2.4 Flood Hazard Mapping

The project location appears on Flood Insurance Rate Map (FIRM) panel 18003C0280G (effective 8/3/2009). It is shown located primarily within Zone X, indicating that it is in an Area of Minimal Flood Hazard. The area surrounding Flaugh Ditch is located within Zone AE, indicating that it is in a Regulatory Floodway.

3.0 FIELD RECONNAISSANCE

The study area was visited by Mathew Aldridge & Matthew Kestner, Environmental Scientists of B&N on September 25, 2019 to observe and document existing conditions, and to identify and evaluate potentially jurisdictional "waters of the U.S." (WOTUS) and other aquatic resources. Weather conditions were a high of 76°F and the last recorded precipitation was 0.37 inches on September 23, 2019. Findings of the field investigation are summarized below.

3.1 Streams

No streams were identified within the study area.

Flaugh Ditch, a perennial stream, crosses through the eastern portion of the study area. However, it is entirely culverted within the study area.

3.2 Wetlands

A total of fourteen data collection points were established in the study area to characterize and delineate potential wetland resources, and adjacent upland communities. Vegetation, hydrology, and soil data were collected at each sample point in accordance with applicable U.S. Army Corps of Engineers (USACE) Regional Supplement delineation protocols (*Midwest Regional Supplement*). Data collection results for each sample plot are discussed below:

Wetland 1: This is a palustrine emergent wetland that occurs to the north of Illinois Road. It is approximately 0.012 acre in size. The wetland is dominated by *Populus deltoides, Typha angustifolia,* and *Parthenocissus quinquefolia.* This point passed both the dominance test and prevalence index for hydrophytic vegetation. This wetland appears to be seasonally saturated as evidenced by the depleted matrix hydric soil indicator (10YR 5/1 & 7.5YR 5/8 redox concentrations between 0 and 14 in.). This wetland also contained surface water, high water table, and saturation, all of which

are primary wetland hydrology indicators. The hydrology of this wetland is sourced from a seep along the embankment of SR 14. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 2 was taken on the roadway embankment outside of Wetland 1. This soil exhibited a matrix of 10YR 4/3 between 0 and 8 in. This point had a dominance of *Plantago major, Lotus corniculatus,* and *Schedonorus arundinaceus*. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland 2: This is a palustrine emergent wetland that occurs to the north of Illinois Road. It is approximately 0.036 acre in size. The wetland is dominated by *Phragmites australis*. This point passed the rapid test, dominance test, and prevalence index for hydrophytic vegetation. The wetland appears to be seasonally saturated as evidenced by the loamy gleyed matrix hydric soil indicator (10Y 5/1 between 0 and 12 in.). This wetland also contained high water table and saturation, both of which are primary wetland hydrology indicators. The hydrology of this wetland is sourced from a seep along the embankment of SR 14. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 4 was taken on the roadway embankment outside of Wetland 2. This soil exhibited a matrix of 10YR 4/3 between 0 and 7 in. This point had a dominance of *Schedonorus arundinaceus, Plantago major,* and *Lolium perenne*. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland 3: This is a palustrine emergent wetland that occurs to the south of Illinois Road. It is approximately 0.103 acre in size. The wetland is dominated by *Typha angustifolia*. This point passed the rapid test, dominance test, and prevalence index for hydrophytic vegetation. The wetland appears to be seasonally saturated as evidenced by the loamy gleyed matrix hydric soil indicator (10YR 4/1 & 6.5YR 5/8 redox concentrations between 0 and 12 in.). This wetland also contained saturation, which is primary wetland hydrology indicator. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 6 was taken on the roadway embankment outside of Wetland 3. This soil exhibited a matrix of 10YR 5/2 between 0 and 12 in. This point had a dominance of *Festuca pratensis, Lolium perenne,* and

Trifolium repens. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland 4: This is a palustrine emergent wetland that is approximately 0.123 acre in size. The wetland is dominated by *Juncus tenuis* and *Typha angustifolia*. This point passed the dominance test and prevalence index for hydrophytic vegetation. It appears to be seasonally saturated as evidenced by the depleted matrix and redox depressions hydric soil indicators (10YR 5/1 & 7.5YR 5/8 redox concentrations between 0 and 10 in.). This wetland also contained surface water, high water table, saturation, and algal mat, all of which are primary wetland hydrology indicators. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 8 was taken outside of Wetland 4. This soil exhibited a matrix of 10YR 4/3 between 0 and 7 in. This point had a dominance of *Schedonorus arundinaceus, Plantago major,* and *Lolium perenne*. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland 5: This is a palustrine emergent wetland that is approximately 0.177 acre in size. The wetland is dominated by *Juncus tenuis* and *Typha angustifolia*. This point passed the dominance test and prevalence index for hydrophytic vegetation. It appears to be seasonally saturated as evidenced by the loamy gleyed matrix hydric soil indicator (10YR 5/1 between 0 and 12 in.). This wetland also contained surface water, high water table, saturation, and algal mat, all of which are primary wetland hydrology indicators. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 10 was taken outside of Wetland 5. This soil exhibited a matrix of 10YR 4/3 between 0 and 16 in. This point had a dominance of *Schedonorus arundinaceus, Lolium perenne,* and *Asclepias verticillata*. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland 6: This is a palustrine emergent wetland that is approximately 0.042 acre in size. The wetland is dominated by *Juncus tenuis*. This point passed the dominance test and prevalence index for hydrophytic vegetation. It appears to be seasonally saturated as evidenced by the depleted matrix hydric soil indicator (10YR 5/1 & 7.5 YR 5/8 redox concentrations between 0 and 9 in.). This wetland also contained saturation and algal mat, both of which are primary wetland hydrology

indicators. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 12 was taken outside of Wetland 6. This soil exhibited a matrix of 10YR 5/2 between 0 and 18 in. This point had a dominance of *Schedonorus arundinaceus, Lolium perenne,* and *Festuca pratensis*. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland 7: This is a palustrine emergent wetland that is approximately 0.080 acre in size. The wetland is dominated by *Juncus tenuis* and *Typha angustifolia*. This point passed the dominance test and prevalence index for hydrophytic vegetation. It appears to be seasonally saturated as evidenced by the depleted matrix hydric soil indicator (10YR 5/1 & 7.5YR 5/8 redox concentrations between 0 and 8 in.). This wetland also contained saturation and algal mat, both of which are primary wetland hydrology indicators. Due to its hydrological connection to Flaugh Ditch, it is likely a Jurisdictional Water of the U.S.

Soil Point (SP) 14 was taken outside of Wetland 7. This soil exhibited a matrix of 10YR 5/2 between 0 and 10 in. This point had a dominance of *Schedonorus arundinaceus, Lolium perenne,* and *Festuca pratensis*. Hydrophytic vegetation was neither dominant nor prevalent. Wetland hydrology criteria were not met.

Wetland and Data Point characteristics are summarized in Table 4.

Data Point	Vegetation	Soils	Hydrology	Wetland
SP 1	Yes	Yes	Yes	Yes
SP 2	No	No	No	No
SP 3	Yes	Yes	Yes	Yes
SP 4	No	No	No	No
SP 5	Yes	Yes	Yes	Yes
SP 6	No	No	No	No
SP 7	Yes	Yes	Yes	Yes
SP 8	No	No	No	No
SP 9	Yes	Yes	Yes	Yes
SP 10	No	No	No	No
SP 11	Yes	Yes	Yes	Yes
SP 12	No	No	No	No
SP 13	Yes	Yes	Yes	Yes
SP 14	No	No	No	No

Table 4Data Point Summary Table

Wetland Name	Photos	Lat/Long	Туре	Total Area (acres)	Quality	Likely Water of the U.S.?
Wetland 1	1-7	41.074708, -85.222657	PEM1B	0.012	Poor	Yes
Wetland 2	11-14	41.074721, -85.223291	PEM1B	0.036	Poor	Yes
Wetland 3	20-25	41.074260, -85.223936	PEM1B	0.103	Poor	Yes
Wetland 4	29; 31-33	41.074816, -85.225706	PEM1B	0.123	Poor	Yes
Wetland 5	38-48	41.076387, -85.227363	PEM1B	0.177	Poor	Yes
Wetland 6	54-58	41.073537, -85.227941	PEM1B	0.042	Poor	Yes
Wetland 7	62-65	41.072823, -85.228019	PEM1B	0.080	Poor	Yes

Table 5 Wetland Summary Table

3.3 Open Waters

No ponds, lakes, or other open water features were observed in the study area.

4.0 CONCLUSION

Based on the findings of this investigation, B&N concludes that there are seven potentially jurisdictional wetlands located within the study area. No streams, ponds, lakes, or other water features were observed in the study area.

These waterways are likely Waters of the U.S. Every effort should be taken to avoid and minimize impacts to the waterway and wetlands. If impacts are necessary, then mitigation may be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgement based on the guidelines set forth by the Corps.

5.0 ACKNOWLEDGEMENT

The waters determination has been prepared based on the best available information interpreted in the light of the investigator's training, experience, and professional judgement in conformance with the 1987 Corps of Engineers Wetlands Delineation Manual, the appropriate regional supplement, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines

Respectfully,

Mathew Aldridge

Man 12/16/2019

Environmental Scientist Burgess & Niple, Inc. / Fort Wayne District

ATTACHMENTS

Attachment 1	Project Location Map
Attachment 2	USGS Topographic Map
Attachment 3	Aerial Map
Attachment 4	National Hydrography Dataset (NHD) Map
Attachment 5	NRCS Soil Survey and Descriptions
Attachment 6	NWI Features Map
Attachment 7	FEMA Flood Hazard Map
Attachment 8	Delineation Map
Attachment 9	Photo Orientation Map & Site Photographs
Attachment 10	Water Resources Data Forms
Attachment 11	Preliminary Jurisdictional Determination Form

Attachments 1-3 have been removed to prevent duplication within the CE



Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Feet

Attachment 4

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County





Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Feet

Attachment 5

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County

NRCS Hydric Soil Map



0 250 500 1,000 Feet

Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Attachment 6

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County







Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Attachment 7

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County

FEMA Flood Hazard Map



0 150 300 600 Feet

Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Attachment 8

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County

Delineation Map



0 30 60 120 Feet

Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Attachment 9

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County

Photo Orientation Map



Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

Feet

Attachment 9

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County

Photo Orientation Map



0 50 100 200 Feet

Sources: <u>Non Orthophotography</u> <u>Data</u> - Obtained from the State of Indiana Geographical Information Office Library <u>Orthophotography</u> - Obtained from Indiana Map Framework Data (www.indianamap.org) <u>Map Projection:</u> UTM Zone 16 N <u>Map Datum:</u> NAD83 Prepared By: Burgess & Niple

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Feet

Prepared By: Burgess & Niple

Attachment 9

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Photo Orientation Map



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Feet

Attachment 9

Indiana Dept. of Transportation (INDOT) I-69/SR 14 Interchange Modification Des. No.: 1800091 Fort Wayne, Allen County

Photo Orientation Map

INDIANA DEPARTMENT OF TRANSPORTATION (INDOT) I-69/SR 14 IN ALLEN COUNTY, INDIANA INTERCHANGE MODIFICATON DES. NO.: 1800091 SITE PHOTOGRAPHS SEPTEMBER 25, 2019



Photo 1: Wetland 1 north of Illinois Road, facing west.



Photo 3: Wetland 1, facing northeast.



Photo 2: Wetland 1 north of Illinois Road, facing east.



Photo 4: Wetland 1, facing northwest.





Photo 5: Wetland 1, facing east.



Photo 7: Hydric soils taken from Soil Point 1.



Photo 6: Location of Soil Point 1 within Wetland 1.



Photo 8: Location of Soil Point 2 outside of Wetland 1.





Photo 9: Upland soils taken from Soil Point 2.



Photo 11: Wetland 2, facing north.



Photo 10: Flaugh Ditch north of Illinois Road, facing northwest.



Photo 12: Wetland 2, facing northwest.





Photo 13: Location of Soil Point 3 within Wetland 2.



Photo 15: Location of Soil Point 4 outside of Wetland 2.



Photo 14: Hydric soils taken from Soil Point 3.



Photo 16: Upland soils taken from Soil Point 4.





Photo 17: Right-of-way north of Illinois Road, facing west.



Photo 19: End of Wetland 3 draining into Flaugh Ditch south of Illinois Road, facing north.



Photo 18: Flaugh Ditch culvert exposed within right-of-way south of Illinois Road, facing north.



Photo 20: Wetland 3 south of Illinois Road, facing east.





Photo 21: Wetland 3 south of Illinois Road, facing west.



Photo 23: Wetland 3 south of Illinois Road, facing east.



Photo 22: Wetland 3 south of Illinois Road, facing southwest.



Photo 24: Location of Soil Point 5 within Wetland 3.





Photo 25: Hydric soils taken from Soil Point 5.



Photo 27: Upland soils taken from Soil Point 6.



Photo 26: Location of Soil Point 6 outside of Wetland 3.



Photo 28: View of median of Illinois Road and I-69 North entrance ramp, facing east.





Photo 29: Wetland 4, facing east.



Photo 31: Wetland 4, facing southeast.



Photo 30: View of median of Illinois Road and I-69 North entrance ramp, facing north.



Photo 32: Location of Soil Point 7 within Wetland 4.





Photo 33: Hydric soils taken from Soil Point 7.



Photo 34: Location of Soil Point 8 outside of Wetland 4.



Photo 35: Upland soils taken from Soil Point 8.



Photo 36: View of median of I-69 North to Illinois Road East exit ramp, facing southwest.





Photo 37: View of median of Illinois Road West to I-69 North entrance ramp, facing northwest.



Photo 39: Wetland 5, facing southeast.



Photo 38: Wetland 5, facing southwest.



Photo 40: Wetland 5, facing northwest.





Photo 41: Wetland 5, facing south.



Photo 43: Connectivity within Wetland 5, facing west.



Photo 42: Connectivity within Wetland 5, facing east.



Photo 44: Culvert opening to Wetland 5 beneath Illinois Road West to I-69 North entrance ramp.





Photo 45: Culvert opening to Wetland 5 beneath I-69 North to SR 14 West exit ramp.



Photo 47: Location of Soil Point 9 within Wetland 5.



Photo 46: Culvert opening to Wetland 5 beneath I-69.



Photo 48: Hydric soils taken from Soil Point 9.





Photo 49: Location of Soil Point 10 outside of Wetland 5.



Photo 51: View of median of I-69 North to SR 14 West exit ramp, facing south.



Photo 50: Upland soils taken from Soil Point 10.



Photo 52: View of median of I-69 North to SR 14 West exit ramp, facing southwest.





Photo 53: View of median of SR 14 East to I-69 North entrance ramp, facing northeast.



Photo 55: Culvert opening to Wetland 6.



Photo 54: Wetland 6, facing northwest.



Photo 56: Wetland 6, facing southeast.





Photo 57: Wetland 6, facing northwest.



Photo 58: Hydric soils taken from Soil Point 11.



Photo 59: Location of Soil Point 12 outside of Wetland 6.



Photo 60: Upland soils taken from Soil Point 12.





Photo 61: View of median of I-69 North to Illinois Road East exit ramp, facing southwest.



Photo 63: Wetland 7, facing north.



Photo 62: Wetland 7, facing south.



Photo 64: Wetland 7, facing south.





Photo 65: Hydric soils taken from Soil Point 13.



Photo 66: Location of Soil Point 14 outside of Wetland 7.



Photo 67: Upland soils taken from Soil Point 14.



Attachment 10

Water Resources Data Forms

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: I-69/SR 14 Interchange (Des. No.: 1800091)			City/Cou	unty: F	ort Wayne, A	Allen Cou	unty	Sampling Date:	9/25/19	
Applicant/Owner:	Indiana Department of Transportation						State:	IN	Sampling Point:	SP-1
Investigator(s): M. Kestner & M. Aldridge				Section,	Townsh	nip, Range:	S6 T30	N R12E		
Landform (hillside, te	errace, etc.): <u>Er</u>	nbankment			Local r	elief (conca	ve, conve	ex, none):	None	
Slope (%): 10%	Lat: 41.0747	13		Long:	-85.222	681			Datum: NAD 83	
Soil Map Unit Name:	Eel Silt Loam	(Es)					N	WI classif	ication: N/A	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)										
Are Vegetation X	, Soil <u>X</u> , o	r Hydrology X	significantly dis	turbed?	Are "No	ormal Circun	nstances'	' present?	Yes <u>X</u> N	0
Are Vegetation	, Soil, c	r Hydrology	naturally proble	matic?	(If need	led, explain	any answ	ers in Re	marks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology	ntion Present? ? Present?	Yes X Yes X Yes X	No No No	ls the withi	e Samp in a We	oled Area otland?	Y	es_X_	No	
Remarks:										

Wetland 1

VEGETATION – Use scientific names of plants.

		Absolute	Dominant	Indicator				
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:			
1					Number of Dominant Species That			
2					Are OBL, FACW, or FAC: 2 (A)			
3					Total Number of Dominant Species			
4					Across All Strata: <u>3</u> (B)			
5					Percent of Dominant Species That			
			=Total Cover		Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)			
Sapling/Shrub Stratum (Plot size:	15))						
1. Populus deltoides		10	Yes	FAC	Prevalence Index worksheet:			
2					Total % Cover of: Multiply by:			
3					OBL species 90 x 1 = 90			
4					FACW species 0 x 2 = 0			
5.					FAC species 10 x 3 = 30			
		10	=Total Cover		FACU species 20 x 4 = 80			
Herb Stratum (Plot size: 5)				UPL species 0 x 5 = 0			
1. Typha angustifolia		90	Yes	OBL	Column Totals: 120 (A) 200 (B)			
2. Dipsacus fullonum		10	No	FACU	Prevalence Index = B/A = 1.67			
3.								
4.					Hydrophytic Vegetation Indicators:			
5.					1 - Rapid Test for Hydrophytic Vegetation			
6.			·		X 2 - Dominance Test is >50%			
7.					X 3 - Prevalence Index is $\leq 3.0^{1}$			
8.					4 - Morphological Adaptations ¹ (Provide supporting			
9.					data in Remarks or on a separate sheet)			
10.					Problematic Hydrophytic Vegetation ¹ (Explain)			
		100	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must			
Woody Vine Stratum (Plot size:	5))			be present, unless disturbed or problematic.			
1. Parthenocissus quinquefolia		10	Yes	FACU	Hydrophytic			
2.					Vegetation			
		10	=Total Cover		Present? Yes X No			
Remarks: (Include photo numbers here of	Remarks: (Include photo numbers here or on a separate sheet.)							
Sampling Point: SP-1

Profile Desc	ription: (Descr	ibe to the dep	th needed to doc	ument t	he indica	tor or o	confirm the absence of	of indicators.)
Depth	Matr	ix	Redo	ox Featur	res			
(inches)	Color (moist	t) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 5/1	85	7.5YR 5/8	15	С	М	Loamy/Clayey	Prominent redox concentrations
				·				
·				·				
				·				
				·				
¹ Type: C=Co	oncentration, D=	Depletion, RM=	Reduced Matrix,	MS=Mas	ked Sand	I Grains	. ² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)		? Coast	t Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			Iron-N	Manganese Masses (F12)
Black His	stic (A3)		Stripped N	/atrix (Se	6)		Red F	Parent Material (F21)
Hydroger	n Sulfide (A4)		Dark Surf	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	ucky Min	eral (F1)		Other	(Explain in Remarks)
2 cm Mu	ck (A10)		Loamy GI	eyed Ma	trix (F2)			
Depleted	Below Dark Sur	face (A11)	X Depleted	Matrix (F	3)		2	
Thick Da	rk Surface (A12))	Redox Da	rk Surfac	ce (F6)		³ Indicators	s of hydrophytic vegetation and
Sandy M	ucky Mineral (S ²	1)	Depleted	Dark Sur	face (F7)		wetla	nd hydrology must be present,
5 cm Mu	cky Peat or Peat	t (S3)	Redox De	pression	s (F8)		unles	s disturbed or problematic.
Restrictive L	ayer (if observ.	ed):						
Type:	Har	dpan						
Depth (in	ches):	14					Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
HYDROLO	GY							
Wetland Hyd	Irology Indicate	ors:						
Primary Indic	ators (minimum	of one is requi	red; check all that	apply)			Secondar	y Indicators (minimum of two required)
X Surface \	Water (A1)		Water-Sta	ined Lea	aves (B9)		Surfa	ce Soil Cracks (B6)
X High Wat	ter Table (A2)		Aquatic F	auna (B1	3)		Drain	age Patterns (B10)
X Saturatio	n (A3)		True Aqua	atic Plant	s (B14)		Dry-S	eason Water Table (C2)
Water Ma	arks (B1)		Hydrogen	Sulfide (Odor (C1))	Crayf	ish Burrows (C8)
Sedimen	t Deposits (B2)			Rhizosph	ieres on L	Living R	oots (C3) Satur	ation Visible on Aerial Imagery (C9)
	OSITS (B3)		Presence	of Reduc	ced Iron (Uad Sail		ed or Stressed Plants (D1)
						lieu Soli		Neutral Test (DE)
	n Visible on Aer	ial Imageny (B7			(C7)		FAC-	Neutral Test (DS)
Sparsely	Vegetated Con	rave Surface (F) Gauge of 38) Other (Ex	nlain in F	a (D9) Remarks)			
Eield Obeen	vegetated cont				(emano)			
Field Observ	ations:	Voc V	No	Donth (i	nohoo):	1		
Water Table	Present?	$\frac{1}{2}$	No	Depth (i	nches).	0		
Saturation Pr	resent?	Yes X	No	Depth (i	nches).	0	Wetland Hydrolog	uv Present? Yes X No
(includes car	illary fringe)	100 <u>//</u>		- opin (i		5		,,
Describe Rec	corded Data (stre	eam daude, mo	nitorina well. aeri:	al photos	, previous	s inspec	tions), if available:	
		J== 30, 110				-200	-,,	
Remarks:								

Project/Site: I-69/SR	Project/Site: I-69/SR 14 Interchange (Des. No.: 1800091)					Fort Way	yne, All	en Cou	inty	Samplin	ng Date:	9/25/19
Applicant/Owner:	Indiana Depa	rtment of Transpo	ortation				s	state:	IN	Samplin	ng Point:	SP-2
Investigator(s): M. Ke	estner & M. Alc	Iridge		Section,	Towns	hip, Ran	nge: S	6 T30N	N R12E			
Landform (hillside, te	rrace, etc.): <u>E</u>	mbankment			Local	relief (co	oncave	, conve	x, none):	none		
Slope (%): 10	Lat: 41.0746	92		Long:	-85.22	2686				Datum: N	AD 83	
Soil Map Unit Name:	Eel silt loam (Es)						N	WI classif	ication: N	/A	
Are climatic / hydrolo	gic conditions	on the site typica	al for this time of ye	ear?	Yes	Х	No		(If no, exp	lain in Re	marks.)	
Are Vegetation X	, Soil <u>X</u> ,	or Hydrology X	significantly dist	urbed?	Are "N	ormal Ci	ircumst	tances"	present?	Yes	X No)
Are Vegetation	, Soil,	or Hydrology	naturally problem	natic?	(If nee	ded, exp	olain an	iy answ	ers in Rer	marks.)		
SUMMARY OF F	INDINGS -	- Attach site	map showing	sampli	ng po	oint loc	catior	ns, tra	insects,	import	ant fea	tures, etc.
Hydrophytic Vegeta	tion Present?	Yes	No <u>X</u>	Is th	e Sam	pled Are	ea					
Hydric Soil Present	?	Yes	No X	with	in a W	etland?		Y	es	No	Х	
Wetland Hydrology	Present?	Yes	No X									

Remarks:

Upland to Wetland 1

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15)				
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species 0 x 1 = 0
4				FACW species 0 x 2 = 0
5.				FAC species 25 x 3 = 75
		=Total Cover		FACU species 70 x 4 = 280
Herb Stratum (Plot size: 5)				UPL species 10 x 5 = 50
1. Plantago major	25	Yes	FAC	Column Totals: 105 (A) 405 (B)
2. Lotus corniculatus	15	Yes	FACU	Prevalence Index = B/A = 3.86
3. Schedonorus arundinaceus	15	Yes	FACU	
4. Taraxacum officinale	10	No	FACU	Hydrophytic Vegetation Indicators:
5. Daucus carota	10	No	UPL	1 - Rapid Test for Hydrophytic Vegetation
6. Dipsacus fullonum	10	No	FACU	2 - Dominance Test is >50%
7. Solidago canadensis	10	No	FACU	3 - Prevalence Index is ≤3.0 ¹
8. Erigeron annuus	10	No	FACU	4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	105	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5)				be present, unless disturbed or problematic.
1.				
2.				Hydrophytic Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

SOIL								Sar	mpling Point:	SP-2
Profile Desc	ription: (Describe	to the dep	th needed to doc	ument tl	he indica	ator or c	confirm the absence	of indicators	.)	
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-8	10YR 4/3	100					Loamy/Clayey			
				·						
				·						
				·						
¹ Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, I	MS=Mas	ked Sand	Grains	. ² Locatio	n: PL=Pore Li	ning, M=Matri	Х.
Hydric Soil	ndicators:						Indicato	ors for Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)		Coa	st Prairie Red	ox (A16)	
Histic Ep	ipedon (A2)		Sandy Re	dox (S5)			Iron	-Manganese N	lasses (F12)	
Black His	stic (A3)		Stripped N	Aatrix (Se	6)		Red	Parent Materi	al (F21)	
Hydroger	n Sulfide (A4)		Dark Surfa	ace (S7)			Ven	y Shallow Dark	Surface (F22	2)
Stratified	Layers (A5)		Loamy Mu	ucky Mine	eral (F1)		Oth	er (Explain in F	Remarks)	
2 cm Mu	ck (A10)		Loamy Gl	eyed Mat	trix (F2)					
Depleted	Below Dark Surface	e (A11)	Depleted I	Matrix (F	3)					
Thick Da	rk Surface (A12)		Redox Da	rk Surfac	ce (F6)		³ Indicate	ors of hydrophy	tic vegetation/	and
Sandy M	ucky Mineral (S1)		Depleted I	Dark Sur	face (F7)		wet	and hydrology	must be pres	ent,
5 cm Mu	cky Peat or Peat (S3	3)	Redox De	pression	s (F8)		unle	ess disturbed o	r problematic.	
Restrictive L	_ayer (if observed):									
Туре:	Hardpa	n								
Depth (in	iches):	8					Hydric Soil Preser	nt?	Yes	No X
	GY									
Wetland Hvg	drology Indicators:									
Primary Indic	ators (minimum of c	ne is requi	red; check all that	apply)			Seconda	ary Indicators (minimum of t	wo required)
Surface	Water (A1)		Water-Sta	ined Lea	aves (B9)		Sur	face Soil Crack	(B6)	,
High Wa	ter Table (A2)		Aquatic Fa	auna (B1	3)		Dra	inage Patterns	(B10)	
Saturatio	n (A3)		True Aqua	atic Plant	s (B14)		 Dry-	-Season Water	Table (C2)	
Water Ma	arks (B1)		Hydrogen	Sulfide (Odor (C1)	Cra	yfish Burrows ((C8)	
Sedimen	t Deposits (B2)		Oxidized F	Rhizosph	eres on l	iving Ro	oots (C3) Sate	uration Visible	on Aerial Ima	gery (C9)
Drift Dep	osits (B3)		Presence	of Reduc	ced Iron (C4)	Stu	nted or Stresse	ed Plants (D1)	
Algal Ma	t or Crust (B4)		Recent Irc	on Reduc	tion in Ti	lled Soil	s (C6) Geo	omorphic Positi	ion (D2)	
Iron Dep	osits (B5)		Thin Muck	Surface	e (C7)		FAC	C-Neutral Test	(D5)	
Inundatio	on Visible on Aerial I	magery (B7	') Gauge or	Well Dat	a (D9)					
Sparsely	Vegetated Concave	Surface (E	38)Other (Ex	plain in F	Remarks)		•			
Field Observ	vations:									
Surface Wate	er Present? Ye	s	No <u>X</u>	Depth (i	nches):					
Water Table	Present? Ye	s	No <u>X</u>	Depth (i	nches):			_		
Saturation Pr	resent? Ye	s	No <u>X</u>	Depth (i	nches):		Wetland Hydrold	ogy Present?	Yes	No <u>X</u>
(includes cap	onary tringe)				nnouleu	- inc	tiono) if overlighter			
Describe Red	corded Data (stream	gauge, mo	onitoring well, aena	ai priotos	, previou	sinspec	alons), ir available:			
Remarks:										

Project/Site: I-69/SR 14 Interchange (Des. No.: 1800091)	City/County: Fort Wayne	City/County: Fort Wayne, Allen County			/19
Applicant/Owner: Indiana Department of Transportation		State: IN	Sampling Po	oint:	SP-3
Investigator(s): M. Kestner & M. Aldridge	Section, Township, Range	S6 T30N R1	2E		
Landform (hillside, terrace, etc.): Embankment	Local relief (conc	ave, convex, no	one): <u>None</u>		
Slope (%): 10 Lat: 41.074695	Long: -85.223343		Datum: NAD 8	33	
Soil Map Unit Name: Eel Silt Loam (Es)		NWI c	lassification: N/A		
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X N	lo(If no	o, explain in Remark	(S.)	
Are Vegetation X , Soil X , or Hydrology X significantly	v disturbed? Are "Normal Circu	imstances" pres	sent? Yes X	No	
Are Vegetation, Soil, or Hydrologynaturally pr	oblematic? (If needed, explain	n any answers i	n Remarks.)		
SUMMARY OF FINDINGS – Attach site map show	ing sampling point locat	ions, transe	ects, important	features	s, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No Remarks: Wetland 2	Is the Sampled Area within a Wetland?	Yes_	<u>X No </u>		
Absolute	Dominant Indicator				
Tree Stratum (Plot size: 30) % Cover	Species? Status D	ominance Tes	t worksheet:		
1. 2.	N A	umber of Domi re OBL, FACW	nant Species That , or FAC:	1	(A)
3. 4.	T	otal Number of cross All Strata	Dominant Species	1	(B)
5	=Total Cover A	ercent of Domin re OBL, FACW	nant Species That , or FAC:	100.0%	_(A/B)
1.	P	revalence Inde	ex worksheet:		
2.		Total % Cov	ver of: Mu	ltiply by:	

Sapling/Shruh Stratum (Plot size: 15)				, O O D L, I / IO I I,	011710.		100.070	_(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<u>Saping/Shido Stratum</u> (Plot Size. <u>15</u>) 1		<u></u>		Prevalence Index	k works	heet:		
2		. <u> </u>		Total % Cove	er of:	Mul	tiply by:	_
3				OBL species	0	x 1 =	0	_
4				FACW species	120	x 2 =	240	
5				FAC species	0	x 3 =	0	
		=Total Cover		FACU species	0	x 4 =	0	
Herb Stratum (Plot size: 5)				UPL species	0	x 5 =	0	
1. Phragmites australis	120	Yes	FACW	Column Totals:	120	(A)	240	(B)
2.				Prevalence Ind	ex = B/	A = 2	2.00	
3.								
4.				Hydrophytic Veg	etation	Indicators:		
5.				X 1 - Rapid Tes	t for Hyd	Irophytic Ve	getation	
6.				X 2 - Dominanc	e Test is	s >50%		
7.				X 3 - Prevalence	e Index i	s ≤3.0 ¹		
8.				4 - Morpholog	jical Ada	ptations ¹ (F	rovide su	pporting
9.				data in Rer	marks or	on a separ	ate sheet)	
10.				Problematic H	- - lydrophy	/tic Vegetat	ion ¹ (Expl	ain)
	120	=Total Cover		¹ Indicators of hydr		nd wetland	vdrology	must
Woody Vine Stratum (Plot size: 5)				be present, unless	s disturb	ed or proble	ematic.	must
1.				l hada a ha ti a				
2.				Hydrophytic				
		=Total Cover		Present? Y	/es <u>X</u>	No		
Remarks: (Include photo numbers here or on a separate	sheet.)							

SOIL

	· · · · · · · · · · · ·		Jui needed to dot	sument the inc			i malcators.)
Depth	Matrix		Red	ox Features			
inches)	Color (moist)	%	Color (moist)	% Тур	e ¹ Loc ²	Texture	Remarks
0-12	10Y 5/1	100				Loamy/Clayey	
						·	
		· ·				· ·	
		· ·				·	
						·	
		<u> </u>					
ype: C=C	oncentration, D=Dep	letion, RM	Reduced Matrix,	MS=Masked S	and Grains	. ² Location:	PL=Pore Lining, M=Matrix.
ydric Soil	Indicators:					Indicators	for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gl	eyed Matrix (S	4)	Coast	Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Re	∋dox (S5)		Iron-N	langanese Masses (F12)
Black Hi	istic (A3)		Stripped I	Matrix (S6)		Red P	arent Material (F21)
Hydroge	en Sulfide (A4)		Dark Surf	iace (S7)		Very S	Shallow Dark Surface (F22)
Stratified	d Layers (A5)		Loamy M	ucky Mineral (F	=1)	Other	(Explain in Remarks)
2 cm Mu	uck (A10)		X Loamy G	leyed Matrix (F	2)		
Deplete	d Below Dark Surface	e (A11)	Depleted	Matrix (F3)			
Thick Da	ark Surface (A12)		Redox Da	ark Surface (F6	5)	³ Indicators	of hydrophytic vegetation and
Sandy N	/lucky Mineral (S1)		Depleted	Dark Surface ((F7)	wetlar	d hydrology must be present,
5 cm Mu	ucky Peat or Peat (S	3)	Redox De	epressions (F8))	unless	disturbed or problematic.
lestrictive	Layer (if observed):	,					
Type:	Layer (if observed): Hardpa	n					
Type: Depth (in Remarks:	Layer (if observed): Hardpa nches):	n 12				Hydric Soil Present?	? Yes <u>X</u> No_
testrictive Type: Depth (i Remarks:	Layer (if observed): Hardpa nches):	n 12				Hydric Soil Present?	? Yes <u>X</u> No_
Ypre: Depth (i emarks:	Layer (if observed): Hardpa nches):	n12				Hydric Soil Present?	? Yes <u>X</u> No_
YDROLC	Layer (if observed): Hardpa nches): DGY	: <u>12</u>				Hydric Soil Present?	? Yes <u>X</u> No_
Ype: Depth (i Depth Semarks: YDROLC Vetland Hy Primary Indi	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of c	n 12 12 yne is requ	ired; check all that			Hydric Soil Present?	Yes X No
estrictive Type: Depth (i emarks: YDROLC /etland Hy rimary Indi Surface	Layer (if observed): Hardpa nches): OGY odrology Indicators: cators (minimum of o Water (A1)	n 12 12 ne is requ	ired; check all that Water-Sta	<u>apply)</u>	B9)	Hydric Soil Present?	Yes X No <u>VIndicators (minimum of two requir</u> the Soil Cracks (B6)
estrictive Type: Depth (i emarks: YDROLC /etland Hy rimary Indi Surface <high td="" wa<=""><td>Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2)</td><td>n 12 12 yne is requ</td><td><u>ired; check all that</u> Water-Sta Aquatic F</td><td>ained Leaves (I auna (B13)</td><td>B9)</td><td>Hydric Soil Present?</td><td>Yes X No <u>VIndicators (minimum of two requir</u> Se Soil Cracks (B6) age Patterns (B10)</td></high>	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2)	n 12 12 yne is requ	<u>ired; check all that</u> Water-Sta Aquatic F	ained Leaves (I auna (B13)	B9)	Hydric Soil Present?	Yes X No <u>VIndicators (minimum of two requir</u> Se Soil Cracks (B6) age Patterns (B10)
estrictive Type: Depth (i emarks: YDROLC /etland Hy rimary Indi Surface < High Wa < Saturatio	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3)	n 12 12 yne is requ	<u>ired; check all that</u> Water-Sta Aquatic F	<u>: apply)</u> ained Leaves (I auna (B13) atic Plants (B1	B9) 4)	Hydric Soil Present?	Yes X No <u>A Indicators (minimum of two requir</u> the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2)
rimary Indi Surface (Mathematical Contempts of the second Contempt of the	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) farks (B1)	n 12 12 yne is requ	ired; check all that Water-Sta Aquatic F True Aqu Hydrogen	<u>: apply)</u> ained Leaves (I [:] auna (B13) atic Plants (B14 ı Sulfide Odor (B9) 4) (C1)	Hydric Soil Present?	<u>Pyes X No</u> <u>A Indicators (minimum of two requir</u> se Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8)
estrictive Type: Depth (i emarks: YDROLC /etland Hy rimary Indi Surface < High Wa Saturatio Water M Sedimer	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)	n 12 12 one is requ	ired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized	<u>: apply)</u> ained Leaves (I auna (B13) atic Plants (B14 ⊨ Sulfide Odor (Rhizospheres o	B9) 4) (C1) on Living R	Hydric Soil Present?	Yes X No VINDER STATES (MINIMUM OF TWO REQUIN A INDICATORS (MINIMUM OF TWO REQUIN A INDICATORS (B10) A INDICATOR (B10) A
Estrictive Type: Depth (i Lemarks: YDROLC Vetland Hy rimary Indi Surface X High Wa X Saturatio Water M Sedimer Drift Dep	Layer (if observed): Hardpa nches): OGY odrology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3)	n 12 12 yne is requ	ired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence	<u>apply)</u> ained Leaves (I auna (B13) atic Plants (B14) Sulfide Odor (Rhizospheres o	B9) 4) (C1) on Living R on (C4)	Hydric Soil Present?	<u>Yes X No</u> <u>VIndicators (minimum of two requin</u> ce Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9 ed or Stressed Plants (D1)
estrictive Type: Depth (i emarks: YDROLC /etland Hy rimary Indi Surface { High Wa { Saturatio Water M Sedimen Drift Dep Algal Ma	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	n 12 12 yne is requ	ired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In	ained Leaves (I auna (B13) atic Plants (B14) Sulfide Odor (Rhizospheres of of Reduced Into on Reduction in	B9) 4) (C1) on Living R on (C4) n Tilled Soil	Hydric Soil Present?	Yes X No VINDER
estrictive Type: Depth (i emarks: YDROLC /etland Hy rimary Indi Surface (High Wa (Saturation Water M Sedimen Drift Dep Algal Ma Iron Dep	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	n 12 12 yne is requ	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muc	<u>: apply)</u> ained Leaves (I auna (B13) atic Plants (B14) sulfide Odor (Rhizospheres of of Reduced In on Reduction ir k Surface (C7)	B9) 4) (C1) on Living R on (C4) n Tilled Soil	Hydric Soil Present?	P Yes X No VINDICATORS (minimum of two requires the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5)
estrictive Type: Depth (i emarks: YDROLC Yetland Hy rimary Indi Surface C High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundati	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I	n 12 ne is requ	ired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or	ained Leaves (I auna (B13) atic Plants (B14) Sulfide Odor (Rhizospheres of of Reduced Ind on Reduction ir k Surface (C7) Well Data (D9	B9) 4) (C1) on Living R on (C4) n Tilled Soil	Hydric Soil Present?	P Yes X No / Indicators (minimum of two requires the Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9) ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5)
estrictive Type: Depth (i emarks: YDROLO YDROLO Yetland Hy rimary Indi Surface K High Wa K Saturatid Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave	n <u>12</u> <u>ne is requ</u> <u>ne is requ</u> <u>surface (</u>	ired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex	ained Leaves (I auna (B13) atic Plants (B14) Sulfide Odor (Rhizospheres of of Reduced Int on Reduction in k Surface (C7) Well Data (D9 plain in Remar	B9) (C1) on Living R on (C4) n Tilled Soil	Hydric Soil Present?	Yes X No <u>VIndicators (minimum of two requin</u> Se Soil Cracks (B6) age Patterns (B10) eason Water Table (C2) sh Burrows (C8) ation Visible on Aerial Imagery (C9 ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5)
	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave rvations:	n 12 one is requ one is requ Surface (iired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex	t apply) ained Leaves (I auna (B13) atic Plants (B14) atic Plants (B14) Sulfide Odor (Rhizospheres of of Reduced Ind on Reduction in k Surface (C7) Well Data (D9 plain in Remar	B9) 4) (C1) on Living R on (C4) n Tilled Soil)) rks)	Hydric Soil Present?	Yes X No VINDEXTORMENT AND A CONTRACTOR NOT A CONTRACTOR A CONTRACTOR A CONTRACTOR A CONTRACTOR A CONTRACTOR A CONTRACTOR A C
	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave rvations: ter Present? Ye	magery (B Surface ()	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex No X	t apply) ained Leaves (l auna (B13) atic Plants (B14) Sulfide Odor (Rhizospheres of of Reduced Ind on Reduction ir k Surface (C7) Well Data (D9 plain in Remar Depth (inches	B9) 4) (C1) on Living R on (C4) n Tilled Soil)) rks) s):	Hydric Soil Present?	Yes X No / Indicators (minimum of two requires / Indicators (minimum of two requires / Indicators (B10) // Ind
estrictive Type: Depth (ii Depth (ii demarks: YDROLC Yetland Hy rimary Indi Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundati Sparsely ield Obser urface Wai Vater Table	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave rvations: ter Present? Ye	magery (B Surface (ss	iired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex No X No	t apply) ained Leaves (l auna (B13) atic Plants (B14) sulfide Odor (Rhizospheres of of Reduced Iro on Reduction ir k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches	B9) 4) (C1) on Living R on (C4) n Tilled Soil)) rks) :	Hydric Soil Present?	Pres_X_No_ Pres_X
	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave rvations: ter Present? Ye Present? Ye	magery (B Surface (s s X s X	iired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex No X No No	t apply) ained Leaves (l auna (B13) atic Plants (B14) atic Plants (B14) Sulfide Odor (Rhizospheres (of Reduced Irc on Reduction ir k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches Depth (inches	B9) 4) (C1) on Living R on (C4) n Tilled Soil 1) rks) 5): 5): 5):	Hydric Soil Present?	Yes X No Yes X No Yes X No Yes X No Yes Yes X No Yes Yes X No
	Layer (if observed): Hardpa nches): OGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial I y Vegetated Concave rvations: ter Present? Ye Present? Ye pillary fringe)	magery (B sone is required sone is required s	iired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex No No No	t apply) ained Leaves (I auna (B13) atic Plants (B14) Sulfide Odor (Rhizospheres of of Reduced Irr on Reduction ir k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches Depth (inches	B9) (C1) on Living R on (C4) n Tilled Soil)) rks) s): 1 s): 1 s): 1 (C1)	Hydric Soil Present? Secondary Surfac Draina Dry-Se Crayfit s (C6) Sturte X FAC-N Wetland Hydrology	Yes X No Yes X No Yes X No Yes X No Yes Soil Cracks (B6) Age Patterns (B10) Passon Water Table (C2) Sh Burrows (C8) Ation Visible on Aerial Imagery (C9 ed or Stressed Plants (D1) orphic Position (D2) Neutral Test (D5) Yes X No
	Layer (if observed): Hardpa nches): DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2) oosits (B3) at or Crust (B4) bosits (B5) on Visible on Aerial I y Vegetated Concave rvations: ter Present? Ye Present? Ye pillary fringe) coorded Data (stream	magery (B > Surface (> Surface (> S S S S S S S S S S S S S S	iired; check all that Water-Sta Aquatic F True Aqu Hydrogen Oxidized Presence Recent In Thin Muc 7) Gauge or B8) Other (Ex No X No No No 0	t apply) ained Leaves (l auna (B13) atic Plants (B14) sulfide Odor (Rhizospheres of of Reduced Iro on Reduction ir k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches Depth (inches al photos, prev	B9) 4) (C1) on Living R on (C4) n Tilled Soil i) (ks) s): s): s): s): rious inspec	Hydric Soil Present?	Yes X No Yes X No

Project/Site: I-69/SR 14 Interchange (Des. No.: 1800091)	City/County: Fort Wa	ayne, Aller	n County	Sampling Date:	9/25/19
Applicant/Owner: Indiana Department of Transportation		Sta	te: IN	Sampling Point:	SP-4
Investigator(s): M. Kestner & M. Aldridge	Section, Township, Ra	ange: <u>S6</u>	T30N R12E		
Landform (hillside, terrace, etc.): Embankment	Local relief ((concave, c	onvex, none)	: None	
Slope (%): 10 Lat: 41.074682	Long: -85.223374			Datum: NAD 83	
Soil Map Unit Name: Eel Silt Loam (Es)			NWI class	ification: N/A	
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes <u>X</u>	No	(If no, ex	plain in Remarks.)	
Are Vegetation X , Soil X , or Hydrology X significantly distu	Irbed? Are "Normal	Circumstar	nces" present	? Yes <u>X</u> No	D
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If needed, ex	xplain any	answers in R	emarks.)	
SUMMARY OF FINDINGS – Attach site map showing s	sampling point lo	ocations	, transect	s, important fea	tures, etc.
Hydrophytic Vegetation Present? Yes No X	Is the Sampled A	Area			
Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X	within a Wetland	1?	Yes	<u>No X</u>	

Remarks:

Upland to Wetland 2

	F	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30	_) _%	% Cover	Species?	Status	Dominance Test worksheet:
1					Number of Dominant Species That
2					Are OBL, FACW, or FAC: 1 (A)
3.					Total Number of Dominant Species
4					Across All Strata: <u>3</u> (B)
5			. <u></u> _		Percent of Dominant Species That
	_		=Total Cover		Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
Sapling/Shrub Stratum (Plot size:	15)				
1					Prevalence Index worksheet:
2.					Total % Cover of: Multiply by:
3.					OBL species 0 x 1 = 0
4.					FACW species 0 x 2 = 0
5.					FAC species $20 \times 3 = 60$
			=Total Cover		FACU species 70 x 4 = 280
Herb Stratum (Plot size: 15) —				UPL species 0 x 5 = 0
1. Schedonorus arundinaceus	_ `	20	Yes	FACU	Column Totals 90 (A) 340 (B)
2. Plantago major		20	Yes	FAC	Prevalence Index = $B/A = 3.78$
3. Lolium perenne		20	Yes	FACU	
4 Lotus corniculatus		15	No	FACU	Hydrophytic Vegetation Indicators:
5 Taraxacum officinale	·	15	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
6		10			2 - Dominance Test is >50%
7					$3 - $ Prevalence Index is $\leq 30^{1}$
8					4 - Morphological Adaptations ¹ (Provide supporting
0					data in Remarks or on a separate sheet)
9 10					Problematic Hydrophytic Vegetation ¹ (Explain)
		90	=Total Cover		Indicators of hydric coil and watered hydrology must
Woody Vine Stratum (Plot size:	5)				be present unless disturbed or problematic
1	/				
2					Hydrophytic
			=Total Cover		Present? Yes No X
Pomarka: (Include photo numbers here or or		choot)			
Remarks. (include prioto numbers here of of	i a sepaiale	; sneet.)			

SOIL								Sar	mpling Point:	SP-4
Profile Des	cription: (Describe	to the dept	th needed to doc	cument t	he indic:	ator or (confirm the absence	of indicators	.)	
Depth	Matrix	-	Redo	ox Featur	res					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-7	10YR 4/3	100					Loamy/Clayey	·		
				•						
	r	·			·					
		·			·					
	,						<u></u>			
¹ Type [·] C=C	oncentration D=Den	letion RM=	Reduced Matrix	MS=Mas	sked San	d Grains		n [.] PI =Pore Li	ning M=Matr	ix
Hydric Soil	Indicators:							ors for Proble	matic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gl	eved Ma	trix (S4)		Coa	ast Prairie Red	nx (A16)	Uche :
Histic Er	ninedon (A2)		Sandy Re	adox (S5))		Iron	-Manganese N	Asses (F12)	
Black Hi	istic (A3)		Stripped I	Matrix (S	6)		Rec	Parent Materi	al (F21)	
Hvdroge	n Sulfide (A4)		Dark Surf	iace (S7)			Ver	v Shallow Dark	Surface (F2)	2)
Stratifier	d Lavers (A5)		Loamy Mr	uckv Min	eral (F1)		Oth	er (Explain in F	Remarks)	-)
2 cm Mi	ick (A10)		Loamy GI	leved Ma	trix (F2)				toma,	
Depleter	d Below Dark Surface	e (A11)	Depleted	Matrix (F	-3)					
Thick Da	ark Surface (A12)	, (,	Redox Da	ark Surfa	ce (F6)		³ Indicate	ors of hydrophy	vtic vegetatior	ו and
Sandy M	Aucky Mineral (S1)		Depleted	Dark Sur	rface (F7))	wet	land hydrology	must be pres	sent.
5 cm Mi	uckv Peat or Peat (S	3)	Redox De	epression	ıs (F8)		unle	ess disturbed o	r problematic	
Restrictive	l aver (if observed)			<u> </u>						
Type [.]	Hardna	'n								
Depth (i	nches).	7					Hydric Soil Prese	nt?	Yes	No X
			<u> </u>							
Nomania.										
)GY									
Wetlend Liv										
Drimon (Indi	drology indicators:		radi abaali all that	t on all (Cocord	on Indiantora (minimum of t	we required)
Primary Indi	Victor (A1)	me is requir	Votor St	apply)	(P0)		<u>Seconda</u>	ary indicators (<u>minimum of t</u>	wo required)
	valer (AT)				1765 (D9)			inogo Dottorno	(D10)	
	$A(A_2)$			auria (Di	13) te (P14)			Socon Wate	(D U) r Table (C2)	
	Jir (AJ) Jarks (B1)		Hydrogen		Odor(C1)	`	Dry-	vfieb Burrowe (
Sedimer	nt Denosits (B2)			Rhizosoł		/ Livina R	$\frac{-1}{2}$	uration Visible	on Aerial Ima	aery (C9)
Drift Der	nosits (B3)		Presence	of Redu	ced Iron	(C.4)	Stur	nted or Stresse	ed Plants (D1))
Algal Ma	at or Crust (B4)		Recent Irr	on Reduc	ction in T	lled Soi	uls (C6) Geo	mornhic Posit	ion (D2)	/
Iron Der	nosits (B5)		Thin Muc	k Surface	≏ (C7)	104 00.	FAC	-Neutral Test	(D5)	
Inundati	on Visible on Aerial I	magery (B7	Gauge or	Well Da	ta (D9)			J'Houtin . ec.	(00)	
Sparsely	v Vegetated Concave	Surface (B	38) Other (Ex	colain in F	Remarks)	l				
Field Obser	rvations:		·/	<u> </u>			1			
Surface Wat	ter Present? Ye	20	No X	Denth (inches):					
Water Table	Present? Ye	<u> </u>		Depth (inches):					
Saturation P	Present? Ye	<u>,8</u>	No X	Depth (inches):		Wetland Hydrold	oav Present?	Yes	No X
(includes ca	pillary fringe)	~ <u> </u>						- 57		
Describe Re	corded Data (stream	gauge, mo	nitoring well, aeria	al photos	s. previou	s inspec	ctions), if available:			
		0 0 0			<i>.</i>		··· /·			
Remarks:										

Project/Site: I-69/SF	र 14 Interchange (Des. No.: 1800091)	City/County: Fort Wayr	ne, Allen County	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Department of Transportation		State: IN	Sampling Point:	SP-5
Investigator(s): M. K	estner & M. Aldridge	Section, Township, Rang	je: S7 T30N R12E		
Landform (hillside, to	errace, etc.): Ditch	Local relief (cor	ncave, convex, none):	Concave	
Slope (%): 10	Lat: 41.074281	Long: <u>-85.224681</u>		Datum: NAD 83	
Soil Map Unit Name	: Eel Silt Loam (Es)		NWI class	ification: N/A	
Are climatic / hydrol	ogic conditions on the site typical for this time of ye	ear? Yes X	No (If no, ex	plain in Remarks.)	
Are Vegetation X	, Soil X , or Hydrology X significantly dist	urbed? Are "Normal Cir	cumstances" present	? Yes <u>X</u> No	o
Are Vegetation	, Soil, or Hydrologynaturally probler	natic? (If needed, expl	ain any answers in Re	emarks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampling point loc	ations, transects	s, important fea	tures, etc.
Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology	ation Present? Yes X No t? Yes X No v Present? Yes X No	Is the Sampled Area within a Wetland?	a Yes <u>X</u>	No	
Remarks: Wetland 3		·			
VEGETATION -	- Use scientific names of plants.				
Tree Stratum	(Plot size: 30) Absolute D % Cover S	ominant Indicator Species? Status	Dominance Test wo	rksheet:	
1. 2.			Number of Dominant Are OBL, FACW, or I	Species That FAC:	1 (A)
3.			Total Number of Dem	ninant Spanica	

Remarks: (Include photo numbers here or on a separate s	sheet.)	
1. 2.	=Total Cover	Hydrophytic Vegetation Present? Yes <u>X</u> No
Woody Vine Stratum (Plot size: 5)	120 =Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10		Problematic Hydrophytic Vegetation ¹ (Explain)
9.		data in Remarks or on a separate sheet)
8.		4 - Morphological Adaptations ¹ (Provide supporting
7.		\overline{X} 3 - Prevalence Index is $\leq 3.0^{1}$
6.		X 2 - Dominance Test is >50%
		X 1 - Rapid Test for Hydrophytic Vegetation
4		Hydrophytic Vegetation Indicators:
<u> </u>		Prevalence index = D/A = 1.00
1. Typna angustifolia	120 Yes OBL	Column Lotals: 120 (A) 120 (B)
Herb Stratum (Plot size: 15)	100	UPL species $0 \times 5 = 0$
— —	=Total Cover	FACU species $0 x 4 = 0$
5		FAC species x 3 =
4		FACW species 0 x 2 = 0
3		OBL species 120 x 1 = 120
2		Total % Cover of: Multiply by:
1		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		
5	=Total Cover	Percent of Dominant Species That
4		Across All Strata: <u>1</u> (B)
3		Total Number of Dominant Species
2.		Are OBL, FACW, or FAC: 1 (A)

SOIL	
------	--

Sampling Point: SP-5

Profile Desc	cription: (Descri	be to the dept	h needed to doc	ument t	ne indica	tor or c	confirm the absence	of indicators.)
Depth	Matrix	<	Redo	ox Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10Y 4/1	80	7.5YR 5/8	20	С	М	Loamy/Clayey	Prominent redox concentrations
				- <u> </u>				
<u> </u>				•				
¹ Type: C=Ce	oncentration, D=D	epletion, RM=I	Reduced Matrix,	MS=Mas	ked Sand	Grains	2Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Mat	rix (S4)		? Coas	t Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy Re	dox (S5)			Iron-I	Manganese Masses (F12)
Black Hi	stic (A3)		Stripped N	Matrix (S6	3)		Red I	Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surf	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	l Layers (A5)		Loamy Mu	ucky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ick (A10)		X Loamy Gl	eyed Mat	rix (F2)			
Depleted	Below Dark Surf	ace (A11)	Depleted	Matrix (F	3)			
Thick Da	ark Surface (A12)		Redox Da	irk Surfac	e (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S1))	Depleted	Dark Sur	face (F7)		wetla	nd hydrology must be present,
5 cm Mu	icky Peat or Peat	(S3)	Redox De	pression	s (F8)		unles	s disturbed or problematic.
Restrictive	Layer (if observe	d):						
Туре:	Hard	pan						
Depth (ir	nches):	12					Hydric Soil Present	? Yes <u>X</u> No
Remarks:								
HYDROLO	OGY							
Wetland Hy	drology Indicato	rs:						
Primary India	cators (minimum o	of one is require	ed; check all that	apply)			<u>Secondar</u>	y Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ained Lea	ves (B9)		Surfa	ce Soil Cracks (B6)
High Wa	iter Table (A2)		Aquatic F	auna (B1	3)		Drain	age Patterns (B10)
X Saturatio	on (A3)		True Aqua	atic Plant	s (B14)		Dry-S	Season Water Table (C2)
Water M	arks (B1)		Hydrogen	Sulfide (Odor (C1)		Crayf	ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosph	eres on l	iving Ro	oots (C3) Satur	ration Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Presence	of Reduc	ed Iron (C4)	Stunt	ed or Stressed Plants (D1)
	it or Crust (B4)		Recent Iro	on Reduc		led Soil	s (C6) <u>X</u> Geon	norphic Position (D2)
Iron Dep	osits (B5)			k Surface	(C7)		X FAC-	Neutral Test (D5)
		ai imagery (B7)) Gauge or	vveli Dat	a (D9) Iomorko)			
Sparsery	vegetated Conca				emarks)			
Field Obser	vations:			Dauth (
Surface wat	er Present?	Yes		Depth (I	ncnes):			
Saturation D	resent?	Ves Y		Depth (I		0	Wotland Hydrolog	w Prosent? Ves Y No
(includes car	nillary fringe)		NO	Deptii (I		0		y resent: 165 <u>A</u> NU
Describe Re	corded Data (stre	am gauge mor	nitoring well aeria	al photos	previous	sinspec	tions) if available.	
		gaage, moi			,		, n aranabio.	
Remarks:								

Project/Site: I-69/SR	14 Interchange	e (Des. No.: 180	0091)	City/Co	unty: Fort Wayne	e, Allen Co	ounty	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Depar	tment of Transp	ortation			State:	IN	Sampling Point:	SP-6
Investigator(s): M. Ke	stner & M. Ald	ridge		Section,	Township, Range	e: <u>S7 T30</u>)N R12E		
Landform (hillside, te	rrace, etc.): <u>E</u> r	mbankment			Local relief (cond	cave, conv	vex, none):	None	
Slope (%): 10	Lat: 41.0742	99		Long:	-85.224652			Datum: NAD 83	
Soil Map Unit Name:	Eel Silt Loam	(Es)				. <u> </u>	NWI classi	fication: N/A	
Are climatic / hydrolo	gic conditions	on the site typica	al for this time of ye	ear?	Yes X	No	(If no, exp	olain in Remarks.)	
Are Vegetation X	, Soil <u>X</u> , c	or Hydrology X	significantly dist	urbed?	Are "Normal Circ	umstances	s" present?	Yes <u>X</u> No	<u></u> د
Are Vegetation	, Soil, c	or Hydrology	naturally probler	natic?	(If needed, explai	in any ans	wers in Re	marks.)	
SUMMARY OF F	INDINGS -	Attach site	map showing	sampli	ng point loca	tions, tr	ansects	, important fea	tures, etc.
Hydrophytic Vegeta Hydric Soil Present?	tion Present?	Yes Yes	No <u>X</u> No <u>X</u>	ls th with	e Sampled Area in a Wetland?	,	Yes	No <u>X</u>	
Wetland Hydrology	Present?	Yes	No X						

Remarks:

Upland to Wetland 3

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1		.		Number of Dominant Species That
2		<u></u>		Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species
4		<u> </u>		Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)			
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 0 x 2 = 0
5.				FAC species 0 x 3 = 0
		=Total Cover		FACU species 125 x 4 = 500
Herb Stratum (Plot size: 15)		•		UPL species $0 \times 5 = 0$
1. Festuca pratensis	50	Yes	FACU	Column Totals: 125 (A) 500 (B)
2. Lolium perenne	30	Yes	FACU	Prevalence Index = B/A = 4.00
3. Trifolium repens	30	Yes	FACU	
4. Dipsacus fullonum	10	No	FACU	Hydrophytic Vegetation Indicators:
5. Asclepias verticillata	5	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.		•		4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				Problematic Hydrophytic Vegetation ¹ (Explain)
	125	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5)	•		be present, unless disturbed or problematic.
1				Hydrophytic
2.				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

								· • •	
Profile Desc	cription: (Describe	to the dep	oth needed to doc	ument the in	dicator or	confirm the	absence of ind	licators.)	
Depth	Matrix		Redo	ox Features					
(inches)	Color (moist)	%	Color (moist)	% Тур	be ¹ Loc ²	Text	ure	Remarks	
0-12	10YR 5/2	100				Loamy/	Clayey		
						. <u> </u>			
		·							
		·		·					
¹ Type: C=Co	oncentration, D=Dep	letion, RM:	=Reduced Matrix, I	MS=Masked S	Sand Grain	<u> </u>	² Location: PL=	Pore Lining, M=Matri	x.
Hydric Soil	Indicators:						Indicators for	Problematic Hydric	Soils ³ :
Histosol	(A1)		Sandy Gle	eyed Matrix (S	4)		Coast Prai	rie Redox (A16)	
Histic Ep	pipedon (A2)		Sandy Re	dox (S5)			Iron-Manga	anese Masses (F12)	
Black His	stic (A3)		Stripped N	∕latrix (S6)			Red Paren	t Material (F21)	
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Very Shall	ow Dark Surface (F22	2)
Stratified	J Layers (A5)		Loamy Mu	ucky Mineral (F	F1)		Other (Exp	lain in Remarks)	
2 cm Mu	ıck (A10)		Loamy Gle	eyed Matrix (F	2)				
Depleted	d Below Dark Surface	e (A11)	Depleted I	Matrix (F3)					
Thick Da	ark Surface (A12)		Redox Da	rk Surface (F6	6)		³ Indicators of h	ydrophytic vegetation	and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Surface	(F7)		wetland hy	drology must be pres	ent,
5 cm Mu	icky Peat or Peat (S3	3)	Redox De	pressions (F8)		unless dist	urbed or problematic	
Restrictive	Layer (if observed):								
Type:	Hardpar	n							
		·							
Depth (ir Remarks:	nches):	12	<u> </u>			Hydric So	vil Present?	Yes	No <u>X</u>
Depth (ir Remarks:	nches):	12				Hydric So	il Present?	Yes	No <u>X</u>
Depth (ir Remarks: HYDROLO	nches):	12				Hydric So	oil Present?	Yes	<u>No X</u>
Depth (ir Remarks: HYDROLO Wetland Hyd	nches):)GY drology Indicators:	12				Hydric Sc	il Present?	Yes	No <u>X</u>
Depth (ir Remarks: HYDROLO Wetland Hyd Primary India	nches):)GY drology Indicators: cators (minimum of o	12 Ine is requi	red; check all that	apply)		Hydric So	il Present?	Yes	No X
Depth (ir Remarks: HYDROLO Wetland Hyu Primary India Surface	NGY Indicators: <u>cators (minimum of c</u> Water (A1)	12 Ine is requi	ired; check all that Water-Sta	apply) iined Leaves ((B9)	Hydric Sc	il Present?	Yes	No X
Depth (ir Remarks: HYDROLO Wetland Hyd Primary India Surface High Wa	DGY drology Indicators: cators (minimum of o Water (A1) iter Table (A2)	12 yne is requi	i <u>red; check all that</u> Water-Sta Aquatic Fa	apply) ined Leaves (auna (B13)	(B9)	Hydric Sc	Secondary India Surface Sc Drainage F	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10)	No X
Depth (ir Remarks: HYDROLO Wetland Hyu Primary India Surface V High Wa Saturatic	DGY drology Indicators: cators (minimum of o Water (A1) iter Table (A2) on (A3)	12 me is requi	ired; check all that Water-Sta Aquatic Fa True Aqua	apply) iined Leaves (auna (B13) atic Plants (B1	(B9) 4)	Hydric Sc	Secondary Indi Surface Sc Drainage F Dry-Seaso	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2)	No X
Depth (ir Remarks: HYDROLC Wetland Hyd Primary India Surface High Wa Saturatic Water M	DGY drology Indicators: <u>cators (minimum of o</u> Water (A1) iter Table (A2) on (A3) larks (B1)	12	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor ((B9) (4) (C1)	Hydric Sc	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi	Yes <u>icators (minimum of tr</u> pil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8)	No X
Depth (ir Remarks: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimen	DGY drology Indicators: cators (minimum of o Water (A1) iter Table (A2) on (A3) arks (B1) it Deposits (B2)	12 yne is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres	(B9) 4) (C1) on Living F	Hydric So Roots (C3)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish B Saturation	Yes <u>icators (minimum of tr</u> bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Cracend Plante (D1)	No X
Depth (ir Remarks: HYDROLO Wetland Hyd Primary Indio Surface V High Wa Saturatic Water M Sedimen Drift Dep	DGY drology Indicators: cators (minimum of o Water (A1) iter Table (A2) on (A3) larks (B1) it Deposits (B2) posits (B3) it or Crust (B4)	12 me is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced In	(B9) (4) (C1) on Living F ron (C4)	Hydric Sc	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	Yes Cators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) is Position (D2)	No X
Depth (ir Remarks: HYDROLC Wetland Hy Primary India Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma	DGY drology Indicators: <u>cators (minimum of o</u> Water (A1) Iter Table (A2) on (A3) larks (B1) It Deposits (B2) posits (B3) It or Crust (B4)	12 me is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	apply) nined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced In n Reduction in Surface (C7)	(B9) 4) (C1) on Living F ron (C4) n Tilled So	Hydric Sc	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X
Depth (ir Remarks: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatir	DGY drology Indicators: <u>cators (minimum of o</u> Water (A1) iter Table (A2) on (A3) larks (B1) it Deposits (B2) posits (B3) it or Crust (B4) iosits (B5) on Visible on Aerial II	ne is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or	apply) iined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced Ir on Reduced Ir on Reduction in c Surface (C7) Well Data (D9	(B9) 4) (C1) on Living F ron (C4) n Tilled So)	Hydric Sc Roots (C3)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph FAC-Neutr	Yes <u>icators (minimum of tr</u> bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima- Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X
Depth (ir Remarks: HYDROLO Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	DGY drology Indicators: cators (minimum of c Water (A1) iter Table (A2) on (A3) larks (B1) it Deposits (B2) posits (B3) it or Crust (B4) iosits (B5) on Visible on Aerial In v Vegetated Concave	ne is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced In on Reduction in c Surface (C7) Well Data (D9 olain in Remar	(B9) (C1) on Living F ron (C4) n Tilled So))) rks)	Hydric So Roots (C3)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph FAC-Neutr	Yes <u>icators (minimum of tr</u> bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X
Depth (ir Remarks: HYDROLO Wetland Hyr Primary India Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely	DGY drology Indicators: cators (minimum of c Water (A1) iter Table (A2) on (A3) larks (B1) it Deposits (B2) posits (B3) it or Crust (B4) iosits (B5) on Visible on Aerial In v Vegetated Concave	12 one is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp	apply) ained Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced Ir on Reduction in c Surface (C7) Well Data (D9 plain in Reman	(B9) (C1) on Living F ron (C4) n Tilled So)) rks)	Hydric Sc Roots (C3)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or Geomorph FAC-Neutr	Yes <u>icators (minimum of tr</u> bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima- Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X
Depth (ir Remarks: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser	DGY drology Indicators: <u>cators (minimum of c</u> Water (A1) iter Table (A2) on (A3) larks (B1) it Deposits (B2) posits (B3) it or Crust (B4) posits (B5) on Visible on Aerial In v Vegetated Concave vations: er Present?	ne is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced In n Reduction in c Surface (C7) Well Data (D9 plain in Reman	(B9) 4) (C1) on Living F ron (C4) n Tilled So)) rks)	Hydric Sc	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	Yes cators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imae Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X
Depth (ir Remarks: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat	DGY drology Indicators: <u>cators (minimum of c</u> Water (A1) iter Table (A2) on (A3) larks (B1) it Deposits (B2) oosits (B3) it or Crust (B4) oosits (B5) on Visible on Aerial In ⁷ Vegetated Concave vations: er Present? Ye	magery (B7	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp No X	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced Ir on Reduction in c Surface (C7) Well Data (D9 plain in Remai Depth (inches Depth (inches	(B9) 4) (C1) on Living F ron (C4) n Tilled So) rks) s): s):	Hydric Sc Roots (C3)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph FAC-Neutr	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima- Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X
Depth (ir Remarks: HYDROLC Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P	DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) larks (B1) it Deposits (B2) oosits (B3) at or Crust (B4) iosits (B5) on Visible on Aerial In / Vegetated Concave vations: er Present? Ye present? Ye	12 magery (B7 Surface (B7 Surface (B7 Surface (B7 Surface (B7) Surface (B7) Sur	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp No X No X	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced Ir on Reduction in c Surface (C7) Well Data (D9 olain in Reman Depth (inches Depth (inches Depth (inches	(B9) (C1) (C1) on Living F ron (C4) n Tilled So) rks) s): s): s):	Hydric Sc Roots (C3) ils (C6)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph FAC-Neutr	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima- Stressed Plants (D1) ic Position (D2) ral Test (D5) esent? Yes	No X
Depth (ir Remarks: HYDROLO Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	DGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) losits (B5) on Visible on Aerial In v Vegetated Concave vations: er Present? Ye Present? Ye pillary fringe)	12 magery (B7 Surface (B7 Surface (B7 Surface (B7 Surface (B7 Surface (B7) Surface (B7) Surf	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp No X No X No X	apply) ained Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced Ir on Reduction is c Surface (C7) Well Data (D9 plain in Reman Depth (inches Depth (inches	(B9) (C1) on Living F on (C4) n Tilled So) rks) s): s): s):	Hydric So Roots (C3) ils (C6)	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bu Saturation Stunted or Geomorph FAC-Neutr	Yes teators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) ic Position (D2) ral Test (D5) esent? Yes	No X
Depth (ir Remarks: HYDROLC Wetland Hyr Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	OGY drology Indicators: cators (minimum of c Water (A1) ater Table (A2) on (A3) larks (B1) th Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In / Vegetated Concave vations: er Present? Ye Present? Ye pillary fringe) corded Data (stream	12 magery (B7 Surface (B Surface (B Surface (B Surface (B) Surface (B) Surfa	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp No X No X No X No X	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of Reduced Ir on Reduction in c Surface (C7) Well Data (D9 plain in Reman Depth (inches Depth (inches Depth (inches A photos, prev	(B9) 4) (C1) on Living F ron (C4) n Tilled So) rks) s): s): s): s):	Hydric So Roots (C3) Ils (C6) Wetland	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph FAC-Neutr	Yes cators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) ic Position (D2) ral Test (D5) esent? Yes	No X wo required
Depth (ir Remarks: HYDROLC Wetland Hy Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Red	DGY drology Indicators: <u>cators (minimum of c</u> Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In / Vegetated Concave vations: er Present? Ye Present? Ye present? Ye pillary fringe) corded Data (stream	12 magery (B7 Surface (E S s gauge, mo	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp No X No X No X No X	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor of Rhizospheres of Reduced In on Reduction in c Surface (C7) Well Data (D9 plain in Reman Depth (inches Depth (inches Depth (inches All photos, prev	(B9) 4) (C1) on Living F ron (C4) n Tilled So) rks) s): s): yious inspe	Hydric So Roots (C3) ils (C6) Wetland ctions), if ava	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or Geomorph FAC-Neutr	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) ic Position (D2) ral Test (D5)	No X wo required
Depth (ir Remarks: HYDROLC Wetland Hyd Primary India Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Red	DGY drology Indicators: <u>cators (minimum of c</u> Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial In / Vegetated Concave vations: :er Present? Ye Present? Ye present? Ye pillary fringe) corded Data (stream	12 magery (B7 Surface (B7 Su	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Exp No X No X No X No X	apply) ined Leaves (auna (B13) atic Plants (B1 Sulfide Odor) Rhizospheres of Reduced Ir on Reduction in c Surface (C7) Well Data (D9 plain in Reman Depth (inches Depth (inches Depth (inches al photos, prev	(B9) (C1) on Living F on (C4) n Tilled So) rks) s): s): s): vious inspe	Hydric So Roots (C3) ils (C6) Wetland ctions), if ava	Secondary Indi Surface So Drainage F Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph FAC-Neutr	Yes icators (minimum of tr bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Ima Stressed Plants (D1) ic Position (D2) ral Test (D5) esent? Yes	No X wo required

Project/Site: I-69/SR	14 Interchange	e (Des. No.: 180	00091)	City/County	Fort Wayne,	Allen Cou	inty	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Depart	tment of Transp	ortation			State:	IN	Sampling Point:	SP-7
Investigator(s): M. Ke	estner & M. Aldr	ridge		Section, Tow	nship, Range:	S6 T30	NR12E		
Landform (hillside, te	errace, etc.): Me	edian		Loc	al relief (conca	ve, conve	x, none):	Concave	
Slope (%): 2-6	Lat: 41.0747	56		Long: <u>-85</u> .	22546			Datum: NAD 83	
Soil Map Unit Name	Glynwood silt I	loam, 2 to 6 per	cent slopes, erode	d (MrB2)		N	WI classit	ication: N/A	
Are climatic / hydrold	ogic conditions of	on the site typic	al for this time of ye	ear? Ye	s <u>X</u> No)	(If no, exp	olain in Remarks.)	
Are Vegetation X	, Soil <u>X</u> , o	r Hydrology X	significantly dist	urbed? Are	"Normal Circun	nstances"	present?	Yes <u>X</u> No)
Are Vegetation	, Soil, o	r Hydrology	naturally problem	matic? (If n	eeded, explain	any answ	ers in Re	marks.)	
SUMMARY OF	FINDINGS -	Attach site	map showing	sampling	point locati	ons, tra	insects	, important fea	tures, etc.
Hydrophytic Vegeta Hydric Soil Present	ation Present? ?	Yes X Yes X	No No	Is the Sa within a	ampled Area Wetland?	Y	es_X_	No	

Hydric Soil Present?	Yes X No	within a Wetland?	Yes X No	
Wetland Hydrology Present?	Yes X No			
Remarks:				
Wetland 4				

				Absolute	Dominant	Indicator			
Tree Stratum	(Plot size:	30)	% Cover	Species?	Status	Dominance Test worksheet:		
1							Number of Dominant Species That		
2.							Are OBL, FACW, or FAC:	2	(A)
3.							Total Number of Dominant Species		
4.							Across All Strata:	2	(B)
5.							Percent of Dominant Species That		
					=Total Cover		Are OBL, FACW, or FAC:	100.0%	(A/B)
Sapling/Shrub Strat	<u>um</u> (Plot	size:	15)					
1							Prevalence Index worksheet:		
2.							Total % Cover of:Mu	Iltiply by:	
3.							OBL species 50 x 1 =	50	
4.							FACW species 0 x 2 =	0	-
5.							FAC species 100 x 3 =	300	-
					=Total Cover		FACU species 0 x 4 =	0	-
Herb Stratum	(Plot size:	15)				UPL species 0 x 5 =	0	-
1. Juncus tenuis				100	Yes	FAC	Column Totals: 150 (A)	350	(B)
2. Typha angustifo	olia			40	Yes	OBL	Prevalence Index = B/A =	2.33	-
3. Juncus effusus				10	No	OBL			-
4.							Hydrophytic Vegetation Indicators	s:	
5.							1 - Rapid Test for Hydrophytic V	'egetation	
6.							X 2 - Dominance Test is >50%		
7.							X 3 - Prevalence Index is $\leq 3.0^{1}$		
8.							4 - Morphological Adaptations ¹ (Provide sup	oporting
9.							data in Remarks or on a sepa	arate sheet)	
10.							Problematic Hydrophytic Vegeta	ation ¹ (Expla	ain)
				150	=Total Cover		¹ Indicators of hydric soil and wetland	hvdrology	must
Woody Vine Stratu	m (Plot	size:	5)			be present, unless disturbed or prob	lematic.	maor
1.	_ `		·				Lludron hutio		
2.							Vegetation		
					=Total Cover		Present? Yes X No		
Remarks: (Include	photo numbers	here or o	on a sepa	rate sheet.)					

SOIL	
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Sampling	Point:	SP-7

Profile Desc	cription: (Desci	ribe to the dept	th needed to doo	ument t	he indica	tor or o	confirm the absence	of indicators.)
Depth	Matr	ix	Redo	ox Featur	res			
(inches)	Color (mois	t) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-10	10YR 5/1	70	7.5YR 5/8	30	С	М	Loamy/Clayey	Prominent redox concentrations
				•				
¹ Type: C=C	oncentration, D=	Depletion, RM=	Reduced Matrix,	MS=Mas	ked Sand	I Grains	. ² Location	: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicator	s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gl	eyed Mat	rix (S4)		? Coas	t Prairie Redox (A16)
Histic Ep	oipedon (A2)		Sandy Re	dox (S5)			Iron-I	Manganese Masses (F12)
Black Hi	stic (A3)		Stripped I	Matrix (Se	6)		Red I	Parent Material (F21)
Hydroge	en Sulfide (A4)		Dark Surf	ace (S7)			Very	Shallow Dark Surface (F22)
Stratified	d Layers (A5)		Loamy M	ucky Mine	eral (F1)		Othe	r (Explain in Remarks)
2 cm Mu	ıck (A10)		Loamy Gl	eyed Ma	trix (F2)			
Depleted	d Below Dark Su	rface (A11)	X Depleted	Matrix (F	3)		\$	
Thick Da	ark Surface (A12)	Redox Da	irk Surfac	ce (F6)		³ Indicator	s of hydrophytic vegetation and
Sandy M	lucky Mineral (S	1)	Depleted	Dark Sur	face (F7)		wetla	nd hydrology must be present,
5 cm Mu	icky Peat or Pea	t (S3)	X Redox De	pression	s (F8)		unles	s disturbed or problematic.
Restrictive	Layer (if observ	ed):						
Туре:	Har	dpan						
Depth (ir	nches):	10					Hydric Soil Present	? Yes X No
Remarks:								
HYDROLC	JGY							
Wetland Hy	drology Indicate	ors:						
Primary Indi	cators (minimum	of one is requir	ed; check all that	apply)			Secondar	y Indicators (minimum of two required)
X Surface	Water (A1)		Water-Sta	ained Lea	aves (B9)		Surfa	ice Soil Cracks (B6)
X High Wa	ater Table (A2)		Aquatic F	auna (B1	3)		Drain	age Patterns (B10)
X Saturatio	on (A3)		True Aqu	atic Plant	s (B14)		Dry-S	Season Water Table (C2)
Water M	larks (B1)		Hydrogen	Sulfide (Jdor (C1)	Cray	tish Burrows (C8)
Sedimer				Rnizosph	ieres on l		oots (C3) Satur	ation Visible on Aerial Imagery (C9)
	DOSIIS (B3)		Presence	of Reduc	tion in Ti	Uad Sail		ed of Stressed Plants (D1)
	at of Clust (D4)		Thin Mucl			lieu Soli		Noutral Test (D5)
	on Visible on Aei	rial Imageny (B7			(C7)		<u> </u>	Neutral Test (DS)
Sparsely	Vegetated Con	cave Surface (B	8) Other (Ex	plain in F	Remarks)			
	vetione			plainini	(omanto)			
Surface Wat	tor Present?	Vec X	No	Denth (i	nches).	1		
Water Table	Present?	Yes X	No	Depth (i	nches):	0		
Saturation P	Present?	Yes X	No	Depth (i	nches).	0	Wetland Hydrolog	av Present? Yes X No
(includes ca	pillary fringe)	<u> </u>		12 41 - (1		-		<u> </u>
Describe Re	corded Data (str	eam gauge, mo	nitoring well, aeria	al photos	, previou	s inspec	tions), if available:	
				· ·				
Remarks:								

Project/Site: I-69/SR	14 Interchange (Des. No.: 1800091)	City/Co	unty: Fort Wayne,	Allen Cou	unty	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Department of Transportation			State:	IN	Sampling Point:	SP-8
Investigator(s): M. Ke	estner & M. Aldridge	Section,	Township, Range:	S6 T30M	N R12E		
Landform (hillside, te	errace, etc.): Median		Local relief (conca	ve, conve	x, none): <u>(</u>	Concave	
Slope (%): 2-6	Lat: 41.074755	Long:	-85.225516		[Datum: NAD 83	
Soil Map Unit Name:	Glynwood silt loam, 2 to 6 percent slopes, erode	d (MrB2)		N	WI classifi	cation: N/A	
Are climatic / hydrolc	ogic conditions on the site typical for this time of ye	ear?	Yes <u>X</u> Nc)	(If no, expl	lain in Remarks.)	
Are Vegetation X	_, Soil X_, or Hydrology X_significantly dist	urbed?	Are "Normal Circur	nstances"	present?	Yes <u>X</u> No	I
Are Vegetation	_, Soil, or Hydrologynaturally problem	matic?	(If needed, explain	any answ	ers in Ren	narks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampli	ng point locati	ons, tra	insects,	important feat	tures, etc.
Hydrophytic Vegeta	ation Present? Yes No X	Is th	e Sampled Area				

Hydrophytic Vegetation Present?	Yes	No <u>X</u>	Is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No X			
Remarks: Upland to Wetland 4					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4		<u></u>		Across All Strata: 3 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 33.3% (A/B)
Sapling/Shrub Stratum (Plot size: 15)			
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.		·		OBL species 0 x 1 = 0
4.				FACW species $0 x^2 = 0$
5.				FAC species 20 x 3 = 60
		=Total Cover		FACU species 70 x 4 = 280
Herb Stratum (Plot size: 15)				UPL species $0 \times 5 = 0$
1 Schedonorus arundinaceus	20	Yes	FACU	Column Totals: 90 (A) 340 (B)
2 I olium perenne	20	Yes	FACU	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
3 Plantago major	20	Yes	FAC	
A Lotus corniculatus	15	<u> </u>	FACU	Hydrophytic Vegetation Indicators:
 Editas connectiaitas Encrevencim officiando 	15	No		1 Papid Toot for Hydrophytic Vegetation
	15		FACU	2 Deminance Test is >50%
8		·		
<i>1.</i>		·		3 - Prevalence index is ≤3.0
8		·		4 - Morphological Adaptations (Provide supporting
9		·		
10				Problematic Hydrophytic Vegetation (Explain)
	90	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5)			be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separate	rate sheet.)			

SOII

Profile Description: (Describe to the dep	oth needed to document the indicator or	confirm the absence of indicators.)	
Depth Matrix	Redox Features		
inches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture Remarks	
0-7 10YR 4/3 100		Loamy/Clayey	
Tuno: C=Concentration D=Depletion BM	-Reduced Matrix, MS-Macked Sand Crain	² Location: DL-Dara Lining M-Matrix	
ype. C-Concentration, D-Depletion, Riv	-Reduced Matrix, MS-Masked Sand Gran	Indicators for Problematic Hydric Sol	ile ³ .
	Sandy Clayed Matrix (S4)		115.
Histosol (A1)	Sandy Bedex (SE)		
Ristic Epipedon (A2)	Salidy Redox (S5)	Iron-manganese masses (F12)	
		Red Parent Material (F21)	
Hydrogen Sunde (A4)	Dark Surface (S7)	Other (Eveloin in Remarke)	
Stratilied Layers (A5)	Loarny Mucky Milleral (FT)		
2 CITI Muck (ATU)	Loany Gleyed Matrix (F2)		
Depieted Below Dark Surface (ATT)	Depleted Matrix (F3)	³ Indicators of hydrophytic vocatation on	d
Sandy Musky Minoral (S1)	Redux Dark Surface (F0)	wetland bydrology must be procent	lu
Sandy Mucky Milleral (S1)	Depieted Dark Surface (F7)	weitand hydrology must be present	,
(estrictive Layer (if observed):			
Type: Hardpan			
Restrictive Layer (if observed): Type: Hardpan Depth (inches): 7 Remarks:		Hydric Soil Present? Yes	No <u>×</u>
Type: <u>Hardpan</u> Depth (inches): <u>7</u>		Hydric Soil Present? Yes	No <u></u>
YDROLOGY		Hydric Soil Present? Yes	No
Type: Hardpan Depth (inches): 7 Remarks: YDROLOGY Vetland Hydrology Indicators:		Hydric Soil Present? Yes	No <u></u>
trype:	ired; check all that apply)	Hydric Soil Present? Yes	No
estrictive Layer (if observed): Type:	ired; check all that apply) Water-Stained Leaves (B9)	Hydric Soil Present? Yes	No
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requ _Surface Water (A1) _High Water Table (A2)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Hydric Soil Present? Yes Secondary Indicators (minimum of two fills) Surface Soil Cracks (B6) Drainage Patterns (B10)	No
estrictive Layer (if observed): Type: <u>Hardpan</u> Depth (inches): <u>7</u> emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requession Surface Water (A1) High Water Table (A2) Saturation (A3)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	Hydric Soil Present? Yes	No
	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Hydric Soil Present? Yes	No
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requestion of the strenge of	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Hydric Soil Present? Yes	No requir
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requested): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	Hydric Soil Present? Yes	No requir
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 remarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requessories) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	Hydric Soil Present? Yes	No require y (C9)
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requession 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)	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7)	Hydric Soil Present? Yes	No require y (C9)
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 emarks: YDROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one is requestion) 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 (B	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9)	Hydric Soil Present? Yes	No require y (C9)
estrictive Layer (if observed): Type: Hardpan Depth (inches): 7 emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is requess 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 (B Sparsely Vegetated Concave Surface (ired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Gauge or Well Data (D9) B8) Other (Explain in Remarks)	Hydric Soil Present? Yes	No require y (C9)
Image: Sectric tive Layer (if observed): Type: Hardpan Depth (inches): 7 Image: Deposits (B2) <t< td=""><td>ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks)</td><td>Hydric Soil Present? Yes </td><td>No</td></t<>	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks)	Hydric Soil Present? Yes	No
Type: Hardpan Depth (inches): 7 Remarks: 7 Works of the second	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No X Depth (inches):	Hydric Soil Present? Yes	No require
Additional and the second s	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Hydric Soil Present? Yes	No require y (C9)
Type: Hardpan Depth (inches): 7 Remarks: 7 WDROLOGY Remarks: YDROLOGY Remarks: YDROLOGY Remarks: YUROLOGY Remarks: Yuron Saturation Hydrology Indicators: Remarks: Sediment Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Crust (B4) Surface Water Present? Yes Saturation Present? Yes Saturation Present? Yes Saturation Present?	ired: check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Hydric Soil Present? Yes	No require y (C9)
Type: Hardpan Depth (inches): 7 Remarks: 7 YDROLOGY Remarks: YUROLOGY YUROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requession of the second s	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Hydric Soil Present? Yes	No require y (C9)
Type: Hardpan Depth (inches): 7 Remarks: 7 PUROLOGY Vetland Hydrology Indicators: 'rimary Indicators (minimum of one is requesive 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 (B Sparsely Vegetated Concave Surface (ield Observations: urface Water Present? Yes	ired; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) 7) Gauge or Well Data (D9) B8) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches): No X Depth (inches): No X Depth (inches):	Hydric Soil Present? Yes	No require y (C9)

Project/Site: I-69/SR 14 Interchange (Des. No.: 1800091)				City/Co	unty:	Fort Wayne,	Allen Co	unty	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Depart	tment of Trans	portation				State:	IN	Sampling Point:	SP-9
Investigator(s): M. Ke	estner & M. Aldr	ridge		Section,	Towns	ship, Range:	S1 T30	N R11E		
Landform (hillside, te	errace, etc.): Me	edian			Local	relief (conca	ve, conve	ex, none):	Concave	
Slope (%): 2-6	Lat: 41.07643	39		Long:	-85.22	27518			Datum: NAD 83	
Soil Map Unit Name:	Glynwood silt I	loam, 2 to 6 pe	ercent slopes, erode	d (MrB2)			<u> </u>	IWI classi	fication: N/A	
Are climatic / hydrolo	ogic conditions of	on the site typi	cal for this time of ye	ear?	Yes	X No)	(If no, ex	olain in Remarks.)	
Are Vegetation X	, Soil <u>X</u> , o	r Hydrology	X significantly dist	urbed?	Are "N	Iormal Circur	nstances	" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, o	r Hydrology	naturally problem	matic?	(If nee	eded, explain	any ansv	vers in Re	marks.)	
SUMMARY OF	SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegeta Hydric Soil Present	ition Present? ?	Yes X Yes X	No No	ls th with	e Sam in a W	pled Area /etland?	١	′es <u>X</u>	No	

Hydric Soil Present?	Yes X No	within a Wetland?	Yes X No
Remarks:			
Wetland 5			

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 2 (A)
3				Total Number of Dominant Species
4				Across All Strata: 2 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)			
1.	-			Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 65 x 1 = 65
4.				FACW species 20 x 2 = 40
5.				FAC species 80 x 3 = 240
		=Total Cover		FACU species $0 \times 4 = 0$
Herb Stratum (Plot size: 15)				UPL species $0 \times 5 = 0$
1. Juncus tenuis	80	Yes	FAC	Column Totals: 165 (A) 345 (B)
2 Typha angustifolia	40	Yes	OBI	Prevalence Index = $B/A = 2.09$
3 Cyperus striaosus	20	<u>No</u>	FACW	
4 Echinochloa muricata	 	No	OBI	Hydrophytic Vegetation Indicators:
5 Schoenoplectus tabernaemontani	10	No		1 - Panid Test for Hydronbytic Vegetation
				X 2 Dominance Test is >50%
7				\times 2 - Dominance results > 50%
7				Λ 3 - Flevalence index is ≤ 3.0
8				data in Remarks or on a separate sheet)
9				Decklamatic I hades hat is Manufaction 1 (Fundain)
10				
	<u> </u>	= I otal Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5)			be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes X No
Remarks: (Include photo numbers here or on a separate	arate sheet.)			

SOIL

epth	Matrix		Rec	Jox Feature	es						
iches) C	olor (moist)	%	Color (moist)	%	Type ¹	Loc ²	Textu	ure		Remarks	
0-12	10Y 5/1	100					Loamy/C	Clayey			
		·									
		·									
		·									
pe: C=Concent	tration, D=Dep	letion, RM	=Reduced Matrix,	, MS=Mask	ed Sanc	Grains		² Location:	PL=Pore Li	ning, M=Matr	rix.
dric Soil Indica	ators:							Indicators	for Proble	matic Hydric	: Soils ³ :
Histosol (A1)			Sandy G	leyed Matri	ix (S4)			Coast	Prairie Redo	ox (A16)	
Histic Epipedo	n (A2)		Sandy R	edox (S5).				Iron-N	langanese M	lasses (F12)	
Black Histic (A	(3)		Stripped	Matrix (S6))			Red F	arent Materi	al (F21)	
Hydrogen Sulfi	ide (A4)		Dark Sur	face (S7)				Very S	Shallow Dark	Surface (F2	2)
Stratified Laye	rs (A5)		Loamy M	/lucky Mine	ral (F1)			Other	(Explain in F	Remarks)	
2 cm Muck (A1	10)		X Loamy G	Bleyed Matr	ʻix (F2)						
Depleted Below	w Dark Surface) (A11)	Depleted	1 Matrix (F3	3)						
Thick Dark Sur	rface (A12)		Redox D	ark Surface	e (F6)			³ Indicators	of hydrophy	tic vegetation	n and
Sandy Mucky I	Mineral (S1)		Depleted	J Dark Surfa	ace (F7)			wetlar	nd hydrology	must be pres	sent,
5 cm Mucky Pe	eat or Peat (S3	3)	Redox D	epressions	s (F8)			unles	s disturbed o	or problematic).
_ • • • • • • • • • • • • •											
strictive Layer	(if observed):										
estrictive Layer	(if observed): Hardpa	า									
estrictive Layer Type: Depth (inches) emarks:	(if observed): Hardpa	n 12	_				Hydric So	il Present	?	Yes_X	No_
estrictive Layer Type: Depth (inches) emarks:	(if observed): Hardpa	n 12					Hydric So	il Present	?	Yes <u>X</u>	<u>No</u>
25trictive Layer Type: Depth (inches) emarks: 2DROLOGY	(if observed): Hardpa):	n 12					Hydric So	il Present	?	Yes <u>X</u>	<u>No</u>
	(if observed): Hardpa	n 12					Hydric So	il Present	?	Yes <u>X</u>	No_
strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators	(if observed): Hardpa): <u>gy Indicators:</u> (minimum of c	n 12 ne is requ	ired; check all that	ıt apply)			Hydric So	Il Present	y Indicators (Yes X	No
strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water	(if observed): Hardpa): (minimum of c (A1)	n 12 ne is requ	ired; check all tha	It apply)	ves (B9)		Hydric So	il Present [*] Secondar	<u>/ Indicators (</u> ce Soil Crack	Yes X	No
strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta	(if observed): Hardpa): (minimum of c (A1) able (A2)	n 12 ne is requ	ired; check all tha Water-St Quatic F	<u>it apply)</u> tained Leav Fauna (B13	ves (B9) 3)		Hydric Sol	Secondar Surfa	<u>/ Indicators (</u> ce Soil Crack age Patterns	Yes X (minimum of f (s (B6) (B10)	No
strictive Layer Type: Depth (inches) marks: DROLOGY tland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3	(if observed): Hardpa): gy Indicators: (minimum of c (A1) ible (A2))	n 12 ne is requ	ired; check all tha Water-St Aquatic f	<u>it apply)</u> tained Leav Fauna (B13 Jatic Plants	ves (B9) 3) 3 (B14)		Hydric Sol	Secondar Surfad Draina Dry-S	<u>v Indicators (</u> ce Soil Crack age Patterns eason Water	Yes X (minimum of f (ss (B6) (B10) r Table (C2)	No
strictive Layer Type: Depth (inches) marks: DROLOGY tland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I	(if observed): Hardpa): gy Indicators: (minimum of c (A1) uble (A2)) B1)	n 12 .ne is requ	ired: check all tha Water-St Aquatic F True Aqu Hydroge	tapply) tained Leav Fauna (B13 Jatic Plants n Sulfide O	ves (B9) 3) 5 (B14) 5dor (C1)		Hydric So	Secondar Surfac Draina Dry-S Crayfi	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (Yes X (minimum of f (s (B6) (B10) r Table (C2) (C8)	No_
strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depu	(if observed): Hardpad): gy Indicators: (minimum of c (A1) uble (A2)) B1) osits (B2) (D2)	n 12 ne is requ	ired; check all tha Water-Si Aquatic I True Aqu Hydroge Oxidized	tt apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O Rhizosphe	ves (B9) 3) 5 (B14) dor (C1) eres on L) Living Ro	Hydric So	Secondar Surfa Draina Dry-S Crayfi X Satura	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible	Yes X (minimum of f (s (B6) (B10) r Table (C2) (C8) on Aerial Ima	No
strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits ((if observed): Hardpan): (minimum of control (Marcol) (M	n 12 ne is requ	ired; check all tha Water-St Aquatic F True Aqu Hydroge Oxidized Presence	tt apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O Rhizosphe e of Reduca	ves (B9) 3) 5 (B14) bdor (C1) eres on L ed Iron (ico in Ti) Living Ro C4)	Hydric Sol	Secondar Surfa Drain: Dry-S Crayfi X Satura Stunta	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse	Yes X (minimum of f (s (B6) (B10) r Table (C2) (C8) on Aerial Ima ed Plants (D1	No
strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Co	(if observed): Hardpa Hardpa): (minimum of c (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	n 12 .ne is requ	ired: check all tha Water-St Aquatic I True Aqu Hydroge Oxidized Presence Recent In	It apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O Rhizosphe e of Reduce	ves (B9) 3) 5 (B14) dor (C1) eres on L ed Iron (ion in Tii) Living Ro C4) Iled Soil:	Hydric Sol	Secondar Surfa Draina Dry-S Crayfi X Satura Stunta X Geom	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi	Yes X (minimum of f (ss (B6) (B10) (r Table (C2) (C8) on Aerial Ima ed Plants (D1 ion (D2)	No
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strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Cu Iron Deposits (Inundation Visi Sparsely Vege	(if observed): Hardpan Hardpan (minimum of control (Marcol)) (Marcol) (Marc	n 12 me is requ nagery (B' Surface (I	ired; check all tha Water-St Aquatic F True Aqu Hydroge Oxidized Presence Recent Iu Thin Muc 7) Gauge o B8) Other (E	tt apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O Reducti ron Reducti con Reducti k Surface r Well Data xplain in Re	ves (B9) 3) 5 (B14) dor (C1) eres on L ed Iron (ion in Ti (C7) a (D9) emarks)) Living Ro C4) Iled Soil:	Hydric Sol	Secondar Surfa Draina Dry-S Crayfi X Satura Stunta X Geom X FAC-I	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi Neutral Test	Yes X (minimum of f (ss (B6) (B10) r Table (C2) (C8) on Aerial Ima ed Plants (D1 ion (D2) (D5)	No
strictive Layer Type: Depth (inches) marks: DROLOGY stland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Cl Iron Deposits (Inundation Visi Sparsely Vege	(if observed): Hardpa Hardpa): (minimum of c (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	n 12 one is requ nagery (B Surface (I	ired: check all tha Water-St Aquatic f True Aqu Hydroger Oxidized Presence Recent In Thin Muc 7) Gauge o B8) Other (Et	at apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O I Rhizosphe e of Reducti ck Surface I r Well Data xplain in Re	ves (B9) 3) 5 (B14) odor (C1) eres on L ed Iron (ion in Til (C7) a (D9) emarks)) Living Ra C4) Iled Soil:	Hydric Sol	Secondar Surfac Draina Dry-S Crayfi X Satura Stunte X Geom X FAC-I	<u>v Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi Neutral Test	Yes X (minimum of f (ss (B6) (B10) r Table (C2) (C8) on Aerial Ima ed Plants (D1 ion (D2) (D5)	No
Strictive Layer Type: Depth (inches) Depth (inches) marks:	(if observed): Hardpad): gy Indicators: (minimum of co (A1) uble (A2)) B1) osits (B2) (B3) rust (B4) (B5) ible on Aerial In etated Concave ns: esent? Ye	n 12 ne is requ nagery (B Surface (I s_X s_X	ired; check all tha Water-St Aquatic f True Aqu Hydroge Oxidized Presence Recent fu Thin Muc 7) Gauge o B8) Other (E	at apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O I Rhizosphe e of Reduca ron Reducti ck Surface (r Well Data xplain in Re Depth (in Depth (in	ves (B9) 3) 5 (B14) odor (C1) eres on L ed Iron (ion in Til (C7) a (D9) emarks) aches): aches):) _iving Ro C4) Iled Soil:	Hydric Sol	Secondar Surfa Draina Dry-S Crayfi X Satura Stunta X Georr X FAC-I	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi Neutral Test	Yes X (minimum of f (s (B6) (B10) (C8) on Aerial Ima ed Plants (D1 ion (D2) (D5)	No
strictive Layer Type: Depth (inches) marks:	(if observed): Hardpan Hardpan (minimum of controls): (Marcelline): (Mar	n 12 me is requ magery (B Surface (I s X s X s X	ired; check all tha Water-Si Aquatic F True Aqu Hydroge Oxidized Presence Recent Ii Thin Muc 7) Gauge o B8) Other (Ei No No	at apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O Rhizosphe e of Reduce ron Reducti ck Surface (r Well Data xplain in Re Depth (in Depth (in	ves (B9) 3) 5 (B14) bdor (C1) eres on L ed Iron (ion in Til (C7) a (D9) emarks) aches): aches):) Living Ro C4) Iled Soil:	Hydric Sol	Secondar Surfa Draina Dry-S Crayfi X Satura Stunte X Georr X FAC-I	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi Neutral Test	Yes X (minimum of f (s (B6) (B10) (C8) on Aerial Ima ed Plants (D1 ion (D2) (D5) Yes X	No
Britictive Layer Type: Depth (inches) marks: Depth (inches) Mater Marks (inches) Saturation (A3 Water Marks (inches) Drift Deposits (inches) Drift Depo	(if observed): Hardpai Hardpai (if observed): Hardpai (if observed): Hardpai (if observed): (if	n 12 me is requ magery (B' Surface (l s X s X s X s X	ired: check all tha Water-Si Aquatic H True Aqu Hydrogei Oxidized Presence Recent Iu Thin Muc 7) Gauge o B8) Other (E No No No No	at apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O l Rhizosphe e of Reducti ch Surface (r Well Data xplain in Re Depth (in Depth (in Depth (in	ves (B9) 3) 5 (B14) dor (C1) eres on L ed Iron (ion in Tii (C7) a (D9) emarks) aches): aches):) iving Ro C4) Iled Soil: 	Hydric Sol	Secondar Surfa Drain: Dry-S Crayfi X Satura X Geom X FAC-1	<u>/ Indicators (</u> ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi Neutral Test y Present?	Yes X (minimum of f (ss (B6) (B10) (r Table (C2) (C8) on Aerial Ima ed Plants (D1 ion (D2) (D5) Yes X	No
Strictive Layer Type: Depth (inches) marks: DROLOGY etland Hydrolog mary Indicators Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Ci Iron Deposits (Inundation Visi Sparsely Vege etla Observation rface Water Pre- ater Table Present cludes capillary socibe Recorder	(if observed): Hardpai Hardpai (minimum of control (Marcol)) (Marcol) (Marc	n 12 me is requ magery (B Surface (I s X s X s X s X	ired; check all tha Water-Si Aquatic I True Aqu Hydrogei Oxidized Presence Recent Ii Thin Muc 7) Gauge o B8) Other (Ei No No No No	at apply) tained Leav Fauna (B13 Jatic Plants n Sulfide O I Rhizosphe e of Reducti ch Surface (r Well Data xplain in Re Depth (in Depth (in Depth (in Depth (in	ves (B9) 3) 5 (B14) dor (C1) eres on L ed Iron (ion in Til (C7) a (D9) emarks) iches): iches): previous) Living Ro C4) Illed Soil:	Hydric Sol	Secondar Surfa Draina Dry-S Crayfi X Satura X Geom X FAC-I	y Indicators (ce Soil Crack age Patterns eason Water sh Burrows (ation Visible ed or Stresse orphic Positi Neutral Test y Present?	Yes X (minimum of f (s (B6)) (B10) (r Table (C2)) (C8) on Aerial Ima ed Plants (D1 ion (D2) (D5) Yes X	No

Project/Site: I-69/SR	14 Interchange (Des. No.: 1800091)	City/County: Fort Wayne,	Allen County	Sampling Date:	9/25/19			
Applicant/Owner:	Indiana Department of Transportation		State: IN	Sampling Point:	SP-10			
Investigator(s): M. Ke	estner & M. Aldridge	Section, Township, Range:	S1 T30N R11E					
Landform (hillside, te	errace, etc.): Median	Local relief (conca	ve, convex, none	e): Concave				
Slope (%): 2-6	Lat: 41.076533	Long: <u>-85.227416</u>		Datum: NAD 83				
Soil Map Unit Name:	Glynwood silt loam, 2 to 6 percent slopes, eroded	d (MrB2)	NWI clas	sification: N/A				
Are climatic / hydrolc	gic conditions on the site typical for this time of ye	ear? Yes <u>X</u> No	(If no, e	explain in Remarks.)				
Are Vegetation X	, Soil X , or Hydrology X significantly dist	urbed? Are "Normal Circum	nstances" presei	nt? Yes <u>X</u> No)			
Are Vegetation	, Soil, or Hydrologynaturally probler	natic? (If needed, explain	any answers in I	Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegeta	tion Present? Yes No X	Is the Sampled Area						

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks: Upland to Wetland 5					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species
4				Across All Strata: 3 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)				
1.				Prevalence Index worksheet:
2.		·		Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 0 x 2 = 0
5.				FAC species $0 \times 3 = 0$
		=Total Cover		FACU species $125 \times 4 = 500$
Herb Stratum (Plot size: 15)				$UPL species \qquad 0 \qquad x = 0$
1 Schedoporus arundinaceus	50	Yes	FACU	$\frac{125}{\text{Column Totals}} = \frac{125}{125} \text{ (A)} = \frac{500}{500} \text{ (B)}$
	50	Yes	FACU	$\frac{120}{120}(1) = \frac{120}{120}(1)$
2. Asclenias verticillata	25	Vos	EACU	
	25	165	TACO	Hydrophytic Vegetation Indicatory
4		·		1 Denid Test for Undershutis Verstation
5		·		
6		·		
<i>1.</i>		·		3 - Prevalence Index is ≤3.0°
8.		·		4 - Morphological Adaptations' (Provide supporting
9		·		
10		·		Problematic Hydrophytic Vegetation (Explain)
	125	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
<u>Woody Vine Stratum</u> (Plot size: 5)				be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point:	SP-10

Depth M	atrix	Redo	ox Featur	res				,	
inches) Color (mo	oist) %	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16 10YR 4	/3 100					Loamy/Cla	yey		
			·						
				·					
			·						
			·	·					
Type: C=Concentration, I	D=Depletion, RM=I	Reduced Matrix,	MS=Mas	ked Sand	d Grains	² L0	ocation: PL=Po	ore Lining, M=Ma	rix.
lydric Soil Indicators:						In	dicators for Pr	roblematic Hydri	c Soils ³ :
Histosol (A1)		Sandy Gle	eyed Mat	trix (S4)			Coast Prairie	Redox (A16)	
Histic Epipedon (A2)		Sandy Re	dox (S5)	1			Iron-Mangan	ese Masses (F12)
Black Histic (A3)		Stripped M	Matrix (Se	6)			_Red Parent N	Material (F21)	
Hydrogen Sulfide (A4)		Dark Surf	ace (S7)				Very Shallow	/ Dark Surface (F2	22)
Stratified Layers (A5)		Loamy Mu	ucky Min	eral (F1)			Other (Explai	in in Remarks)	
2 cm Muck (A10)		Loamy Gl	eyed Ma	trix (F2)					
Depleted Below Dark S	Surface (A11)	Depleted	Matrix (F	3)					
Thick Dark Surface (A	12)	Redox Da	rk Surfac	ce (F6)		³ In	dicators of hyd	Irophytic vegetation	on and
Sandy Mucky Mineral	(S1)	Depleted	Dark Sur	face (F7))		wetland hydro	ology must be pre	esent,
5 cm Mucky Peat or P	eat (S3)	Redox De	pression	is (F8)			unless distur	bed or problemati	С.
Restrictive Layer (if obse	erved):								
Туре: Н	lardpan								
Type: <u>H</u> Depth (inches): Remarks:	Hardpan 16	_				Hydric Soil F	Present?	Yes	<u>No</u>
Type: <u>H</u> Depth (inches): <u></u> Remarks: YDROLOGY	lardpan 16					Hydric Soil P	Present?	Yes	<u>No</u>
Type: <u>H</u> Depth (inches): <u></u> Remarks: YDROLOGY Vetland Hydrology Indic	Hardpan 16 ators:					Hydric Soil F	Present?	Yes	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indic Primary Indicators (minimu	Hardpan 16 ators: um of one is require	ed; check all that	apply)			Hydric Soil F	Present?	Yes	No
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu Surface Water (A1)	ators: um of one is require	ed; check all that	apply) ained Lea	aves (B9)		Hydric Soil P	econdary Indica Surface Soil	Yes ators (minimum of Cracks (B6)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2)	ators: um of one is require	ed; check all that Water-Sta Aquatic Fi	apply) ained Lea auna (B1	aves (B9) 13)		Hydric Soil P	econdary Indica Surface Soil Drainage Pat	Yes ttors (minimum of Cracks (B6) tterns (B10)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)	ators: um of one is require	ed: check all that Water-Sta Aquatic Fi True Aqua	apply) ained Lea auna (B1 atic Plant	aves (B9) 13) ts (B14)		Hydric Soil F	econdary Indica Surface Soil Drainage Pat Dry-Season	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2)	No
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	lardpan 16 ators: um of one is require	ed; check all that Water-Sta Aquatic F: True Aqua Hydrogen	<u>apply)</u> ined Lea auna (B1 atic Plant Sulfide (aves (B9) 13) ts (B14) Odor (C1))	Hydric Soil F	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8)	No
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ators: um of one is require	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph	aves (B9) I3) Is (B14) Odor (C1) neres on L) iving Ro	Hydric Soil P	econdary Indica surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ators: Jm of one is require 2)	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	aves (B9) I3) Is (B14) Odor (C1) heres on L ced Iron () iving Ro (C4)	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Desition (D0)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ators: um of one is require 2)	ed; check all that Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Iro	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc	aves (B9) 13) ts (B14) Odor (C1) neres on L ced Iron (ction in Ti) Living Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im tressed Plants (D Position (D2) Tact (C5)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY YUROLOGY Yetland Hydrology Indic Primary Indicators (minimu 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)	ators: um of one is require 2)	ed: check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface	aves (B9) 13) 13 (B14) Odor (C1) heres on L ced Iron (ction in Ti e (C7)) Living Ro (C4) Iled Soil:	Hydric Soil F	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes tors (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im tressed Plants (D Position (D2) Test (D5)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary 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 A Sparsely Vegetated Co	ators: um of one is require 2) Aerial Imagery (B7)	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl Gauge or	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc s Surface Well Dat	aves (B9) I3) Is (B14) Odor (C1) Dodor (C1) Dododr (C1)) Living Ro (C4) Iled Soil:	Hydric Soil F	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Position (D2) Test (D5)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu 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 A Sparsely Vegetated Co	ators: ators: um of one is require 2) Aerial Imagery (B7) poncave Surface (B	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or 8) Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc sufface Well Dat plain in F	aves (B9) I3) Is (B14) Odor (C1) neres on L ced Iron (ction in Ti e (C7) ta (D9) Remarks)) _iving Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Position (D2) Test (D5)	<u>No</u>
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu 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 A Sparsely Vegetated Co Field Observations: Surface Water Deposits	ators: ators: um of one is require 2) 2) Aerial Imagery (B7) poncave Surface (B)	ed; check all that Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl Gauge or 8) Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc con Reduc con Reduc con Reduc con Reduc con Reduc con Reduc	aves (B9) 13) ts (B14) Odor (C1) neres on L ced Iron (ction in Ti e (C7) ta (D9) Remarks)) Living Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im tressed Plants (D Position (D2) Test (D5)	_ No _>
Type: Depth (inches): Remarks: YDROLOGY YUROLOGY Yutland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Vater Table Present?	ators: ators:	ed: check all that Water-Sta Aquatic F: True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or 8) Other (Ex	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat plain in F	aves (B9) 13) Is (B14) Odor (C1) heres on L ced Iron (ction in Ti ced Iron (tion (tion (tion in Ti ced Iron (tion (tion (tion in Ti ced Iron (tion () Living Ro (C4) Iled Soil:	Hydric Soil F	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes tors (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im tressed Plants (D Position (D2) Test (D5)	No two require agery (C9) 1)
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu 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 A Sparsely Vegetated Co Surface Water Present? Vater Table Present? Saturation Present?	ators: ators: ators: um of one is require 2) Aerial Imagery (B7) oncave Surface (B4) Yes Yes Yes	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or 8) Other (Ex No X No X No X	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc c Surface Well Dat plain in F Depth (i Depth (i	aves (B9) 13) 13) 13) 13) 13) 14 15 17 17 17 17 17 17 17 17 17 17) Living Ra (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or Si Geomorphic FAC-Neutral	Yes tors (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Position (D2) Test (D5) ent? Yes	No two require agery (C9) 1)
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu 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 A Sparsely Vegetated Co Sield Observations: Surface Water Present? Vater Table Present? Saturation Present?	ators: ators: um of one is require 2) Aerial Imagery (B7) oncave Surface (B7) oncave Surface (B7) Yes Yes Yes Yes	ed; check all that Water-Sta Aquatic F: True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck) Gauge or 8) Other (Ex No X No X No X	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc con Reduc c	aves (B9) 13) 13) 13) 13) 13) 13) 13) 14 15 15 15 15 15 15 15 15 15 15) _iving Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Position (D2) Test (D5) ent? Yes	<u>No)</u>
Type: Depth (inches): Remarks: YDROLOGY YUROLOGY Vetland Hydrology Indic Primary 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 A Sparsely Vegetated Co Sield Observations: Surface Water Present? Vater Table Present? Saturation Present?	ators: ators:	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or 8) Other (Ex No X No X No X No X No X No X	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc Surface Well Dat plain in F Depth (i Depth (i Depth (i	aves (B9) 13) 13) Odor (C1) neres on L ced Iron (ction in Ti ced Iron (ction in Ti ction in Ti ction in Ti ction (C1) neres on L ced Iron (ction in Ti ction (C1) neres on L ced Iron (ction in Ti ction (C1) neres on L ction (C1) neres (C1) ta (D9) nches): inches): o, previous) Living Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Position (D2) Test (D5) ent? Yes	No two require agery (C9) 1) No
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu 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 (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Field Observations: Surface Water Present? Vater Table Present? Saturation Present? Saturation Present? includes capillary fringe) Describe Recorded Data (s	ators: ators:	ed: check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl Gauge or 8) Other (Ex No X No X No X No X	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc (Surface Well Dat plain in F Depth (i Depth (i Depth (i al photos	aves (B9) 13) 13) 13 Odor (C1) neres on L ced Iron (ction in Ti e (C7) ta (D9) Remarks): inches): inches): inches):) Living Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Im tressed Plants (D Position (D2) Test (D5) ent? Yes	No two required agery (C9) 1) No
Type: Depth (inches): Remarks: YDROLOGY Yetland Hydrology Indic Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Sparsely Vegetated Co Sield Observations: Surface Water Present? Vater Table Present? Saturation Present?	ators: ators:	ed; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck Gauge or 8) Other (Ex No X No X No X No X No X No X	apply) ained Lea auna (B1 atic Plant Sulfide (Rhizosph of Reduc on Reduc (Surface Well Dat plain in F Depth (i Depth (i Depth (i	aves (B9) 13) 13) 13) 13) 13) 14 15 17 17 17 17 17 17 17 17 17 17) Living Ro (C4) Iled Soil:	Hydric Soil P	econdary Indica Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or Si Geomorphic FAC-Neutral	Yes ators (minimum of Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Im tressed Plants (D Position (D2) Test (D5) ent? Yes	No

Project/Site: I-69/SR	14 Interchange (Des. No.: 1800091)	City/Count	y: Fort Wayne,	Allen Cou	unty	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Department of Transportation			State:	IN	Sampling Point:	SP-11
Investigator(s): M. Ke	estner & M. Aldridge	Section, To	wnship, Range:	S12 T3	0N R12E		
Landform (hillside, te	errace, etc.): Median	Lo	ocal relief (conca	ve, conve	ex, none):		
Slope (%): 0-2	Lat: 41.07349	Long: -8	5.227889			Datum: NAD 83	
Soil Map Unit Name:	Blount loam, interlobate moraines, 0 to 2 percent	slopes (Brr	A)	N	IWI classif	ication: N/A	
Are climatic / hydrold	ogic conditions on the site typical for this time of ye	ar? Y	es <u>X</u> No)	(If no, exp	lain in Remarks.)	
Are Vegetation X	, Soil X , or Hydrology X significantly dist	urbed? Ar	e "Normal Circun	nstances	" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, or Hydrologynaturally problen	natic? (If	needed, explain	any ansv	vers in Rer	marks.)	
SUMMARY OF	FINDINGS – Attach site map showing	sampling	point location	ons, tra	ansects,	important fea	tures, etc.
Hydrophytic Vegeta	ation Present? Yes X No	Is the s	Sampled Area	v	705 X	No	

Hydric Soil Present? Wetland Hydrology Present?	Yes X Yes X	No No	within a Wetland?	Yes X	No
Remarks: Wetland 6					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata: 1 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)				
1				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 10 x 1 = 10
4.				FACW species 0 x 2 = 0
5.				FAC species 110 x 3 = 330
		=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 15)				UPL species 0 x 5 = 0
1. Juncus tenuis	110	Yes	FAC	Column Totals 120 (A) 340 (B)
2. Typha angustifolia	10	No	OBL	Prevalence Index = $B/A = 2.83$
3.				
4.				Hydrophytic Vegetation Indicators:
5.				1 - Rapid Test for Hydrophytic Vegetation
6				X 2 - Dominance Test is >50%
7				X_3 - Prevalence Index is <3.0 ¹
8				4 - Morphological Adaptations ¹ (Provide supporting
a		·		data in Remarks or on a separate sheet)
10				Problematic Hydrophytic Vegetation ¹ (Explain)
	120	=Total Cover		Indicators of hydric coil and watered hydrology must
Woody Vine Stratum (Plot size: 5)	120			he present unless disturbed or problematic
1				
2				Hydrophytic
<u> </u>		=Total Cover		vegetation Present? Yes X No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			

Depth	Matrix		Redo	x Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 5/1	80	7.5YR 5/8	20	С	М	Loamy/Clayey	Prominent redox concentrations
Type: C=Co	ncentration, D=Depl	etion, RM=F	Reduced Matrix, N	/IS=Masl	ked Sand	Grains.	² Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:				· (0.0)		Indicato	rs for Problematic Hydric Soils":
Histosol ((A1) inadan (A2)		Sandy Gle	yed Mati	rix (54)		<u> </u>	St Prairie Redox (A16)
			Sanuy Red	JUX (SS) Antrix (SF	3)		IION	Paront Material (E21)
	Suc (A3) Sulfide (A4)		Supped to	1811X (30)			Shallow Dark Surface (F22)
Stratified	Lavers (A5)			ice (07)	eral (F1)			r (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eved Mat	rix (F2)			
Depleted	Below Dark Surface	(A11)	X Depleted M	Matrix (F:	3)			
Thick Da	rk Surface (A12)	()	Redox Dar	rk Surfac	;e (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy M	ucky Mineral (S1)		Depleted [Dark Surf	face (F7)		wetl	and hydrology must be present,
5 cm Mu	cky Peat or Peat (S3)	Redox Der	pressions	s (F8)		unle	ss disturbed or problematic.
	aver (if abaam ad).							
Restrictive L	.aver (II observed):							
Type:	ayer (il observed): Hardpar	ı						
Type: Depth (in Remarks:	Hardpar	ו 9					Hydric Soil Preser	t? Yes <u>X</u> No
Type: _ Depth (in Remarks:	Hardpar ches):	1 9	_ 				Hydric Soil Preser	rt? Yes <u>X</u> No
Type: Depth (in Remarks:	Hardpar ches):	ח 9					Hydric Soil Preser	nt? Yes <u>X</u> No
Type: _ Depth (in Remarks:	GY	1 9					Hydric Soil Preser	t? Yes <u>X</u> No
Type: _ Depth (in Remarks: TYDROLO Wetland Hyc Primary Indic	GY Irology Indicators: ators (minimum of o	ne is require	<u>id; check all that a</u>				Hydric Soil Preser	ary Indicators (minimum of two require
Type:	GY Irology Indicators: ators (minimum of o Nater (A1)	9 9 ne is require		apply) ined Lea	ves (B9)		Hydric Soil Preser	t? Yes X No
Type: _ Depth (in Remarks: TYDROLO Wetland Hyc Primary Indic Surface V High Wat	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) p (A2)	9 9 ne is require	<u>id; check all that a</u> Water-Stai Aquatic Fa	apply) ined Lea iuna (B1:	ves (B9) 3)		Hydric Soil Preser	t? Yes X No
IVDROLO Wetland Hyce Surface V High Wat X Saturatio Water Ma	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1)	ne is require	<u>;d; check all that a</u> Water-Stai Aquatic Fa True Aqua	apply) ined Lea iuna (B1: tic Plants Sulfide (ves (B9) 3) s (B14)		Hydric Soil Preser	t? Yes X No ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8)
Type: _ Depth (in Remarks: TYDROLO Wetland Hyc Primary Indic Surface V High Wat X Saturatio Water Ma Sediment	GY Irology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Denosits (B2)	ne is require	<u>ed; check all that a</u> Water-Stai Aquatic Fa True Aqua Hydrogen	apply) ined Lea auna (B1: tic Plants Sulfide C	ves (B9) 3) s (B14) Ddor (C1) errs on L	iving Pr	Hydric Soil Preser	ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) (fish Burrows (C8) Irration Visible on Aerial Imageny (C9)
Type: _ Depth (in Remarks: TYDROLO Wetland Hyc Primary Indic Surface V High Wat X Saturatio Water Ma Sediment Drift Depo	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3)	9 9 ne is require	2d; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized F	apply) ined Lea auna (B1: itic Plants Sulfide C thizospho of Reduc	ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (.iving Ro	Hydric Soil Preser	tr? Yes X No ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) uration Visible on Aerial Imagery (C9) the or Stressed Plants (D1)
Type: _ Depth (in Remarks: TYDROLO Wetland Hyc Primary Indic Surface V High Wat X Saturatio Water Ma Sediment Drift Depo X Algal Mat	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	ne is require	2d; check all that a Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence o Recent Iro	apply) ined Lea auna (B1: itic Plants Sulfide C ≀hizospho of Reduc n Reduc	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Ti) iving Ro C4) iled Soil:	Hydric Soil Preser	t? Yes X No any Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) /fish Burrows (C8) uration Visible on Aerial Imagery (C9) thed or Stressed Plants (D1) morphic Position (D2)
	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5)	ne is require	Aquatic Fa Aquatic Fa True Aquatic Fa Oxidized Fa Oxidized Fa Presence of the presence o	apply) ined Lea auna (B1: tic Plants Sulfide C thizospho of Reduc n Reduc Surface	ves (B9) 3) s (B14) Ddor (C1) eres on L sed Iron (tion in Tii (C7)) .iving Ro C4) Iled Soil:	Hydric Soil Preser	t? Yes X No any Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) irration Visible on Aerial Imagery (C9) ited or Stressed Plants (D1) morphic Position (D2) c-Neutral Test (D5)
	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir	ne is require	Hydrogen Control Co	apply) ined Lea auna (B1: titc Plants Sulfide C Nizospho of Reduc n Reduc Surface Well Data	ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (tion in Tii (C7) a (D9)) Living Ro C4) Iled Soils	Hydric Soil Preser	tr? Yes X No ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) iration Visible on Aerial Imagery (C9) ited or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Type:	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial In Vegetated Concave	ne is require	2d; check all that a Water-Stat Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro Thin Muck Gauge or N) Other (Exp	apply) ined Lea auna (B1: tic Plant: Sulfide C Ahizospho of Reduc n Reduc Surface Well Data alain in R	ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) temarks)) .iving Ro C4) Iled Soil:	Hydric Soil Preser	tr? Yes X No any Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) uration Visible on Aerial Imagery (C9) thed or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
	GY Irology Indicators: ators (minimum of o Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial In Vegetated Concave vations:	ne is require ne is require nagery (B7) Surface (B8	2d; check all that Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized Fa Presence of Recent Iro Thin Muck Gauge or N) Other (Exp	apply) ined Lea auna (B1: tic Plants Sulfide C Nizosph of Reduc n Reduc Surface Well Data ylain in R	ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (tion in Til (C7) a (D9) temarks)) .iving Ro C4) Iled Soil:	Hydric Soil Preser	t? Yes X No any Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) irration Visible on Aerial Imagery (C9) ited or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave vations: er Present? Yes	ne is require	 <u>ed: check all that</u> Water-Stat Aquatic Fa True Aquatic Fa True Aquatic Fa Oxidized F Presence of Recent Iro Thin Muck Gauge or N Other (Exp 	apply) ined Lea auna (B1: itic Plants Sulfide C Nizospho of Reduc n Reduc Surface Well Data plain in R	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) lemarks) nches):) Living Ro C4) Iled Soil:	Hydric Soil Preser	t? Yes X No any Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) uration Visible on Aerial Imagery (C9) tied or Stressed Plants (D1) morphic Position (D2) E-Neutral Test (D5)
Type:	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial In Vegetated Concave vations: er Present? Yes	ne is require	2d; check all that i Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o Recent Iro Thin Muck Gauge or N) Other (Exp No X No X	apply) ined Lea auna (B1: titc Plant: Sulfide C Nizosphr of Reduc n Reduc Surface Well Data Jain in R Depth (in Depth (in	ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) temarks) nches):) Living Ro C4) Iled Soils	Hydric Soil Preser	tr? Yes X No ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) aration Visible on Aerial Imagery (C9) ated or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5)
Type:	GY for logy Indicators: ators (minimum of or Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial In Vegetated Concave vations: er Present? Yes resent? Yes	nagery (B7) Surface (B8	2d; check all that, Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o Recent Iro Thin Muck Gauge or N 3) Other (Exp No X No X No X	apply) ined Lea auna (B1: sulfide C thizospho of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in Depth (in	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) temarks) nches): nches): nches):) .iving Rc C4) Iled Soils	Hydric Soil Preser	tt? Yes X No ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) uration Visible on Aerial Imagery (C9) thed or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) argy Present? Yes X No
Type:	GY frology Indicators: ators (minimum of or Vater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave vations: er Present? Yes esent? Yes eillary fringe)	ne is require		apply) ined Lea auna (B1: tic Plants Sulfide C thizosph of Reduc n Reduc Surface Well Dats blain in R Depth (in Depth (in	ves (B9) 3) s (B14) Ddor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) remarks) a (D9) remarks):) Living Ro C4) Iled Soil:	Hydric Soil Preser Seconda Surf Drai Drots (C3) Satu Stur Stur s (C6) X Geo X FAC Wetland Hydrold	t? Yes X No any Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) irration Visible on Aerial Imagery (C9) ited or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) any Present? Yes X No
Type:	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial In Vegetated Concave vations: er Present? Yes esent? Yes illary fringe) corded Data (stream	nagery (B7) Surface (B8 S S gauge, mon		apply) ined Lea auna (B1: itic Plants Sulfide C Nizosphi of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in Depth (in	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) temarks) nches): nches): nches):) Living Ro C4) Iled Soil:	Hydric Soil Preser Seconda Seconda Drai Drai Dry- Cray Sots (C3) Satu Stur s (C6) X Geo X FAC Wetland Hydrold Mailable:	t? Yes X No ary Indicators (minimum of two required ace Soil Cracks (B6) nage Patterns (B10) Season Water Table (C2) fish Burrows (C8) uration Visible on Aerial Imagery (C9) tied or Stressed Plants (D1) morphic Position (D2) -Neutral Test (D5) agy Present? Yes X No
Type:	GY frology Indicators: ators (minimum of o Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial Ir Vegetated Concave vations: er Present? Yes esent? Yes illary fringe) corded Data (stream	nagery (B7) Surface (B8 S	2d; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence o Recent Iro Thin Muck Gauge or N) Other (Exp No X No X No X No X No X	apply) ined Lea auna (B1: titic Plants Sulfide C Ahizospho of Reduc n Reduc Surface Well Data blain in R Depth (in Depth (in Depth (in I photos,	ves (B9) 3) s (B14) Odor (C1) eres on L ced Iron (tion in Tii (C7) a (D9) temarks) nches): nches): nches):) Living Ro C4) Iled Soils	Seconda Seconda Surf Drai Dry- Cray Doots (C3) Stur Wetland Hydrold tions), if available:	tr? Yes X No

Project/Site: I-69/SR	/SR 14 Interchange (Des. No.: 1800091)			_ City/Coι	unty: F	Fort Wayne	e, Allen Co	unty	Samplinç	J Date:	9/25/19
Applicant/Owner:	India	na Department of Transr	portation				State:	IN	Samplinç	J Point:	SP-12
Investigator(s): M. Ke	estner	& M. Aldridge		Section,	Towns	hip, Rang،	e: <u>S12 T3</u>	30N R12E			
Landform (hillside, te	errace,	, etc.): Median			Local	relief (con	cave, conv	ex, none):	Concave		
Slope (%): 0-2	Lat:	41.073493		Long:	-85.22	.7845			Datum: NA	\D 83	
Soil Map Unit Name:	: Blour	nt loam, interlobate mora	ines, 0 to 2 percent	t slopes (E	3mA)		۱۱	NWI classif	ication: N//	۹	
Are climatic / hydrolo	ogic co	onditions on the site typic	al for this time of ye	ear?	Yes	<u>x</u> 1	No	(If no, exp	lain in Rem	narks.)	
Are Vegetation X	, Soil	X_, or Hydrology_X	significantly dist	urbed?	Are "N	Iormal Circ	umstances	3" present?	Yes_≯	K Nc) <u> </u>
Are Vegetation	_, Soil	, or Hydrology	naturally probler	matic?	(If nee	ded, expla [;]	in any ans	wers in Re	marks.)		
SUMMARY OF	FIND	INGS – Attach site	map showing	samplir	ng pc	oint loca	tions, tr	ansects	, importa	int fea	tures, etc.
Hydrophytic Vegeta	ation P	resent? Yes	No X	Is th	e Sam	pled Area	ı				

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No <u>X</u> No <u>X</u> No <u>X</u>	Is the Sampled Area within a Wetland?	Yes	No <u>X</u>
Remarks: Upland to Wetland 6					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species
4		<u></u>		Across All Strata: 3 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)			
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species 0 x 2 = 0
5.				FAC species $0 \times 3 = 0$
		=Total Cover		FACU species 105 x 4 = 420
Herb Stratum (Plot size: 15)				UPL species $0 \times 5 = 0$
1 Schedonorus arundinaceus	30	Yes	FACU	Column Totals: 105 (A) 420 (B)
2 I olium perenne	30	Yes	FACU	Prevalence Index = $B/A = 4.00$
3 Festuca pratensis	30	Yes	FACU	
A Asclenias verticillata	15	<u> </u>	FACU	Hydrophytic Vagetation Indicators:
	15	110	1700	1 Papid Tast for Hydrophytic Vegetation
3		·		
8.		·		
<i>1.</i>	·	·		$5 - \text{Prevalence index is } \leq 5.0$
8		·		4 - Morphological Adaptations (Provide supporting
9		·		
10	·			Problematic Hydrophytic Vegetation (Explain)
	105	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5)			be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

Profile Descr	ription: (Describe	to the dep	oth needed to doc	ument the ind	licator or	confirm the abs	sence of indicator	s.)	
Depth	Matrix		Redo	ox Features	1 12				
(inches)	Color (moist)	%	Color (moist)	% Тур	e' Loc	Texture		Remarks	
0-18	10YR 5/2	100				Sandy			
				• =					
				·					
		· ·							
		·							
¹ Type: C=Co	ncentration, D=Dep	letion, RM	=Reduced Matrix,	MS=Masked S	and Grains	s. ² Lo	ocation: PL=Pore L	ining, M=Matrix.	
Hydric Soil Ir	ndicators:					Inc	dicators for Proble	ematic Hydric So	oils ³ :
Histosol (A1)		Sandy Gle	eyed Matrix (S4	4)		Coast Prairie Rec	dox (A16)	
Histic Epi	pedon (A2)		Sandy Re	dox (S5)			Iron-Manganese	Masses (F12)	
Black Hist	tic (A3)		Stripped M	Matrix (S6)			Red Parent Mate	rial (F21)	
Hydrogen	Sulfide (A4)		Dark Surf	ace (S7)			Very Shallow Dar	k Surface (F22)	
Stratified	Layers (A5)		Loamy M	ucky Mineral (F	1)		Other (Explain in	Remarks)	
2 cm Muc	:k (A10)		Loamy GI	eyed Matrix (F	2)		_		
Depleted	Below Dark Surface	∋ (A11)	Depleted	Matrix (F3)					
Thick Dar	k Surface (A12)		Redox Da	ark Surface (F6)	³ In	dicators of hydroph	nytic vegetation a	nd
Sandy Mu	ucky Mineral (S1)		Depleted	Dark Surface (F7)		wetland hydrolog	y must be presen	ıt,
5 cm Muc	ky Peat or Peat (S3	3)	Redox De	pressions (F8)			unless disturbed	or problematic.	
Restrictive L	ayer (if observed):								
Туре:									
Type: Depth (ind Remarks:	ches):					Hydric Soil P	resent?	Yes	<u>No X</u>
Type: Depth (ind Remarks:	ches):					Hydric Soil P	resent?	Yes	No <u>×</u>
Type: Depth (inc Remarks: IYDROLOO	ches):					Hydric Soil P	resent?	Yes	No <u>×</u>
Type: Depth (ind Remarks: 1YDROLO(Wetland Hyd	Ches):					Hydric Soil P	Present?	Yes	No <u>×</u>
Type: Depth (inc Remarks: IYDROLOO Wetland Hyd <u>Primary Indica</u>	ches): GY rology Indicators: ators (minimum of o	ne is requi	ired; check all that	apply)		Hydric Soil P	econdary Indicators	Yes	No <u>X</u>
Type: _ Depth (ind Remarks: IYDROLOO Wetland Hyd Primary Indica Surface V	Ches): GY rology Indicators: ators (minimum of o Vater (A1)	ne is requi	ired; check all that Water-Sta	apply) ained Leaves (I	39)	Hydric Soil P	econdary Indicators	Yes (minimum of two cks (B6)	No X
Type: _ Depth (ind Remarks: IYDROLOO Wetland Hyd Primary Indica Surface V High Wate	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2)	ne is requi	ired; check all that Water-Sta Aquatic Fi	apply) ained Leaves (I auna (B13)	39)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern	Yes (minimum of two cks (B6) s (B10)	No X
Type: _ Depth (ind Remarks: 1YDROLOO Wetland Hyd Primary Indica Surface V High Wata Saturation	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) 1 (A3)	ne is requi	ired; check all that Water-Sta Aquatic Fi True Aqua	apply) ained Leaves (I auna (B13) atic Plants (B1	39)	Hydric Soil P	condary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate	Yes (minimum of two cks (B6) s (B10) er Table (C2)	No X
Type: _ Depth (ind Remarks: 1YDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) 1 (A3) rks (B1) (20)	ne is requi	ired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen	apply) ained Leaves (I auna (B13) atic Plants (B1 Sulfide Odor (39) 4) C1)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8)	No X
Type: _ Depth (ind Remarks: TYDROLO(Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) 1 (A3) rks (B1) Deposits (B2)	ne is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I	apply) ained Leaves (l auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres (39) 4) C1) on Living F	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image	No <u>×</u> o require ry (C9)
Type: _ Depth (ind Remarks: TYDROLO(Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo	GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) usits (B3) 2 + (B4)	ine is requi	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence	apply) ained Leaves (I auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres o of Reduced In	39) 4) C1) on Living F on (C4)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) sits (B3) or Crust (B4)	ine is requi	ired; check all that Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized I Presence Recent Iro	apply) ained Leaves (I auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres o of Reduced In on Reduction in	39) 4) C1) on Living F on (C4) n Tilled So	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo	GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) usits (B3) or Crust (B4) usits (B5)	ne is requi	ired; check all that Water-Sta Aquatic F: True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck	apply) ained Leaves (I auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres of of Reduced Int on Reduction in < Surface (C7)	39) 4) C1) on Living F on (C4) n Tilled So	Hydric Soil P	condary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2) psits (B3) or Crust (B4) sits (B5) n Visible on Aerial In Visible on Aerial In	ne is requi	ired: check all that Water-Sta Aquatic F. True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck 7) Gauge or	apply) ained Leaves (I auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres of of Reduced In on Reduction in < Surface (C7) Well Data (D9	39) 4) C1) on Living F on (C4) n Tilled So)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No <u>x</u> o require
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Water Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) osits (B3) or Crust (B4) isits (B5) n Visible on Aerial Ir Vegetated Concave	<u>one is requi</u> magery (B ^T Surface (F	ired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Ex	apply) ained Leaves (I auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres (of Reduced In on Reduction ir < Surface (C7) Well Data (D9 plain in Remar	39) 4) C1) on Living F on (C4) n Tilled So) ks)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observ	Ches): Ches): Comparison of comparison of	ne is requi	ired; check all that Water-Sta Aquatic Fi True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl 7) Gauge or 38) Other (Ex	ained Leaves (i auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres of of Reduced Int on Reduction in k Surface (C7) Well Data (D9 plain in Remar	39) 4) C1) on Living F on (C4) n Tilled So) ks)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Tesi	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observ Surface Wate	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) usits (B3) or Crust (B4) usits (B5) n Visible on Aerial Ir Vegetated Concave ations: r Present? Ye	magery (B Surface (I	ired; check all that Water-Sta Aquatic F: True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Ex	apply) ained Leaves (l auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres of of Reduced Int on Reduction in k Surface (C7) Well Data (D9 plain in Remar	39) 4) C1) on Living F on (C4) n Tilled So) ks)	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wata Saturation Water Ma Saturation Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observ Surface Wate Water Table F	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) usits (B3) or Crust (B4) usits (B5) n Visible on Aerial In Vegetated Concave ations: r Present? Ye Present? Ye Present? Ye	magery (B)	ired; check all that Water-Sta Aquatic F: True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck 7) Gauge or 38) Other (Ex No X No X	apply) ained Leaves (l auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres o of Reduced In on Reduction in k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches	39) 4) C1) on Living F on (C4) n Tilled So) ks) ;;:;	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No X
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indic; Surface V High Wate Saturation Water Ma Saturation Water Ma Sediment Drift Depc Algal Mat Iron Depo Inundation Sparsely V Field Observ Surface Wate Water Table F Saturation Pre	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) visits (B3) or Crust (B4) isits (B5) n Visible on Aerial In Vegetated Concave ations: r Present? Ye sent? Ye liczy fringe)	magery (B: s ss	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Mucl 7) Gauge or B8) Other (Ex No X No X No X	apply) ained Leaves (l auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres of of Reduced In- on Reduction in k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches	39) 4) C1) on Living F on (C4) n Tilled So) ks) 	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No <u>×</u> prequire ry (C9) No <u>×</u>
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observ Surface Wate Water Table F Saturation Pro (includes capi	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) irks (B1) Deposits (B2) osits (B3) or Crust (B4) isits (B5) n Visible on Aerial Ir Vegetated Concave ations: r Present? Ye sent? Ye llary fringe) orded Data (stream	magery (B) Surface (B) Surface (B) S S S S S	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Ex No X No X No X No X	apply) ained Leaves (auna (B13) atic Plants (B1- Sulfide Odor (Rhizospheres of of Reduced In- on Reduction ir k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches Depth (inches	39) 4) C1) on Living F on (C4) n Tilled So) ks) 	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Patterns Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test ydrology Present?	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No <u>×</u> p required ry (C9) No <u>×</u>
Type: _ Depth (ind Remarks: TYDROLOO Wetland Hyd Primary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observ Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	Ches): GY rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) usits (B3) or Crust (B4) usits (B5) n Visible on Aerial Ir Vegetated Concave ations: rr Present? Ye esent? Ye sent? Ye llary fringe) orded Data (stream	magery (B) Surface (I s s gauge, mo	ired; check all that Water-Sta Aquatic F True Aqua Hydrogen Oxidized I Presence Recent Iro Thin Muck 7) Gauge or B8) Other (Ex No X No X No X No X	apply) ained Leaves (l auna (B13) atic Plants (B1 Sulfide Odor (Rhizospheres (of Reduced Int on Reduction in k Surface (C7) Well Data (D9 plain in Remar Depth (inches Depth (inches Depth (inches Depth (inches al photos, prev	39) 4) C1) on Living F on (C4) n Tilled So) ks) ;): ;): ;): ;): ;j: _;j:	Hydric Soil P	econdary Indicators Surface Soil Crac Drainage Pattern Dry-Season Wate Crayfish Burrows Saturation Visible Stunted or Stress Geomorphic Posi FAC-Neutral Test Ydrology Present?	Yes (minimum of two cks (B6) s (B10) er Table (C2) (C8) e on Aerial Image sed Plants (D1) ition (D2) t (D5)	No _> → require ry (C9) No _>

Project/Site: I-69/SR	Project/Site: I-69/SR 14 Interchange (Des. No.: 1800091)					e, Allen Co	ounty	Sampling Date:	9/25/19
Applicant/Owner:	Indiana Depa	rtment of Transpo	ortation			State:	IN	Sampling Point:	SP-13
Investigator(s): M. Ke	estner & M. Ald	lridge		Section,	Township, Range	e: <u>S12 T3</u>	30N R12E		
Landform (hillside, te	errace, etc.): M	edian			Local relief (con	icave, conv	ex, none):	Concave	
Slope (%): 2-6	Lat: 41.0731	05		Long:	-85.227945			Datum: NAD 83	
Soil Map Unit Name:	Glynwood silt	loam, 2 to 6 perc	cent slopes, erodeo	d (MrB2)		11	VWI classi	fication: N/A	
Are climatic / hydrolo	ogic conditions	on the site typica	al for this time of ye	ear?	Yes X	No	(If no, exp	olain in Remarks.)	
Are Vegetation X	, Soil <u>X</u> , o	or Hydrology X	significantly dist	urbed?	Are "Normal Circ	cumstances	s" present?	Yes <u>X</u> No)
Are Vegetation	, Soil, o	or Hydrology	naturally problem	natic?	(If needed, expla	ain any ans	wers in Re	marks.)	
SUMMARY OF	FINDINGS -	- Attach site	map showing	sampli	ng point loca	ations, tr	ansects	, important fea	tures, etc.
Hydrophytic Vegeta	tion Present?	Yes X	No	Is th	e Sampled Area	ı			
Hydric Soil Present	?	Yes X	No	with	in a Wetland?	•	Yes X	No	
Wetland Hydrology	Present?	Yes X	No						

VEGETATION – Use scientific names of plants.

Remarks: Wetland 7

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 1 (A)
3				Total Number of Dominant Species
4				Across All Strata: 1 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)			
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 15 x 1 = 15
4.				FACW species 0 x 2 = 0
5.				FAC species 110 x 3 = 330
		=Total Cover		FACU species 0 x 4 = 0
Herb Stratum (Plot size: 15)				UPL species 0 x 5 = 0
1. Juncus tenuis	110	Yes	FAC	Column Totals 125 (A) 345 (B)
2. Typha angustifolia		No	OBL	Prevalence Index = $B/A = 2.76$
3				
4				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6				X 2 - Dominance Test is >50%
7				$\frac{1}{2}$ = Dominance index is <3.0 ¹
8				4 - Morphological Adaptations ¹ (Provide supporting
0				data in Remarks or on a separate sheet)
3 10				Problematic Hydrophytic Vegetation ¹ (Explain)
10	125			
	125			Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Piot size: 5)			be present, unless disturbed or problematic.
1				Hydrophytic
2.		Tatal Queen		Vegetation
		= i otal Cover		Present? Yes X NO
Remarks: (Include photo numbers here or on a s	eparate sheet.)			

Sampling Point: SP-13

Profile Desc	ription: (Describe	to the dept	h needed to do	cument ti	he indica	itor or o	confirm the absence o	of indicators.)
Deptn		0/	Red	ox Featur	es Tuno ¹	1 002	Tautura	Demerke
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Туре	LOC	l exture	Remarks
0-8	10YR 5/1	75	7.5YR 5/8	25	C	Μ	Loamy/Clayey	Prominent redox concentrations
		·						
		·						
4								
'Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix,	MS=Mas	ked Sand	I Grains	. ² Location:	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:				· (0.0)		Indicator	s for Problematic Hydric Soils":
Histosol	(A1)		Sandy GI	eyed Mat	rix (S4)		<u>?</u> Coasi	t Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Re	edox (S5)	2,		Iron-N	Aanganese Masses (F12)
Black His	stic (A3)		Stripped	Matrix (St	5)			Parent Material (F21)
Hydroger	n Sulfide (A4)		Dark Sur	race (S7)			Very	Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy M				Other	(Explain in Remarks)
	Rolow Dork Curf	- (A 1 1)		Motrix (C	uix (F2) 2)			
Depleted	Below Dark Surface	e (ATT)		Watrix (F	3) 20 (FC)		³ Indiantar	of hydrophytic vocatation and
Thick Da	usky Minoral (S1)			Dork Suria	;е (го) faco (Е7)		muicator	s of hydrophytic vegetation and
Sandy IV	cky Post or Post (S1)	2)	Depieted				wella	s disturbed or problematic
		5)		epiession	5 (1 0)		unes	s disturbed of problematic.
Restrictive L	ayer (if observed):	-						
Type:	Haropa	<u>n</u>						
Depth (In	cnes):	8					Hydric Soli Present	? res <u>×</u> No
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	ators (minimum of o	one is requir	ed; check all that	t apply)			Secondar	y Indicators (minimum of two required)
Surface \	Water (A1)		Water-Sta	ained Lea	ives (B9)		Surfa	ce Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic F	auna (B1	3)		X Drain	age Patterns (B10)
X Saturatio	n (A3)		True Aqu	atic Plant	s (B14)		Dry-S	eason Water Table (C2)
Water Ma	arks (B1)		Hydroger	n Sulfide (Jdor (C1) Indexes D	Crayf	ish Burrows (C8)
Sedimen	t Deposits (B2)			Rhizosph	eres on L		oots (C3) <u>X</u> Satur	ation Visible on Aerial Imagery (C9)
	USILS (D3) t or Crust (B4)		Presence		tion in Ti	Uad Sail		ed of Stressed Plants (DT)
	nsits (B5)		Thin Muc	k Surface	(C7)	lieu Juli		Neutral Test (D5)
	on Visible on Aerial I	magery (B7) Gauge or	Well Dat	a (D9)			
Sparselv	Vegetated Concave	Surface (B	8) Other (F)	colain in R	Remarks)			
Eield Obser	vations:		o) <u> </u>		(0.110)			
Surface Wate	er Present? Ye	20	No X	Denth (i	nches).			
Water Table	Present? Ye	es	No X	Depth (i	nches).			
Saturation Pr	resent? Ye	es X	No	Depth (i	nches):	0	Wetland Hydrolog	y Present? Yes X No
(includes car	illary fringe)			• • •	· _			
\	corded Data (stream	gauge, mo	nitoring well, aeri	al photos	, previou	s inspec	tions), if available:	
Describe Red	(
Describe Rec								
Describe Rec								
Describe Red Remarks:								

Project/Site: I-69/SR	14 Interchange (Des. No.: 1800091)	City/Cou	nty: Fort Wayne,	Allen Co	unty	Sampling Date:	9/25/19			
Applicant/Owner:	Indiana Department of Transportation			State:	IN	Sampling Point:	SP-14			
Investigator(s): M. Ke	estner & M. Aldridge	Section, 1	ownship, Range:	S12 T3	0N R12E					
Landform (hillside, te	rrace, etc.): Median		Local relief (concav	ve, conve	ex, none): <u>N</u>	lone				
Slope (%): 2-6	Lat: 41.073116 Long: -85.227996 Datum: NAD 83									
Soil Map Unit Name:	Glynwood silt loam, 2 to 6 percent slopes, eroded	d (MrB2)		N	IWI classifi	cation: N/A				
Are climatic / hydrolo	gic conditions on the site typical for this time of ye	ear?	Yes <u>X</u> No		(If no, expl	ain in Remarks.)				
Are Vegetation X	, Soil X , or Hydrology X significantly dist	urbed? A	Are "Normal Circum	nstances	" present?	Yes <u>X</u> No				
Are Vegetation	, Soil, or Hydrologynaturally probler	natic? (If needed, explain	any ansv	vers in Ren	narks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.										
Hydrophytic Vegeta	tion Present? Yes <u>No X</u>	Is the	Sampled Area							

Hydrophytic vegetation Present?	res	NO <u>X</u>	is the Sampled Area		
Hydric Soil Present?	Yes	No X	within a Wetland?	Yes	No X
Wetland Hydrology Present?	Yes	No X			
Remarks:					
Upland to wetland /					

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Dominance Test worksheet:
1				Number of Dominant Species That
2				Are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant Species
4				Across All Strata: 3 (B)
5				Percent of Dominant Species That
		=Total Cover		Are OBL, FACW, or FAC: 0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)			
1.				Prevalence Index worksheet:
2.				Total % Cover of: Multiply by:
3.				OBL species 0 x 1 = 0
4.				FACW species $0 x^2 = 0$
5.		·		FAC species $0 \times 3 = 0$
		=Total Cover		FACU species 105 x 4 = 420
Herb Stratum (Plot size: 15)				UPL species $0 \times 5 = 0$
1 Schedonorus arundinaceus	30	Yes	FACU	Column Totals: 105 (A) 420 (B)
2 I olium perenne	30	Yes	FACU	Prevalence Index = $B/A = 4.00$
3 Esstuce pretensis	30	Ves	FACU	
A Applaniae vorticillate	15	No		Hydrophytic Vagatation Indicators
			170	1 Denid Test for Ludrenbutic Vegetation
5	·	·		1 - Rapid Test for Hydrophytic Vegetation
6	·	·		
<i>1.</i>				3 - Prevalence Index Is ≤3.0
8.				4 - Morphological Adaptations' (Provide supporting
9		·		data in Remarks of on a separate sheet)
10				Problematic Hydrophytic Vegetation (Explain)
	105	=Total Cover		¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 5)			be present, unless disturbed or problematic.
1				Hydrophytic
2				Vegetation
		=Total Cover		Present? Yes No X
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

SOIL								Sar	mpling Point:	SP-14	
Profile Desc	cription: (Describe	to the depth	n needed to do	ocument t	he indica	ator or o	confirm the absence	of indicators	.)		
Depth	Matrix		Red	dox Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks		
0-10	10YR 5/2	100					Sandy				
¹ Type: C=Co	oncentration, D=De	letion, RM=F	Reduced Matrix	, MS=Mas	ked Sand	Grains	2Location	: PL=Pore Li	ning, M=Matri	х.	
Hydric Soil	Indicators:						Indicator	rs for Probler	matic Hydric	Soils ³ :	
Histosol	(A1)		Sandy G	leyed Mat	rix (S4)		Coas	t Prairie Redo	ox (A16)		
Histic Ep	pipedon (A2)		Sandy R	edox (S5)	. ,		Iron-	Manganese M	lasses (F12)		
Black His	stic (A3)		Stripped	Matrix (Se	3)		Red	Parent Materia	al (F21)		
Hydroge	n Sulfide (A4)		Dark Su	rface (S7)			Very	Shallow Dark	Surface (F22	2)	
Stratified	l Layers (A5)		Loamy N	/ucky Min	eral (F1)		Othe	r (Explain in F	Remarks)		
2 cm Mu	ick (A10)		Loamy C	Gleyed Ma	trix (F2)						
Depleted	Below Dark Surfac	e (A11)	Depleted	d Matrix (F	3)						
Thick Da	ark Surface (A12)		Redox D	ark Surfac	ce (F6)		³ Indicator	s of hydrophy	tic vegetatior	and	
Sandy M	lucky Mineral (S1)		Depleted	d Dark Sur	face (F7)		wetla	ent,			
5 cm Mu	icky Peat or Peat (S	Redox D	epression	s (F8)		unles	s disturbed o	r problematic			
Restrictive I	Layer (if observed)										
Type:	Hardpa	n									
Depth (ir	nches):	10					Hydric Soil Present	t?	Yes	No X	
HYDROLO	GY										
Wetland Hv	drology Indicators										
Primary India	cators (minimum of	one is require	ed; check all that	at apply)			Seconda	ry Indicators (minimum of t	wo required)	
Surface	Water (A1)		Water-S	tained Lea	ives (B9)		Surfa	ace Soil Crack	s (B6)		
High Wa	iter Table (A2)		Aquatic	Fauna (B1	3)		Drair	nage Patterns	(B10)		
Saturatio	on (A3)		True Aq	uatic Plant	s (B14)		Dry-S	Season Water	Table (C2)		
Water M	arks (B1)		Hydroge	n Sulfide (Odor (C1))	Cray	fish Burrows (C8)		
Sedimen	nt Deposits (B2)		Oxidized	l Rhizosph	eres on l	iving R	oots (C3) Satu	ration Visible	on Aerial Ima	gery (C9)	
Drift Dep	oosits (B3)		Presenc	e of Redu	ced Iron (C4)	Stun	ted or Stresse	ed Plants (D1)		
Algal Ma	it or Crust (B4)	Recent I	ron Reduc	tion in Ti	lled Soil	ls (C6) Geor	norphic Positi	on (D2)			
Iron Dep	osits (B5)	Thin Mu	ck Surface	e (C7)		FAC·	-Neutral Test	(D5)			
	on Visible on Aerial	Gauge c	or Well Dat	a (D9)							
Sparsely	vegetated Concav	e Sunace (Be		xpiain in F	(emarks		1				
Field Obser	vations:										
Surface Wat	er Present? Y	No <u>X</u>	Depth (i	nches):							
Vvater Table	Present? Y	es	No <u>X</u>	Depth (i	ncnes):		Wetley d Lludvele		Vee	Na V	
	reseril? f			Depth (i	nches).			gy Present?	res		
Describe Re	corded Data (stream	n gauge, mor	nitoring well. ae	rial photos	. previous	s inspec	tions), if available:				
		3 30, 1101			,						
Remarks:					-	_					

BACKGROUND INFORMATION

F-68 Attachment 11

A. REPORT COMPLETION DATE FOR PJD: 12/16/2019

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Mathew Aldridge; Burgess & Niple, Inc.; 251 N. Illinois St.; Capital Center Suite 920; Indianapolis, IN 46204

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: Des. No.: 1800091 (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: Indiana County/parish/borough: Allen County

City: Fort Wayne

Center coordinates of site (lat/long in degree decimal format):

Lat.: 41.074630 Long.: -85.226617

Universal Transverse Mercator: $_{16N}$

Name of nearest waterbody: Flaugh Ditch

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
Wetland 1	41.074708	-85.222657	0.012 acre	Wetland	Section 404
Wetland 2	41.074721	-85.223291	0.036 acre	Wetland	Section 404
Wetland 3	41.074260	-85.223936	0.103 acre	Wetland	Section 404
Wetland 4	41.074816	-85.225706	0.123 acre	Wetland	Section 404
Wetland 5	41.076387	-85.227363	0.177 acre	Wetland	Section 404
Wetland 6	41.073537	-85.227941	0.042 acre	Wetland	Section 404
Wetland 7	41.072823	-85.228019	0.080 acre	Wetland	Section 404

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

	Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: Map: ^{indianamap.org}
	Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale:
	Data sheets prepared by the Corps:
	Corps navigable waters' study:
	U.S. Geological Survey Hydrologic Atlas: <u>indianamap.org</u> .
	 USGS NHD data. USGS 8 and 12 digit HUC maps.
	U.S. Geological Survey map(s). Cite scale & quad name: <u>Fort Wayne West, IN - 7.5 Minute</u> .
	Natural Resources Conservation Service Soil Survey. Citation: <u>websoilsurvey.nrcs.usda.gov</u> .
	National wetlands inventory map(s). Cite name: <u>fws.gov/wetlands/Data/Mapper.html</u> .
	State/local wetland inventory map(s):
	FEMA/FIRM maps:
	100-year Floodplain Elevation is:(National Geodetic Vertical Datum of 1929) Photographs: ■ Aerial (Name & Date):
	or Other (Name & Date): Site Visit: September 25, 2019
\square	Previous determination(s). File no. and date of response letter:
	Other information (please specify): See attached Waters Report - INDOT Des. No.: 1800091

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of Regulatory staff member completing PJD

12/16/2019

Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

Appendix G

Public Involvement



Minutes Scoping Meeting I-69 at SR 14 Interchange Modification (East Half) Des. No. 1800091 Indiana Department of Transportation June 11, 2019, 1 P.M.

Invitee	Representing	Phone	Email
Brian Bauermeister, Area Engineer	Indiana Department of Transportation (INDOT)	(260) 969-8247	bbauermeister@ indot.in.gov
Cheryle Culler, Utility Engineer	Indiana Department of Transportation	(260) 969-8202	cculler@indot.in.gov
Susan Doell, Scoping Manager	Indiana Department of Transportation	(260) 969-8263	sdoell@indot.in.gov
Delaney Keirn	Indiana Department of Transportation	(260) 969-8276	dkeirn@indot.in.gov
Steven Lam	Indiana Department of Transportation	(260) 399-7349	slam@indot.in.gov
Brad McNair, Consultant Services Manager	Indiana Department of Transportation	(260) 399-7348	bmcnair@indot.in.gov
Karen Novak, Environmental Supervision	Indiana Department of Transportation	(260) 969-8202	knovak@indot.in.gov
Damien Perry, Project Manager	Indiana Department of Transportation	(260) 969-8266	dperry1@indot.in.gov
Dana Plattner, District Traffic Engineer	Indiana Department of Transportation	(260) 969-8233	dplattner@indot.in.gov
Matt Sagstetter	Indiana Department of Transportation	(260) 969-8217	msagstetter@indot.in.gov
Patrick Zaharako, City Engineer	City of Fort Wayne	(260) 427-1172	patrick.zaharako@ cityoffortwayne.org
Hoang Nam Pham	City of Fort Wayne		hoang.nam.pham@ cityoffortwayne.org
Jeff Bradtmiller, Senior Transportation Planner	Northeastern Indiana Regional Coordinating Council (NIRCC)	(260) 449-7309	jeff.bradtmiller@ co.allen.in.us
*Joiner Lagpacan, Transportation Engineer	Federal Highway Administration (FHWA)	(317) 226-5617	joiner.lagpacan@dot.gov
*Dan McCoy, Traffic Mobility Engineer	INDOT	(317) 233-3943	dmccoy@indot.in.gov
*Jeremy Vanvleet, Traffic Engineer	INDOT	(317) 232-2788	jvanvleet@indot.in.gov
*Kyle Winling, Traffic Engineer	City of Fort Wayne	(260) 427-1172	kyle.winling@ cityoffortwayne.org
Marc Rape, Project Manager	Strand Associates, Inc.® (Strand)	(812) 372-9911	marc.rape@strand.com
Andrea Bland, Project Engineer	Strand Associates, Inc.®	(812) 372-9911	andrea.bland@strand.com

*Present via conference call

Project Information and Schedule 1.

This project is scheduled for a December 9, 2020 letting and is bundled with Des. No. 1401828 (the west half of this interchange) and Des. No. 1600115 (SR 14 HMA Overlay) in Contract No. R-41809. Damien will send Strand other projects in the area to include in the scoping document and to coordinate maintenance of traffic, if applicable.



G-3 Scoping Meeting Minutes Des. No. 1800091 Page 2 of 3 June 11, 2019, 1 P.M.

The possibility of skipping or modifying the Stage 2 submittal to only include traffic items was discussed. If a Stage 2 submittal is desired, the schedule will be amended from March 1 to February 1, 2020. Strand will coordinate the status of this submittal with Damien.

Time should also be allocated for Central Office to review these plans. Damien is planning on requesting expedited reviews.

It was mentioned that the new signal may need its own Des. No. *Following the meeting Damien confirmed that this was the case.*

2. <u>Project Intent Addendum and Interstate Access Document (IAD)</u>

Dana would like to include a signal warrant analysis in the addendum to have the formal documentation. Strand will use the newest counts from the Traffic Count Database System Web site to complete the warrant. Strand will also confirm that the given growth rates for the study completed in 2016 are still accurate for current counts. *After the meeting, Jeff contacted Andrea regarding the growth rates. NIRCC believes the rates are low but there is not a need to update the report.*

In addition to the signal warrant, this addendum will include updates to the cost estimate, the merge level of service (LOS) on I-69 because of the longer acceleration lanes, and maintenance of traffic schemes. An updated conceptual drawing will be sent to Dan in Corridor Development to review.

The addendum will then be attached as an appendix to the IAD. The IAD will also be updated after approval of the CE document with a paragraph stating that there were no additional impacts.

3. <u>Environmental Documentation</u>

The environmental document for Des. No. 1401828 is a CE-4 and is nearly complete, pending public involvement. Meghan Hinkle from Central Office Environmental Services was interested in combining the two environmental documents. However, they are being completed by two different subconsultants; Metric Environmental on Des. No. 1401828 and Burgess & Niple on Des. No. 1800091. Strand will coordinate with both subconsultants, Central Office Environmental Services, and District Environmental Services to determine a course of action.

A public hearing will be required for this project. Damien prefers to plan on having a hearing rather than just advertising to avoid any potential lost time. Dan recommended that we really emphasize the safety improvements of the partial cloverleaf at the hearing. At times, people have been very attached to full cloverleafs because they like the free-flow movements. NIRCC will provide Strand with updated crash data to use for the public hearing.

4. <u>Miscellaneous</u>

While proprietary material documentation for the signal controllers had been previously discussed, Dana and Matt are not sure whether this is necessary anymore with their new modems. Matt will look into the signal equipment and let Strand know what will be required.

No changes to turn-lane geometry is proposed at Illinois Road and Magnavox Way. A dual eastbound left movement had been discussed but would require split phasing, which the City of Fort Wayne does not want.

There is a sanitary sewer line that runs under the north side of the interchange. This is expected to be deep enough that it will not affect any project operations.

It was discussed that a brief ramp closure may be needed to tie in the new pavement with the existing southeast diagonal ramp; however, the INDOT would prefer that the ramp remain open, if possible.



G-4 Scoping Meeting Minutes Des. No. 1800091 Page 3 of 3 June 11, 2019, 1 P.M.

The District has a project letting in July to install CCTV equipment. It does not appear that anything will be in conflict with this contract as the CCTV work is in the northeast quadrant.

If there are any additions or comments, please e-mail me or call me at 812-372-9911 ext. 4416.

Prepared and respectfully submitted by Andrea Bland.

c: All Participants

Appendix H

Air Quality

Indiana Department of Transportation (INDOT)

State Preservation and Local Initiated Projects FY 2020 - 2024

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	МАТСН	2020	2021	2022	2023	2024
Indiana Department of Transportation	41641 / 1801807	Init.	US 30	Other Intersection Improvement	7.4 miles W of US 33 (at CR 800E/County Line Road, Whitley/	Fort Wayne	.94	NHPP		Mobility Construction	CN	\$960,000.00	\$240,000.00				\$1,200,000.00	
Huntertown	41664 / 1801749	Init.	ST 1039	Road Reconstruction (3R/4R Standards)	Carroll Rd: Lima Rd (SR 3) to Coral Springs Dr/Shearwater Run	Fort Wayne	.4	STPBG		Fort Wayne MPO	CN	\$2,301,000.00	\$0.00			\$2,301,000.00		
										Fort Wayne MPO	RW	\$125,000.00	\$0.00		\$125,000.00			
										Local Funds	CN	\$0.00	\$575,299.00			\$575,299.00		
										Local Funds	RW	\$0.00	\$31,250.00		\$31,250.00			
Huntertown	41664 / 1801749	M 02	ST 1039	Road Reconstruction (3R/4R Standards)	Carroll Rd: Lima Rd (SR 3) to Coral Springs Dr/Shearwater Run	Fort Wayne	.4	STBG	\$2,250,000.00	Fort Wayne MPO	CN	-\$501,000.00	\$0.00			(\$2,301,000.00)	\$1,800,000.00	
										Local Funds	CN	\$0.00	-\$125,299.00			(\$575,299.00)	\$450,000.00	
Comments:Move CN	rom 2022 t	o 2023 an	d reduce fu	nding per NIRC 2020-202	24 TIP								•			Į.		
Indiana Department of Transportation	41808 / 1592638	Init.	SR 3	HMA Overlay, Preventive Maintenance	From I-69 to 3.58 miles N of I-69	Fort Wayne	3.51	STPBG		Road Construction	CN	\$4,470,080.00	\$1,117,520.00	\$5,587,600.00				
Indiana Department of Transportation	41809 / 1401828	Init.	1 69	Interchange Modification	At SR 14 interchange. (SW Loop)	Fort Wayne	2.125	NHPP		Safety Construction	CN	\$1,186,629.30	\$131,847.70	\$1,318,477.00				
	•					•	•		•	Road Construction	CN	\$1,394,493.30	\$154,943.70	\$1,549,437.00				
Indiana Department of Transportation	41809 / 1800091	Init.	1 69	Interchange Modification	At SR 14 interchange. (NE Loop and SE Ramp)	Fort Wayne	2.122	NHPP		Mobility Construction	CN	\$901,221.30	\$100,135.70				\$1,001,357.00	
Indiana Department of Transportation	41810 / 1383542	Init.	SR 37	Small Structure Pipe Lining	UNI Interceptor Ditch (Hamm), 3 .05 Miles N of SR 101	Fort Wayne	0	STPBG		Bridge Construction	CN	\$457,830.40	\$114,457.60	\$572,288.00				
Indiana Department of Transportation	41906 / 1802965	Init.	SR 101	HMA Overlay, Preventive Maintenance	From 3.73 Miles South.of US 30 to 2.56 Miles South of US 30.	Fort Wayne	1.17	STPBG		District Other Construction	CN	\$442,000.00	\$110,500.00	\$552,500.00				
Indiana Department of Transportation	41906 / 1802965	A 03	SR 101	HMA Overlay, Preventive Maintenance	From 3.73 Miles South.of US 30 to 2.56 Miles South of US 30.	Fort Wayne	1.17	STBG	\$552,500.00	District Other Construction	CN	\$442,000.00	\$110,500.00	\$552,500.00				
Comments:NIRCC MF	PO TIP Res	olution 20-	-1 dated 7-	16-19. DES 1802965 addi	ing CN to FY 2020 for \$552,500.			•	-									
Allen County	41955 / 1802912	A 04	IR 4900	Road Reconstruction (3R/4R Standards)	Fogwell Parkway from Lafayette Center Road to Winters Road	Fort Wayne	.947	STBG	\$8,900,000.00	Local Funds	CN	\$0.00	\$1,634,000.00					\$1,634,000.00
	-									Local Funds	PE	\$0.00	\$146,000.00	\$146,000.00				
										Group IV Program	CN	\$6,536,000.00	\$0.00					\$6,536,000.00
										Group IV Program	PE	\$584,000.00	\$0.00	\$584,000.00				
Indiana Department of Transportation (INDOT)

State Preservation	h and Local Init	iated Proiects F	Y 2018 - 2021
etate i recentration	Tana Eodai Init	latea i rejecto i	LOID LOEI

SPONSOR	CONTR ACT # / LEAD DES	STIP NAME	ROUTE	WORK TYPE	LOCATION	DISTRICT	MILES	FEDERAL CATEGORY	Estimated Cost left to Complete Project*	PROGRAM	PHASE	FEDERAL	МАТСН	2018
Indiana Department of Transportation	41568 / 1800034	A 33	1 469	Interchange Modification	I-469 SB off-ramp @ SR 37	Fort Wayne	.38	Safety	\$471,912.00	Safety Consulting	PE	\$72,000.00	\$8,000.00	
Comments:NIRCC Re	solution 18-	137 for D	ES 1800034	4. Adding PE to FY 2019	into FY 2018 - 2021 STIP.	•			1			I		
Indiana Department of Transportation	41580 / 1800089	A 33	1 469	Interchange Modification	I-469 at I-69 N Jct.	Fort Wayne	1.752	NHPP	\$8,822,302.00	Mobility Consulting	PE	\$1,170,000.00	\$130,000.00	
Comments:NIRCC Re	solution 18-	139 for D	ES 180008	9. Adding PE to FY 2019	into FY 2018 - 2021 STIP.			1	1			I I_	I	
Indiana Department of Transportation	41641 / 1801807	A 30	US 30	Other Intersection Improvement	7.4 miles W of US 33 (at CR 800E/County Line Road, Whitley/	Fort Wayne	.94	NHPP	\$1,360,000.00	Mobility Consulting	PE	\$128,000.00	\$32,000.00	
Comments:NO MPO.	DES 18018	07 adding	PE to FY 2	019 into FY 2018 - 2021	STIP.	•								
Indiana Department of Transportation	41643 / 1800091	A 33	1 69	Interchange Modification	At SR 14 interchange.	Fort Wayne	2.122	NHPP	\$1,151,357.00	Mobility Consulting	PE	\$135,000.00	\$15,000.00	
Comments:NIRCC Re	solution 18-	140 for D	ES 180009	1. Adding PE to FY 2019	into FY 2018 - 2021 STIP.	•		•		•				
Huntertown	41664 / 1801749	A 30	ST 1039	Road Reconstruction (3R/4R Standards)	Carroll Rd: Lima Rd (SR 3) to Coral Springs Dr/Shearwater Run	Fort Wayne	.4	STP	\$2,877,000.00	Local Funds	PE	\$0.00	\$50,000.00	
		•							•	Local Funds	RW	\$0.00	\$46,550.00	
										Fort Wayne MPO	PE	\$200,000.00	\$0.00	
										Fort Wayne MPO	RW	\$186,000.00	\$0.00	
Comments:Add project	t to STIP fo	r PE												
Allen County	41955 / 1802912	A 41	IR 4900	Road Reconstruction (3R/4R Standards)	Fogwell Parkway from Lafayette Center Road to Winters Road	Fort Wayne	.947	STPBG	\$6,570,000.00	Local Funds	PE	\$0.00	\$730,000.00	
Comments:Adding ne	w project to	STIP. NIF	RCC Resolu	ition 19-161										
Indiana Department of Transportation	41961 / 1900512	A 37	SR 930	Asphalt Patching	I-69 to 4.97 Miles West of I-469 (at the Cloverleaf).	Fort Wayne	7.4	STPBG	\$350,000.00	Road Construction	CN	\$280,000.00	\$70,000.00	
Comments:NIRCC Re	solution 19-	158. DES	5 1900512 A	dding CN to FY 2019 into	FY 2018 - 2021 STIP.			1						
Indiana Department of Transportation	41961 / 1900516	A 37	US 27	Asphalt Patching	From 1.89 Miles South of I-69 (Edgewood Ave) to I-69.	Fort Wayne	1.87	NHPP	\$200,000.00	Road Construction	CN	\$160,000.00	\$40,000.00	
Comments:NIRCC Re	solution 19-	159. DES	1900516 a	dding CN to FY 2019 into	FY 2018 - 2021 STIP.	•		•	•		•	·	Į.	
Allen County Total Federal: \$19	2,779,480.	43	Match :\$	64,761,955.37	2018: \$76,545,239.86	2019: \$71,10	00,368.73	2020: \$39	9,518,607.60	2021: \$70,3	77,219.62			

Н	[_3

2019	2020	2021
\$80,000.00		
\$1,300,000.00		
\$160,000.00		
\$150,000.00		
\$50,000.00		
		\$46,550.00
\$200,000.00		
		\$186,000.00
	\$730,000.00	
\$350,000.00		
\$200,000.00		

INDOT Roadway Projects

Project Location	Contract			Estimated Cost Othe					Other	Federal	State
(Description of Project)	#	DES #	Phase	2020	2021	2022	2023	2024*	Year	Funds	Funds
I-69 at Coldwater Rd Interchange											
From 1.17 mi e/o SR 3 to 1.68 mi e/o											
SR 3	40515	1702131									
Intersect. Improv. W/ New Signals			CN		3,000,000					2,700,000	300,000
I-69 and Coldwater Rd			PE						2019	697,500	77,500
(from 0.99 mi n/o SR 3 to 1.74 mi n/o											
SR 3)	R-41544	1800036	PE	775,000						697,500	77,500
Interchange Modification, NW											
Quadrant Modification			CN				3,463,169			3,116,852	346,317
I-69 and Coldwater Rd			PE						2019	270,000	30,000
Coldwater Rd Bridge over I-69 (from											
1.24 mi e/o SR 3 to 1.3 mi e/o SR 3)	R-41544	1800162									
HMA Overlay Minor Structural			CN				1,707,853			1,537,068	170,785
1-69			PE						2019	120,000	30,000
at SR 14 Interchange	R-41643	1800091								ŗ	
Interchange Modification			CN				1.001.357			901.221	100.136
1-69			PE				,,		2019	22,500	2.500
Bridge at I-469 DRN over I-69, 5.69										,	_,
mi s/o US 24	B-41068	1800587									
Bridge Painting			CN		412,629					371,366	41,263
I-469			PE						2018	247,500	27,500
Bridge over Lafayette Ctr Rd, EB											
0.94 mi e/o I-69	B-40466	1701375									
Partial Super Replacement			CN		2,040,201					1,836,181	204,020
I-469			PE						2018	247,500	27,500
Bridge over Lafayette Ctr Rd, WB											
0.94 mi e/o I-69	B-40466	1701376									
Partial Super Replacement			CN		2,040,201					1,836,181	204,020
1-469			PE						2019	64,000	16,000
SB off-ramp at SR 37	R-41568	1800034									
Interchange Modification			CN				391.912			352.721	39.191
J-469		1	PE				- ,- ·		2019	1.040.000	260.000
at I-69 N Junction	R-41580	1800089								.,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Interchange Modification			CN				7.522.302			6.770.072	752.230

Appendix I

Additional Studies