t	o tne dep	ith needed to				firm the a	absenc	e of indicators.)		
Depth	Matrix				Redox Feat						
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc ²		Texture	Rema	arks
0-6	10YR 4/2	100						Silt le	oam		
6-12	10YR 4/3	80	10YR 4/6		20	C	PL M	Silty	clay loam	-	
12+										Refusal: Fill mate	rial
_ , ,	Concentration, D=Dep	letion, RM	I=Reduced Ma	atrix, MS	=Masked S	and Grains			² Location: PL=Pore		
,	il Indicators: Histosol (A1)				Sandy Glev	yed Matrix (S	4)		Indicators for Proble Coast Prairie I		s°:
	Histic Epipedon (A2)			+	Sandy Red		4)		Dark Surface		
	Black Histic (A3)				Stripped M					se Masses (F12)	
	Hydrogen Sulfide (A4))			Loamy Mu	cky Mineral (F	=1)		Very Shallow I	Dark Surface (TF12	<u>?</u>)
	Stratified Layers (A5)				-	yed Matrix (F	2)		Other (Explain	in Remarks)	
	2 cm Muck (A10)				Depleted N						
ᆜ	Depleted Below Dark Thick Dark Surface (A	•	A11)	<u> </u>	_	k Surface (F6)ark Surface (•				
	Sandy Mucky Mineral			님		oressions (F8)			³ Indicators of Hydro		
ᅡ	5 cm Mucky Peat or P				- Redox Bep		,			logy must be preser ed or problematic.	nt,
Restrictiv	e Layer (if observed):	, ,							Offices disturbe	od of problematic.	
	e: <u>Fill material</u>								Hydric Soil Present	? Yes 🗌 🛚 N	lo ⊠
Dept	th (inches): <u>12</u>										
IYDROL	OGY Hydrology Indicators										
	nary Indicators (minimu		s required; ch	eck all th	nat apply)				Secondary Indi	cators (minimum of	two required)
Ιп	Surface Water (A1)			Π м	/ater-Staine	d Leaves (B9))		☐ Surface S	oil Cracks (B6)	
	High Water Table (A2	2)			quatic Faun	`	,			Patterns (B10)	
	Saturation (A3)	,				Plants (B14)				on Water Table (C2)
	Water marks (B1)					Ifide Odor (C				Surrows (C8)	,
	Sediment Deposits (E	32)			-	zospheres on	-	oots (C		Visible on Aerial In	nagery (C9)
	Drift Deposits (B3)	/				Reduced Iron	_		<u> </u>	Stressed Plants (E	
	Algal Mat or Crust (B	4)				Reduction in 1		s (C6)		nic Position (D2)	.,
	Iron Deposits (B5)	•,			hin Muck Sı		i iiiou ooiio	3 (33)		ral Test (D5)	
	Inundation Visible on	Δerial Im:	agery (R7)			ell Data (D9)			1710 Nout	rai rest (Do)	
	Sparsely Vegetated (-	in in Remarks	٠)				
	servations:	Jonicave 3	ouriace (Do)		ulei (Explai	III III IXCIIIAI KS	·)				
		es 🔲 🛚 ।	No ⊠ Der	oth (inch	es):						
					es):						
					es):						
	capillary fringe)	es 🗀 🗀	NO 🖂 Del	pui (iiicii	es)			Wetla	nd Hydrology Presei	nt? Yes □	No 🛛
,	Recorded Data (strear	n gauge, ı	monitoring we	ll, aerial	photos, prev	vious inspecti	ons), if av	/ailable:	Topo Maps (Exhibit	1), WWI Map (Exhil	bit 2), Soils
	nibit 3), and Aerial phot										(5.2)
	: The site is in the F				-	-	-	-	-	omorphic positior	า (D2) does
not appl	y as the site in a cor	ivex area	consisting o	וווו וכ ma	iteriai. No v	weuana nya	rology in	uicato	is observed.		

WETLAND DETERMINATION DATA FORM – Midwest Region Project/Site: Lynn Kurer and Wayne Bushberger Properties City/County: City of Muskego/Waukesha County Sampling Date: 09/05/2019 Applicant/Owner: Sampling Point: 62 State: WI Investigator(s): Chris Jors, Jen Dietl, Shane Heyel; SEWRPC Section, Township, Range: NE 1/4 Section 14, T5N, R20E Landform (hillslope, terrace, etc.): <u>depression</u> Local relief (concave, convex, none): concave Slope (%): <u>0-2%</u> Long: Datum: Soil Map Unit Name: Ogden muck (Oc) NWI classification: None Are climatic/hydrologic conditions on the site typical for this time of year? Yes ⊠ No ☐ (If no, explain in Remarks) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗌 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No

Tree Stratum (Plot size: <u>30' radius</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Fraxinus pennsylvanica</u>	<u>10</u>	\boxtimes	FACW	Number of Dominant Species
2. <u>Rhamnus cathartica</u>	<u>5</u>	\boxtimes	<u>FAC</u>	That are OBL, FACW, or FAC: 5 (A)
3				Total Number of Dominant
4				Species Across All Strata: <u>5</u> (B)
5	<u></u> <u>15</u>	☐ = Total Cov	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size: 30' radius)				Prevalence Index worksheet:
1. <u>Rhamnus cathartica</u>	<u>70</u>	\boxtimes	<u>FAC</u>	Total % Cover of: Multiply by:
2. <u>Fraxinus pennsylvanica</u>	<u>5</u>		FACW	OBL species x 1 =
3. <u>Populus alba</u>	<u>5</u>		NI (UPL)	FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
	<u>80</u>	= Total Cov	ver	UPL species x 5 =
<u>Herb Stratum</u> (Plot size: <u>5' radius</u>)				Column Totals: (A)
1. <u>Rhamnus cathartica</u>	<u>25</u>	\boxtimes	<u>FAC</u>	Prevalence Index = B/A =
2. <u>Frangula alnus</u>	<u>15</u>	\boxtimes	FACW	Hydrophytic Vegetation Indicators:
3. <u>Carex granularis</u>	<u>5</u>		<u>FACW</u>	☐ 1 - Rapid Test for Hydrophytic Vegetation
4. <u>Viburnum opulus</u>	<u>5</u>		<u>FAC</u>	□ 2 - Dominance Test is >50% □ 3 - Dominance Test is <60.01
5. <u>Vitis riparia</u>	<u>3</u>		<u>FACW</u>	☐ 3 - Prevalence Index is ≤3.0¹☐ 4 - Morphological Adaptations¹ (Provide supportin
3		П		data in Remarks or on a separate sheet)
7		П		☐ 5 - Problematic Hydrophytic Vegetation¹ (Explain)
B		П		
9				¹ Indicators of hydric soil and wetland hydrology must
10.				Be present, unless disturbed or problematic.
· · · · · · · · · · · · · · · · · · ·	<u>53</u>	= Total Cov	ver	
Woody Vine Stratum (Plot size: 30' radius)				Hydrophytic
1				Vegetation
2				Present? Yes ⊠ No □
	<u>0</u>	= Total Cov	ver	

Remarks: 90-day antecedent precipitation is normal.

OIL								g Point: <u>62</u>	
Profile De	scription: (Describe	to the dep	oth needed to docur	nent the indi	icator or con	firm the a	absence of indicators.)		
Depth Matrix			Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	— Texture	Remarks	
0-4	N 2.5/	90	10YR 4/6	10	C	PL M	Silt loam		
4-8	N 2.5/	95	10YR 4/6	5		PL M	Silt loam	with gravel	
8-17	10YR 5/2	95	10YR 4/6	5		PL M	Loamy fine sand	with graver	
		· 	10111 4/0			FL IVI	-		
17-26	N 2.5/	100					Muck		
			· -				<u> </u>		
1T C-	Otuetien D-D	lation DI	4—Daduard Makiir M	C-Maakad C	and Onsina		21ti DID	Lining BA-BAnduis	
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains ² Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils ³ :									
,									
☐ Histic Epipedon (A2) ☐ Sandy Redox (S5) ☐ Dark Surface (S7									
	Black Histic (A3) Stripped Matrix (S6)						☐ Iron-Mangane		
	☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) ☐ Very Shallow Dark Surface (TF12)								
Stratified Layers (A5)									
	2 cm Muck (A10)			Depleted N	` '				
□ □ Depleted Below Dark Surface (A11) □ Thick Dark Surface (A12) □ Depleted Dark Surface (F7) ³Indicators of Hydrophytic vegetation and									
	Thick Dark Surface (A							phytic vegetation and	
	Sandy Mucky Mineral			Redox Del	pressions (F	0)		ogy must be present,	
5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Unless disturbed or problematic.									
		I					Undria Cail Dracant	yoo ⊠ No □	
	Type: Hydric Soil Present? Yes ⊠ No □ Depth (inches):								
Remarks:									
r torriarito.									
HYDROLOGY									
Wetland	Hydrology Indicators):							
Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required)									
						<u>_</u>			
ᅵᆣ	Surface Water (A1)				ed Leaves (B	19)		oil Cracks (B6)	
<u> </u>	High Water Table (A	2)	<u> </u>	Aquatic Faun	na (B13)		Drainage I	Patterns (B10)	
Saturation (A3)				True Aquatic	Plants (B14)		_ ☑ Dry-Seas	on Water Table (C2)	
	☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1)					1)	Crayfish B	surrows (C8)	
	Sediment Deposits (B2) Oxidized Rhizospheres on Living					Living Ro	oots (C3) Saturation	Visible on Aerial Imagery (C9)	
								Stressed Plants (D1)	
							(C6) Geomorp	hic Position (D2)	
	Inundation Visible on	Aerial Im:		Gauge or We					
ᅡ	Sparsely Vegetated (-					
Field Ob	servations:	Jonicave 3	Surface (Bo)	Otriei (Explai	in in Remarks	·)			
		′oc □	No ⊠ Donth (inc	hoc):					
Surface Water Present? Yes No Depth (inches):									
Water Table Present? Yes ⊠ No ☐ Depth (inches): 14									
Saturation Present? Yes No Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes No Depth (inches): 0 (at surface)									
(includes capillary fringe)									
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Maps (Exhibit 1), WWI Map (Exhibit 2), Soils									
Map (Exhibit 3), and Aerial photos (Exhibit 4). Remarks: The sample site is in a depression that lies just outside the FEMA-mapped one-percent-annual-probability floodplain of Big Muskego									
	•								
Lake. Th	ne site is at lower ele	evation th	an the directly adja	acent portio	n of the map	pped floo	dplain (e.g. sample site 6	1).	
I									

Exhibit 10. Site Photos

Lynn Kurer and Wayne Bushberger Properties NW Quarter, Section 13, NE Quarter, Section 14, T5N-R20E City of Muskego, Waukesha County

Photo 1. Wetland sample site 1, PCA 1. (NW view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 3. Wetland sample site 3, PCA 1. Atypical (farmed) wetland.



Photo 5. Wetland sample site 5, PCA 1. (West view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 2. Upland sample site 2. Agricultural field. Sample sites 12 and 15 are similar.



Photo 4. Upland sample site 4. Agricultural field.



Photo 6. Upland sample site 6. Old field/agricultural field. Sample sites 22, 24, 26, and 29 are similar.



Photo 7. Wetland sample site 7, PCA 1. (South view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 9. Upland sample site 9. (East view) Agricultural field. Sample site 10 (West view) is similar.



Photo 11. Upland sample site 13. Hardwoods.



Photo 8. Wetland sample site 8. (East view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 10. Wetland sample site 11, PCA 1. (North view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 12. Wetland sample site 14, PCA 2. Hardwood swamp.



Photo 13. Wetland sample site 16, PCA 1. (South view) Atypical (farmed) wetland.



Photo 15. Upland sample site 18. (East view) Agricultural field. Sample site 31 is similar.



Photo 17. Wetland hydrology indicator C8, crayfish burrow, at sample site 19.



Photo 14. Wetland sample site 17, PCA 1. (SE view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 16. Wetland sample site 19, PCA 1. (SW view) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 18. Wetland hydrology indicator B5, iron deposit, at sample site 19.



Photo 19. Upland sample site 20. Old field, occasionally farmed.



Photo 21. Wetland sample site 23, PCA 1. (South view) Atypical (farmed) wetland/fresh (wet) meadow. Sample sites 30 and 32 are similar.



Photo 23. Wetland sample site 27, PCA 1. (SSE view) Atypical (farmed) wetland/fresh (wet) meadow. Sample site 28 is similar.



Photo 20. Wetland sample site 21, PCA 1. NE view)) Atypical (farmed) wetland/fresh (wet) meadow.



Photo 22. Wetland sample site 25, PCA 1. Atypical (farmed) wetland/fresh (wet) meadow.



Photo 24. Wetland hydrology indicator B4, algal crust or mat at sample site 30.



Photo 25. Upland sample site 33. (South view) Agricultural field. Sample sites 34 and 42 are similar.



Photo 27. Wetland sample site 36, PCA 1. (West view) Atypical (farmed) wetland.



Photo 29. Wetland sample site 39, PCA 1. Atypical (farmed) wetland. Sample site 41 is similar.



Photo 26. Wetland sample site 35, PCA 2. Fresh (wet) meadow.



Photo 28. Upland sample site 37. (West view) Agricultural field. Sample sites 38, 40, and 44 are similar.



Photo 30. Wetland hydrology indicator, B5, iron deposit near sample site 39.



Photo 31. Wetland sample site 43, PCA 1. (North view) Atypical (farmed) wetland.



Photo 33. Wetland sample site 46, PCA 4. Shrub-carr (buckthorn thicket) at the edge of fresh (wet) meadow.



Photo 35. Wetland sample site 48, PCA 4. Shrub-carr (buckthorn thicket).



Photo 32. Upland sample site 45. Buckthorn thicket and hardwoods.



Photo 34. Upland sample site 47. Buckthorn thicket.



Photo 36. Morphological adaptations, buckthorn with shallow roots and multiple stems, at sample site 48.



Photo 37. Wetland sample site 49, PCA 3. (NW view) Atypical (mowed) wetland in a roadside swale.



Photo 39. Upland sample site 51. Buckthorn thicket.



Photo 41. Wetland sample site 53, PCA 4. Atypical (mowed) wetland.



Photo 38. Upland sample site 50. Mowed lawn.



Photo 40. Wetland sample site 52, PCA 4. Fresh (wet) meadow and shrub-carr with lowland hardwoods.



Photo 42. Upland sample site 54. Edge of mowed lawn and gravel driveway.



Photo 43. Wetland sample site 55, PCA 4. Shrub-carr (buckthorn thicket). Sample site 58 is similar.



Photo 45. Upland sample site 57. Buckthorn thicket with hardwoods.



Photo 47. Upland sample site 60. Thicket.



Photo 44. Upland sample site 56. Buckthorn thicket. Sample site 61 is similar.



Photo 46. Wetland sample site 59, PCA 4. Shallow marsh and open water of a dredged channel.



Photo 48. Wetland sample site 62, PCA 4. Shrub-carr (buckthorn thicket).



Photo 49. South view, staked portion of wetland PCA 1, including sample site 1.



Photo 50. West view, staked portion of wetland PCA 1, including sample site 3.



Photo 51. West view, staked portion of wetland PCA 1, including sample site 5.



Photo 52. North view, staked portion of wetland PCA 1, drainageway/swale including sample sites 7 and 8.



Photo 53. NW view, partially staked portion of wetland PCA 1, including sample site 11.



Photo 54. Collapsed drain tile just north of sample site 15.



Photo 55. SE view of the portion of wetland PCA 1, including sample site 17. Only the left side of this connecting drainageway is staked.



Photo 56. ESE view along staked wetland boundary near sample site 19 (PCA 1), with a portion of wetland PCA 2 in the upper right of the image.



Photo 57. WNW view, staked portion of wetland PCA 1, from near sample site 21.



Photo 58. West view, staked portion of wetland PCA 1, near sample site 23.



Photo 59. East view along PCA 1 wetland boundary near sample site 23. PCA 2, hardwood swamp and shrub-carr including sample site 14, is in the background.



Photo 60. SE view near sample site s28 (PCA 1) and 29. Flags in the photo are on the northeast side of a drainageway/swale connection between larger wetland areas that each extend to Durham Drive.



Photo 61. SW view from wetland sample site 30 (PCA 1) with a view of the portion of PCA 2 that includes sample site 35 in the background.



Photo 62. East view along staked wetland boundary from sample site 33.



Photo 63. North view along staked PCA 2 wetland boundary near sample sites 34 and 35.



Photo 64. North view, staked PCA 1 wetland boundary between sample sites 36 and 37.



Photo 65. North view along staked PCA 1 wetland boundary from between sample sites 39 and 40.



Photo 66. Culvert underneath Durham Drive near sample site 41 (PCA 1).



Photo 67. West view, staked PCA 1 wetland boundary between sample sites 43 and 44.



Photo 68. SE view, three small staked wetlands in a mowed swale comprising PCA 3.



Photo 69. NW view, staked PCA 4 wetland boundary along the edge of old fill material near sample site 53.



Photo 70. Culvert crossing underneath Durham Drive near sample site 53.



Photo 71. East view, dredged pond portion of PCA 4, SE of sample sites 57 and 58.



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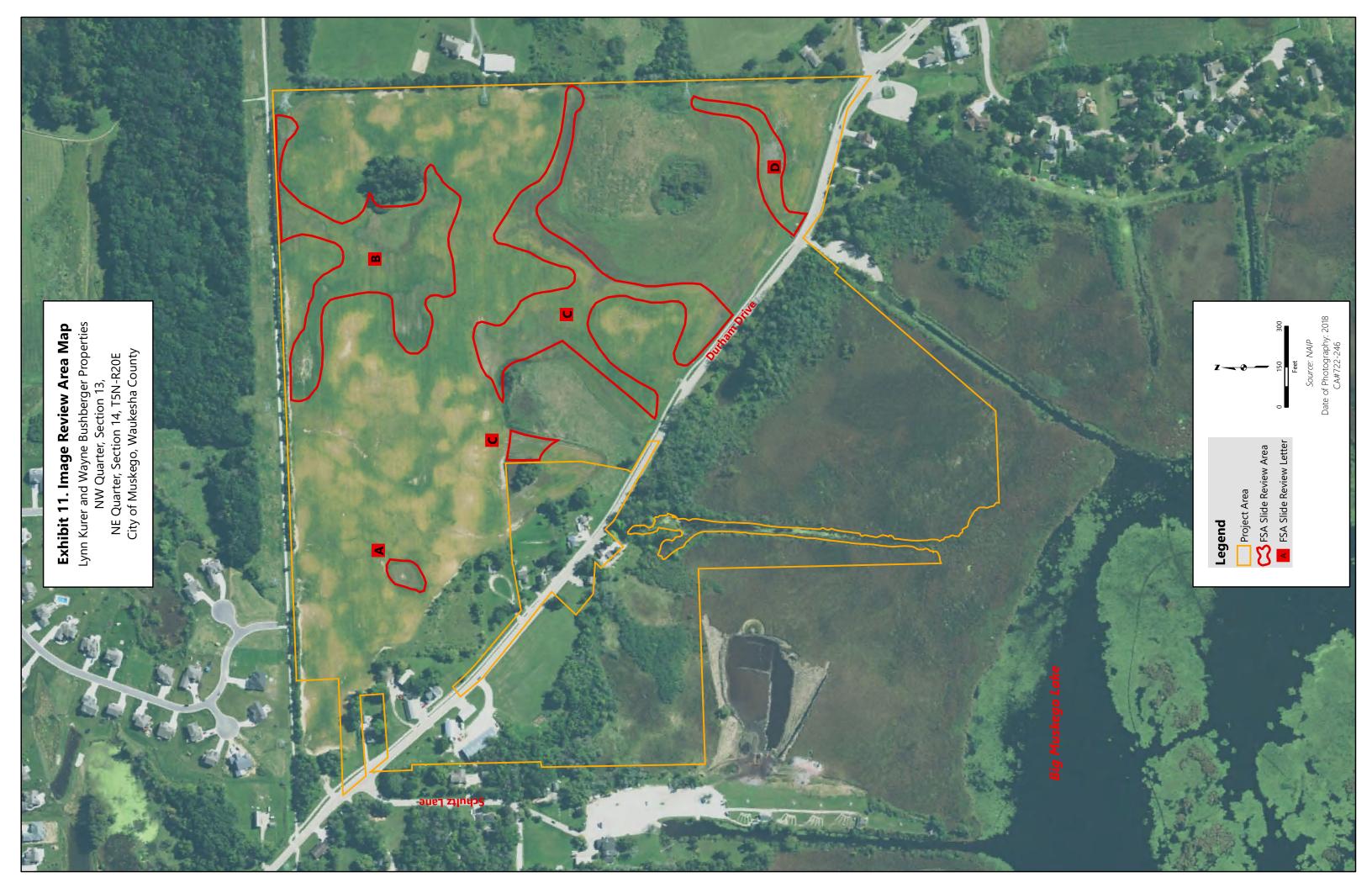


Exhibit 12. Wetland Hydrology from Aerial Imagery - Recording Forma

Project Name: <u>Kurer and Bushberger Properties</u> Date: <u>7-29-2019</u> County: <u>Waukesha</u>

Investigators: Chris Jors and Zofia Noe; SEWRPC Legal Description (T, R, S): T5N, R20E, S13 and S14

Summary Table

			Image Interpretation for Area(s)				
				A	В	С	D
		Climate	Sample site(s):	1	5, 7, 8, 11, 16,	19, 25, 27, 28,	41 and 43
Date		Condition			17, 21, 23	30, 32, 37, 40	
Image		(wet=3	Soil Unit(s):	OzaB, OzaB2	AsA	Oc, Ph	HtA, AsA
Taken	Image	normal=2	NRCS Inventory:	W	PC, W	PC	PC, FW
(M-D-Y)	Source	dry=1) ^b	Landform:	Depression	Swale	Hill slope	Hill slope
9-15-2018	NAIP	3		WS, SW	WS	WS, SS	WS
9-23-2017	NAIP	1		WS, SS	WS	WS	WS
9-22-2015	NAIP	2		SS, SW	ws	NV	NV
6-19-2013	NAIP	3		NSS	SS	SS-	SS-
6-28-2010	NAIP	3		SW	SS, SW	WS	WS
7-5-2008	NAIP	3		SS+	SS	SS-	NSS
6-12-2006	NAIP	3		SW	SS-	SS-	SS-
6-16-2005	NAIP	1		SW	SS-	SS-	WS, SS
Aug. 2004	FSA	2		SW, DO, NC	NV	NV	NV
June 2003	FSA	2		NSS	SS	SS	SS+
2002	FSA	2		NSS	SS	SS-	WS, SS
June 2001	FSA	3		SW-	SS-	SS-	SS-
June 2000	FSA	2		SW	SS+	SS	SS-
June 1999	FSA	3		SW	SS-	SS-	SS+
June 1998	FSA	2		NSS	SS-	SS-	SS+
June 1997	FSA	3		NSS	SS	SS-	SS+
Aug. 1996	FSA	2		DO	CS	NV	CS
June 1995	FSA	1		NSS	SS-	SS-	SS
1994	FSA	1		CS	NV	NV	NV
1993	FSA	2		SW, NC	NV	ws	WS
Aug. 1992	FSA	1		NSS, NV	WS	WS	WS
Aug. 1991	FSA	1		NNS	SS	SS	WS, SS
Normal Climate Condition Years:		8	8	8	8		
Number and	Number and % with wet signatures:		:	5 (63%)	6 (75%)	5 (63%)	6 (75%)
All Climate Condition Years:			22	22	22	22	
Number and % with wet signatures:			14 (64%)	19 (86%)	18 (82%)	18 (82%)	

KEY						
WS – wetland signature	SS – soil wetness signature	CS – crop stress				
NC – not cropped	AP – altered pattern	NV – normal vegetative cover				
DO – drowned out	SW – standing water	NSS – no soil wetness signature				
Other labels or comments: "+" and "-" symbols indicate strong and weak signatures, respectively						

Note: Where the date of an FSA slide is unknown, June 30 is assumed. Where only the month is known, the end of June, early July, and early August is assumed.

^a This Form derived from US Army Corps of Engineers St. Paul District and Minnesota Board of Water and Soil Resources, *Guidance for Offsite Hydrology/Wetland Determinations*, 2016.

^b Climate data are taken from the nearest WETS station(s) with complete data: WAUKESHA

Exhibit 13. NAIP/FSA Images with Normal Antecedent Precipitation

Lynn Kurer and Wayne Bushberger Properties NW Quarter, Section 13 and NW Quarter, Section 14, T5N-R20E City of Muskego, Waukesha County

Photo 1. September 22, 2015 - NAIP

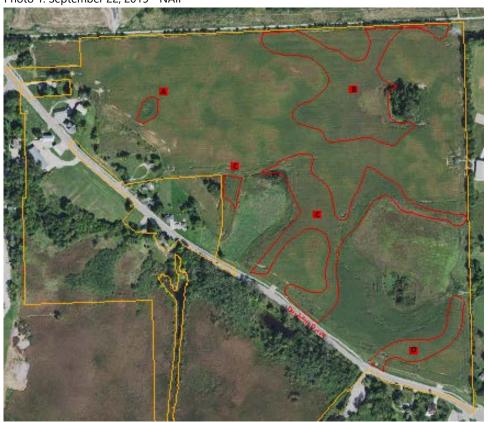


Photo 2. August 2004 – FSA



Photo 3. June 2003 - FSA



Photo 4. 2002 – NAIP



Photo 6. June 1998 – FSA



Photo 5. June 2000 – FSA



Photo 7. August 1996 – FSA



Photo 8. 1993 – FSA



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