

Wetland Delineation Report

J. Harvey Crow Parcel Miller Road Brecksville, Cuyahoga County, Ohio

Prepared for

Crowland LTD
Independence, Ohio

Prepared by


Shaw[™] Shaw Environmental, Inc.

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October 2009



UPDATED WETLAND DELINEATION

for

**J. HARVEY CROW PARCEL
CUYAHOGA COUNTY, OHIO
October 2009**

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EXECUTIVE SUMMARY

Crowland LTD contracted Shaw Environmental, Inc. (Shaw) to re-delineate a previous wetland delineation performed at the J. Harvey Crow Parcel site (the Site), located in the City of Brecksville, Cuyahoga County, Ohio. The previous wetland delineation was completed by Beak Consultants, Inc. (Beak) in October 2000. At that time, the Army Corps of Engineers (Corps) completed a jurisdictional determination based upon Beak's previous delineation. A wetland update was needed in this case because the Corps' jurisdictional determination for the Site, based upon Beak's survey in 2000, had expired and because Crowland LTD expanded the Site limits slightly further to the west (adjacent to Interstate I-77).

Shaw completed the wetland delineation field investigation September 15 and 16, 2009 using methods established in the 1987 *Corps of Engineers Wetlands Delineation Manual*. In some cases, Shaw determined that the original wetland boundaries, as presented in previous wetland delineation report (October 2000), had increased in size. The original delineation had identified a total of 41 wetlands covering 9.94 acres. During Shaw's updated wetland assessment, it was determined that a total of 19 wetlands had either expanded (since 2000) or increased in size due to the revised property boundary, which was moved further toward the west (adjacent to I-77). Additionally, a total of three new wetlands were identified on the Site and identified as Wetland RR (0.12 acres), Wetland SS (0.20 acres), and Wetland TT (0.05 acres). The additional wetland acreage at the Site was determined to be 4.06 acres. Combined, the total wetland acreage for the Site has increased to 14.00 acres (44 wetlands).

Shaw's updated wetland delineation also included an assessment of whether or not any changes had occurred to stream designations previously documented at the Site. As previously reported, two stream channels traverse the Site (Streams A and B). Stream A flows through the center of the Site and was recorded to be 2,356 linear feet. Stream B occurs near the northwest corner of the Site and was recorded to be 1,872 linear feet. These stream segments flow north and are both intermittent tributaries to Chippewa Creek. Additionally, there are two small ephemeral streams associated with Stream B (Stream B-1 and Stream B-2). These ephemeral streams have a combined linear length of approximately 500 linear feet (281 lf and 220 lf, respectively) within

the Site. In addition, one new ephemeral stream (EPH-1) was documented on the western portion of the Site. EPH-1 was recorded to be 719 linear feet.

Following construction of Interstate-77 (I-77) on the west side of the Site in the 1970's and drainage alterations done by the Veteran's Administration Hospital on the east side of the Site, a network of drainage ditches was excavated by Mr. Crow to better drain the Site. Shaw understands that these drainage ditches were not considered to be Corps-jurisdictional, based upon the previous determination that was made by the Corps in 2000. Shaw observed no new streams, tributaries or open water areas on the Site during the April 2006 updated delineation, other than EPH-1.

1.0 INTRODUCTION

Crowland LTD contracted Shaw Environmental, Inc. (Shaw) to perform an updated wetland delineation at the J. Harvey Crow Parcel site (the Site) located in the City of Brecksville, Cuyahoga County, Ohio. A previous wetland delineation was completed at the Site in 2000 by Beak Consultants, Inc. (Beak). At that time, Beak identified a total of 41 federal wetland covering 9.94 acres on a parcel of land containing approximately 86.5 acres (see Appendix E). The Site is bordered to the north by residential property, to the east by the Veteran's Administration Hospital, to the south by Miller Road, and to the west by Interstate 77 (Figure 1). A wetland update was needed in this case because Beak's original delineation, which was verified by the Corps in 2000, had expired and Crowland LTD extended the Site limits further toward the west (adjacent to Interstate I-77).

Shaw completed the updated wetland delineation field investigation September 15 and 16, 2009, using methods established in the 1987 *Corps of Engineers Wetlands Delineation Manual*. Shaw's investigation also determined whether any stream designation changes were needed, relative to the previous stream delineation findings. The results of Shaw's investigation are presented in this report.

2.0 AGENCY RESOURCE INFORMATION

Prior to initiating the updated wetland delineation study, Shaw reviewed the following background information for the Site, which included the extended Site limits toward the west (adjacent to interstate I-77):

- The U.S. Geological Survey (USGS) 7.5-minute topographic map (Broadview Heights, Ohio quadrangle) to assess general topography, drainage patterns, and the presence of wetlands, streams, or ponds. The Site is located on the east side of Interstate 77 (I-77), north of Miller Road and west of the Veteran's Administration Hospital in the City of Brecksville, Cuyahoga County, Ohio. The Site is situated between 1090 and 1100 feet above mean sea level and has a generally flat topography but slopes slightly the northeast and southeast (see Figure 1 in Appendix A).
- A recent aerial photograph of the Site depicts the area as primarily forested and undeveloped. Approximately two residential structures are shown in the southern portion of the Site. Additionally, two very narrow clearings are present in the eastern and northern portions of the property. Both likely represent the sanitary sewer easement that is present on-site. No areas of open water or streams are shown in the aerial photograph (see Figure 2 in Appendix A).
- Shaw reviewed the *Soil Survey of Cuyahoga County, Ohio* (USDA Soil Conservation Service 1980 Sheet 61) to identify soil types mapped on the Site and to determine if the soils are considered to be hydric or contain hydric inclusions (see Figure 3 in Appendix A). The survey indicates the presence of three soil types within the Site: Mahoning silt loam, 0-2% slopes (MgA); Mahoning silt loam, 2-6% slopes (MgB); and Udorthents (Ua). Mahoning silt loam, 0-2% slopes (MgA) is the only soil mapped on the Site that is classified as a hydric soil (USDA Soil Conservation Service 1992). This soil type comprises the majority of the Site. Additional soil information is presented in Table 1.

- The U.S. Fish and Wildlife Service National Wetland Inventory (NWI) map (Broadview Heights, Ohio) to locate any federally mapped wetlands (Figure 4). There is a moderate-sized palustrine scrub-shrub (PSS1Y) wetland mapped in the central portion of the Site. This wetland is classified as a broad-leaved deciduous saturated/ semi permanent/ seasonal wetland.

3.0 METHODS

Shaw completed the updated wetland delineation on the Site according to the *Corps of Engineers Wetlands Delineation Manual* (Department of the Army 1987), with guidance from Williams (1992). A systematic search of the Site was conducted to look for all previously-identified wetlands, as well as any potential new wetland areas present. Shaw utilized a global positioning system (GPS) and coordinates from the previous wetland delineation to locate Wetlands A through QQ. In most instances, Shaw was able to locate most of the original flagging from the previous delineation to evaluate whether or not the wetland limits had changed since 2000.

In cases where new wetland areas were observed, a pair of sample points was established. One sample point was placed within the apparent wetland community and the other was placed within the apparent upland community. The routine sample points placed in non-wetland areas were used to document the lack of at least one of the three wetland criteria. Vegetation, soil, and hydrology data were collected at each sample point. The data were used to determine the location of the wetland boundary between the two sample points (see Appendix C).

Vegetation data were recorded by listing the dominant plants present within a 5-ft radius plot for herbaceous plants and a 30-ft radius plot for trees, shrubs, and vines. Species dominance was determined using the "dominance measure method" outlined in the 1989 *Federal Manual for Identifying and Delineating Jurisdictional Wetlands* (Federal Interagency Committee for Wetland Delineation 1989), a methodology accepted by the ACOE for use in conjunction with the 1987 manual (Williams 1992). The hydrophytic vegetation criterion is met when greater than fifty percent of the dominant plants have an indicator status of facultative (FAC), facultative wetland (FACW), or obligate wetland (OBL).

Hydrology and soils were examined at each sample point using a 2-inch soil auger. Site hydrology was documented by measuring the depth to free water and/or saturated soils in the bore hole, as well as noting additional indicators of wetland hydrology (e.g., water marks, sediment deposits, water stained leaves). Soil colors were determined by comparing a soil

sample from immediately below the A-horizon (or from a depth of 10 inches, whichever was shallower) against *Munsell Soil Color Charts* (Kollmorgen Corporation 1994).

Sample point locations were marked in the field with flagging. The perimeter of each wetland, including boundaries of any previously identified wetland that had increased in size, was marked with sequentially numbered survey flagging. The flagging contained the wetland identification letter and the flag number, for field identification and surveying purposes. The updated wetland boundaries were then plotted on a base map for the Site and include the revised wetland acreage, where applicable (see Figure 5).

4.0 SITE ECOLOGY

The following sections describe the wetland and upland plant communities present within the Site and whether any evidence of site disturbance was observed during Shaw's field investigation. In general, no significant changes to the Site ecology were noted, relative to the findings presented in Beak's previous delineation report. The expanded property limits toward the west (adjacent to Interstate I-77) contained similar plant communities to other areas of the Site. A general summary of the Site ecology, based upon Shaw's updated wetland delineation survey, is presented below.

4.1 Plant Communities

Seven plant communities were observed within the Site: forested wetland, wetland scrub-shrub, wet meadow, emergent marsh, upland forest, successional old field, and maintained lawn. The dominant plants present within each community are listed in Table 2 (see Appendix B).

4.2 Disturbed Areas

No recent areas of disturbance were discovered within the Site, with the exception of the spoil piles resulting from the excavation of a network of ditches following the construction of I-77 in the 1970's. Some small debris piles were observed scattered on the Site. Additionally, a stockpile of soil was observed in the southern portion of the Site located to the west of Wetland LL. No other evidence of site disturbance was observed.

5.0 RESULTS & CONCLUSIONS

Shaw located and confirmed the delineation limits to the original wetlands that were identified by Beak in 2000. At that time, a total of 41 wetlands were delineated at the Site (i.e., Wetlands A through QQ), which consisted of 9.94 acres. Based upon field observations made in September 2009, Shaw determined that 19 of the original wetlands had increased in size since 2000, which was due to either wetland expansion or because additional property was added to the Site compared to the original property limits. Specifically, the western property boundary was moved further to the west (i.e., adjacent to I-77) during Shaw's updated delineation. In addition to the expanded wetlands, a total of three new wetlands (i.e., Wetland RR, SS, and TT) were identified. Based upon Shaw's updated assessment, the additional wetland acreage was determined to be 4.06 acres. Combined, a total of 44 wetlands are present on the Site covering an area of 14.00 acres. A summary of the wetland findings, including documentation of updated wetland expansion areas, is presented in Table 3. The updated wetland delineation map is presented as Figure 5.

Shaw observed no significant changes to stream designations previously documented at the Site in 2000. Shaw's updated wetland delineation also included an assessment of whether or not any changes had occurred to stream designations previously documented at the Site. As previously reported, two stream channels traverse the Site (Streams A and B). Stream A flows through the center of the Site and was recorded to be 2,356 linear feet. Stream B occurs near the northwest corner of the Site and was recorded to be 1,872 linear feet. These stream segments flow north and are both intermittent tributaries to Chippewa Creek. The Ohio Environmental Protection Agency (OEPA) Water Quality standard (Chapter 3745-1 of the Administrative Code) does not include Chippewa Creek in the lists of exceptional warm water or coldwater habitat streams. Additionally, there are two small ephemeral streams associated with Stream B (Stream B-1 and Stream B-2). These ephemeral streams have a combined linear length of 501 linear feet (281 lf and 220 lf, respectively) within the Site. In addition, a new ephemeral stream (EPH-1) was documented on the western portion of the Site. EPH-1 was recorded to be 719 linear feet.

Shaw observed a network of excavated drainage ditches that occur across the Site and are ultimately connected to either Stream A or B. Shaw understands that these ditches were previously installed by Mr. Crow following construction of Interstate-77 (I-77) on the west side of the Site (1970's) and drainage alterations done by the Veteran's Administration Hospital on the east side of the Site. Shaw did not observe any indication that changes have been made to this network of drainage ditches since 2000. During the previous J/D review in 2000, the Corps did not assume regulatory jurisdiction over these man-made drainage ditches. Other than EPH-1, Shaw observed no new streams, tributaries or open water areas at the Site.

The locations and boundaries of the wetlands and streams are shown in Figure 5. The sample point locations and photograph locations are also presented in Figure 5. The field data sheets for all new wetland sample points are included in Appendix C. Photographs of some of the expanded or new wetlands that were delineated at the Site during this updated assessment are attached in Appendix D.

6.0 REFERENCES

- Department of the Army. 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1. Corps of Engineers, Waterways Experiment Station. Vicksburg, Mississippi.
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Field Delineators:

Mike Waligura

Scott West

APPENDIX A

FIGURES

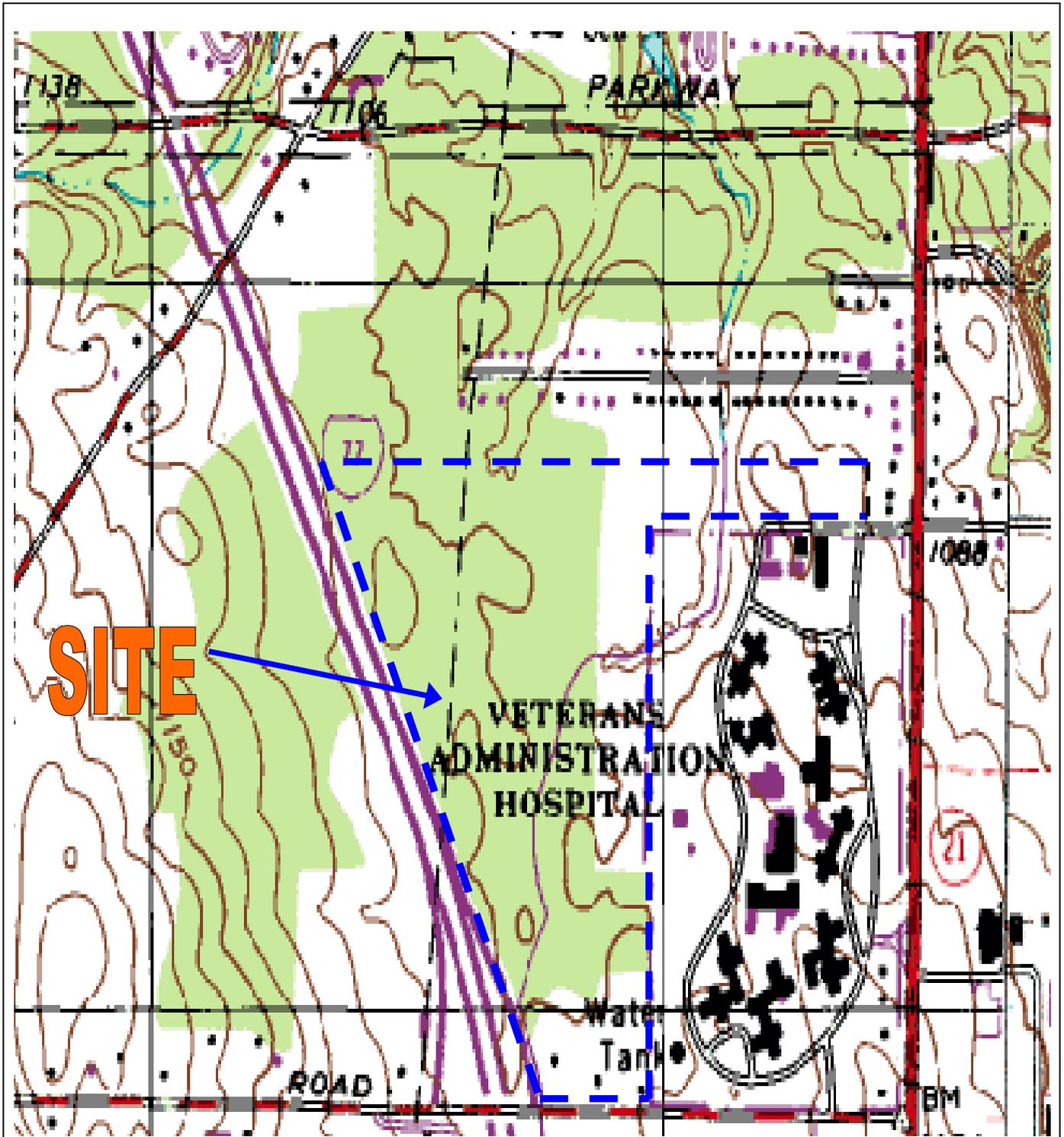


Figure 1 Site Location Map

J. Harvey Crow Parcel
 Brecksville, Cuyahoga County, Ohio
 USGS Broadview Heights, OH Quadrangle

↑
NORTH


Shaw
 Shaw Environmental & Infrastructure, Inc.



SITE



© 2006 Europa Technologies

Google

Pointer 41°17'45.84" N 81°38'04.70" W elev 1089 ft

Streaming 100%

Eye alt 6715 ft



Shaw Environmental & Infrastructure, Inc.

Figure 2 Site Aerial

J. Harvey Crow Parcel
Brecksville, Cuyahoga County, Ohio

↑
NORTH

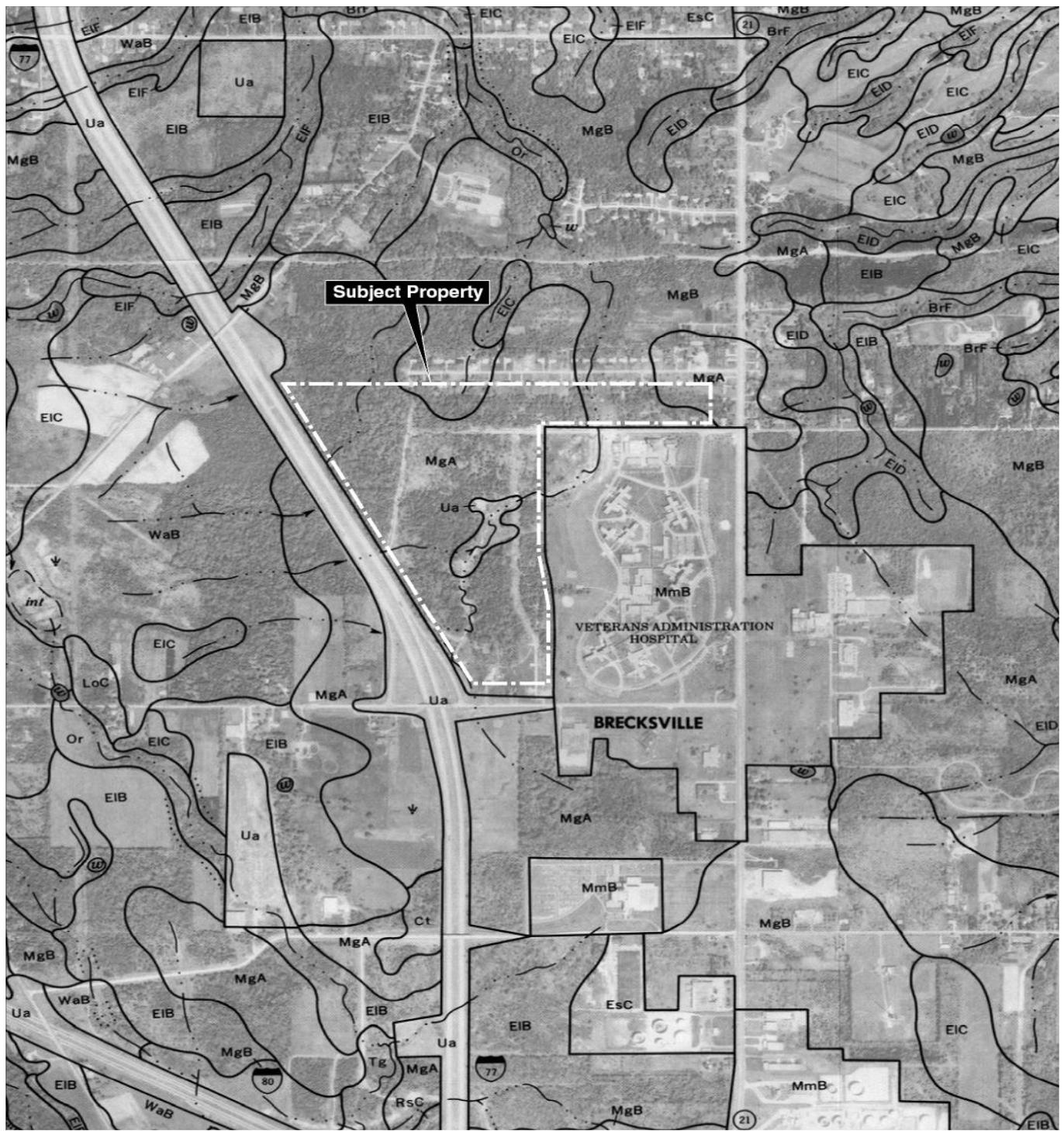


Figure 3 Soil Survey map

J. Harvey Crow Parcel
Brecksville, Cuyahoga County, Ohio

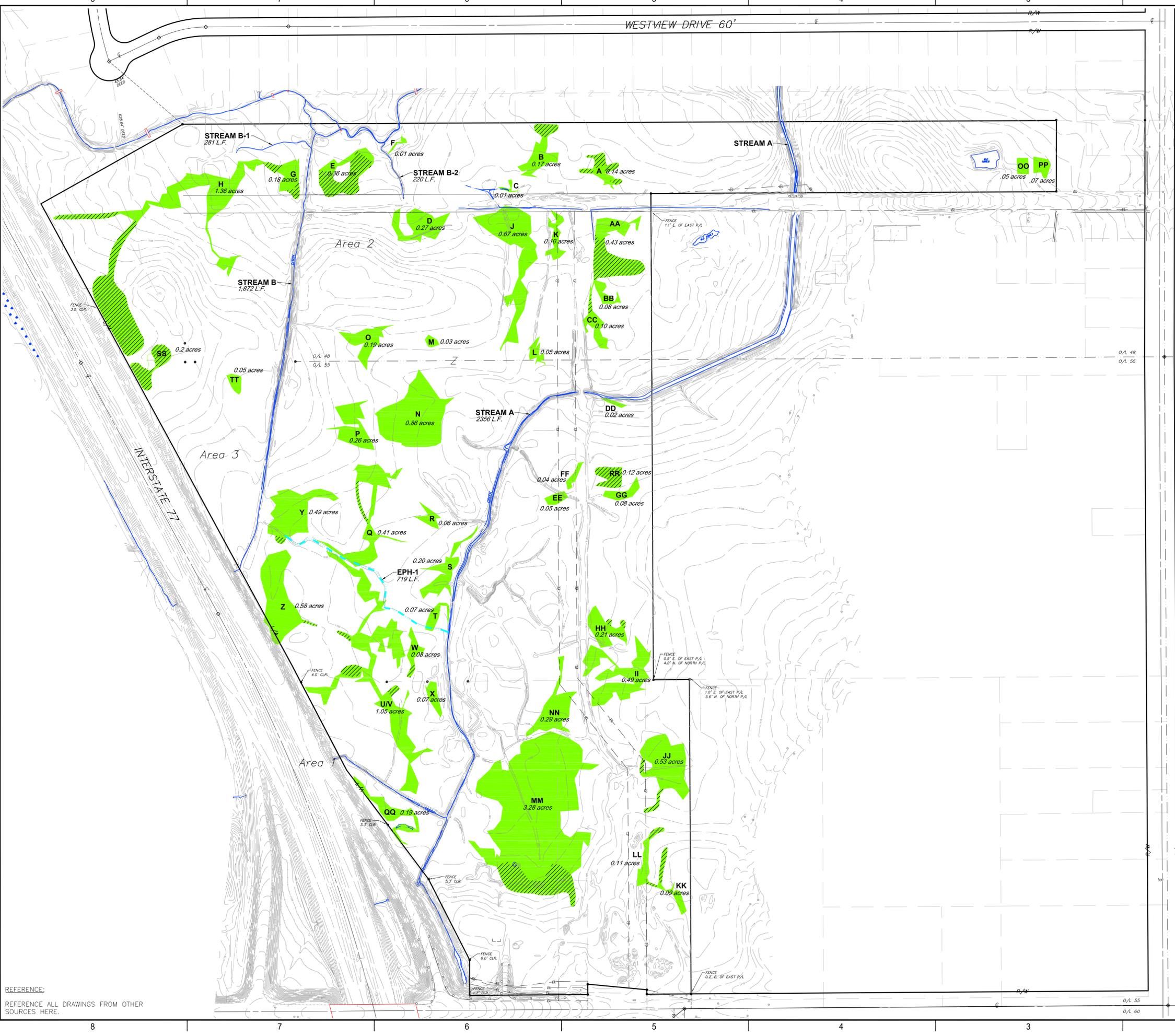
↑
NORTH


Shaw[™]
Shaw Environmental & Infrastructure, Inc.

OFFICE NUMBER
Cincinnati, OH

DRAWING NUMBER
2006 28-04

M. Na.jar - C:\CAD Projects\Acad 2006\2006 28\2006 28-04.dwg - Monday, 10/19/09 - 11:40 AM



LEGEND:
 ORIGINAL WETLAND DELINEATION (ACRES)
 UPDATED WETLAND DELINEATION (SEPTEMBER 2009) (ACRES)
MM WETLAND ID
 TOPOGRAPHIC CONTOUR
 EPHEMERAL STREAM



REV	DESCRIPTION / ISSUE	DATE	APPROVED

DESIGNED BY: MW	THE DALAD GROUP INDEPENDENCE, OHIO			
DRAWN BY: MSN	FIGURE 5 WETLAND AND STREAM LOCATIONS J. HARVEY CROW PARCEL BRECKSVILLE, CUYAHOGA COUNTY, OHIO			
CHECKED BY: SW				
APPROVED BY: MW	DATE: 10/2/09	SCALE: AS SHOWN	DRAWING NO. 2006 28-04	FIGURE 5

REFERENCE:
REFERENCE ALL DRAWINGS FROM OTHER SOURCES HERE.

APPENDIX B

TABLES

Table 1. Soils Mapped within the Site.

Map Symbol	Soil Series & Subgroup	Drainage Class	Hydric/ Non-Hydric
MgA	Mahoning silt loam (0-2% slopes)	Somewhat Poorly	Hydric Inclusions
MgB	Mahoning silt loam (2-6% slopes)	Somewhat Poorly	Non Hydric
Ua	Udorthents	Varies	Varies

From Cuyahoga County Soil Survey, Sheet 61

Table 2. Plant Communities Present within the Site.

Plant Community	Stratum	Dominant Plants	Latin Name
Forested Wetland	Tree	Red Maple	<i>Acer rubrum</i>
		Pin Oak	<i>Quercus palustris</i>
		American Elm	<i>Ulmus Americana</i>
		American Hornbeam	<i>Carpinus caroliniana</i>
		Green Ash	<i>Fraxinus pennsylvanica</i>
		Glossy Buckthorn	<i>Rhamnus frangula</i>
	Herb	Arrowwood	<i>Viburnum dentatum</i>
		Northern Spicebush	<i>Lindera benzoin</i>
		Poison Ivy	<i>Toxicodendron radicans</i>
		Bearded Sedge	<i>Carex comosa</i>
		Tussock Sedge	<i>Carex stricta</i>
		Sensitive Fern	<i>Onoclea sensibilis</i>
		Fowl Bluegrass	<i>Poa palustris</i>
		Soft Rush	<i>Juncus effusus</i>
Creeping Jennie		<i>Lysimachia nummularia</i>	
Spotted Touch Me Not		<i>Impatiens capensis</i>	
Swamp Jack in the Pulpit	<i>Arisaema triphyllum</i>		
Wetland Scrub-Shrub	Tree	Red Maple	<i>Acer rubrum</i>
		Glossy Buckthorn	<i>Rhamnus frangula</i>
	Herb	Arrowwood	<i>Viburnum dentatum</i>
		Fowl Bluegrass	<i>Poa palustris</i>
		Tussock Sedge	<i>Carex stricta</i>
		Creeping Jennie	<i>Lysimachia nummularia</i>
		Spotted Touch Me Not	<i>Impatiens capensis</i>
		Sensitive Fern	<i>Onoclea sensibilis</i>
		Soft Rush	<i>Juncus effusus</i>
		Bearded Sedge	<i>Carex comosa</i>
Blunt Spikerush	<i>Eleocharis obtuse</i>		
Goldenrod	<i>Solidago sp.</i>		
Forested Upland	Tree	Northern Red Oak	<i>Quercus rubra</i>
		American Beech	<i>Fagus grandifolia</i>
		Red Maple	<i>Acer rubrum</i>
		Pin Oak	<i>Quercus palustris</i>
		American Elm	<i>Ulmus Americana</i>
		Black Cherry	<i>Prunus serotina</i>
		Tulip Tree	<i>Liriodendron tulipifera</i>
	Sapling/Shrub	Glossy Buckthorn	<i>Rhamnus frangula</i>
		Multiflora Rose	<i>Rosa multiflora</i>
	Herb	Kentucky Bluegrass	<i>Poa pratensis</i>
		Virginia Strawberry	<i>Fragaria virginiana</i>
		Trout Lily	<i>Erythronium americanum</i>
		Common Cinquefoil	<i>Potentilla simplex</i>
Christmas Fern		<i>Polystichum acrostichoides</i>	
Mayapple	<i>Podophyllum peltatum</i>		

Plant Community	Stratum	Dominant Plants	Latin Name
Emergent Marsh	Herb	Narrow Leaf Cattail	<i>Typha augustifolia</i>
		Fowl Bluegrass	<i>Poa palustris</i>
		Glossy Buckthorn	<i>Rhamnus frangula</i>
		Tussock Sedge	<i>Carex stricta</i>
		Bearded Sedge	<i>Phragmites australis</i>
		Great Water Dock	<i>Rumex orbiculatus</i>
Wet Meadow	Herb	Glossy Buckthorn	<i>Rhamnus frangula</i>
		Soft Rush	<i>Toxicodendron radicans</i>
		Bearded Sedge	<i>Phragmites australis</i>
		Fowl Bluegrass	<i>Poa palustris</i>
		Tussock Sedge	<i>Carex stricta</i>
		Sensitive Fern	<i>Onoclea sensibilis</i>
Successional Old Field	Herb	Kentucky Bluegrass	<i>Poa pratensis</i>
		Smooth Brome grass	<i>Bromus inermis</i>
		Dandelion	<i>Taraxacum officinale</i>
		Queen Anne's Lace	<i>Daucus carota</i>
		Virginia Strawberry	<i>Fragaria virginiana</i>
		Tall Goldenrod	<i>Solidago altissima</i>
		Common Cinquefoil	<i>Potentilla simplex</i>
		Rabbit Foot Clover	<i>Trifolium arvense</i>
		Common Plantain	<i>Plantago major</i>
		Teasel	<i>Dispacus sylvestris</i>
		Allegheny Blackberry	<i>Rubus allegheniensis</i>
Maintained Lawn	Herb	Kentucky Bluegrass	<i>Poa pratensis</i>
		Common Plantain	<i>Plantago major</i>
		Dandelion	<i>Taraxacum officinale</i>

Table 3. Wetlands Delineated within the Site.

Wetland ID	Plant Community	Original Acreage (May 2000)	Additional Acreage (April 2006)	Total Area (Acres)
A	Forested Wetland	0.05	0.09	0.14
B	Forested Wetland	0.16	0.01	0.17
C	Scrub-Shrub	0.01	--	0.01
D	Forested Wetland	0.26	--	0.26
E	Forested Wetland	0.08	0.28	0.36
F	Forested Wetland	0.01	--	0.01
G	Forested Wetland	0.12	0.06	0.18
H	Forested Wetland	0.36	1.00	1.36
J	Forested Wetland	0.63	--	0.63
K	Wet Meadow	0.10	--	0.10
L	Forested Wetland	0.05	--	0.05
M	Forested Wetland	0.03	--	0.03
N	Forested Wetland	0.83	--	0.83
O	Forested Wetland	0.18	--	0.18
P	Forested Wetland	0.26	--	0.26
Q	Forested Wetland	0.37	0.04	0.41
R	Forested Wetland	0.06	--	0.06
S	Forested Wetland	0.19	--	0.19
T	Forested Wetland	0.07	--	0.07
U/V	Forested Wetland/Wet Meadow	0.83	0.22	1.05
W	Forested Wetland	0.07	0.01	0.08
X	Forested Wetland	0.00	0.07	0.07
Y	Forested Wetland	0.20	0.29	0.49
Z	Forested Wetland	0.03	0.55	0.58
AA	Forested Wetland	0.13	0.30	0.43
BB	Forested Wetland	0.06	0.02	0.08
CC	Forested Wetland	0.10	--	0.10
DD	Forested Wetland	0.02	--	0.02
EE	Forested Wetland	0.05	--	0.05
FF	Forested Wetland	0.03	--	0.03
GG	Wet Meadow	0.08	--	0.08
HH	Forested Wetland/Wet Meadow	0.18	0.03	0.21
II	Forested Wetland/Wet Meadow	0.47	--	0.47
JJ	Forested Wetland/Wet Meadow	0.48	0.05	0.53
KK	Forested Wetland	0.05	0.04	0.09
LL	Forested Wetland/Emergent Marsh	0.08	0.03	0.11
MM	Forested Wetland/Wet Meadow	2.76	0.52	3.28
NN	Forested Wetland	0.28	--	0.28
OO	Scrub-shrub	0.05	--	0.05
PP	Wet Meadow	0.06	--	0.06
QQ	Forested Wetland	0.11	0.08	0.19
RR	Forested Wetland	--	0.12	0.12
SS	Forested Wetland	--	0.20	0.20
TT	Forested Wetland	--	0.05	0.05
	TOTAL	9.94	4.06	14.00

APPENDIX C

DATA SHEETS

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Rick (D. Lachina & Huttnag DTL)</u>	Date: <u>05/01/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Walden</u> Transect ID: <u>T1</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Spartina frangula</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Poa sp</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 3/3 = 100%

Remarks: Upland forest

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>718</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	
Remarks:	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (ML, GAH, DTL)</u>	Date: <u>5/1/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland A</u> Transect ID: <u>T1</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Solidago rugosa</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/4 = 100%

Remarks: Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>10</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (ODJ, GAN, DJL)</u>	Date: <u>5/1/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland B</u> Transect ID: <u>T2</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Prunus serotina</u>	<u>H</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Erythronium americanum</u>	<u>H</u>	<u>UPL</u>	10. _____	_____	_____
3. <u>Rhamnus fraxinifolia</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Prunus serotina</u>	<u>T</u>	<u>FACU</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/6 = 67%

Remarks: Upland forest

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: Wetland B

Transect ID: T2

Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqua (fs)</u>		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	A	2.5y 5/2	10.1R 4/8	few / prominent	silty clay loam
8-18	B	2.5y 4/3	7.5yR 5/8	common / prominent	silty clay
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Sample Point within a wetland? ¹ Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Hydric Soils Present?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Remarks:			

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/1/00</u> County: <u>Cumhaca</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland B</u> Transect ID: <u>TR</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9.		
2. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	10.		
3. <u>Rhamnus fraxinifolia</u>	<u>H</u>	<u>FAC</u>	11.		
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	12.		
5. <u>Ulmus americanum</u>	<u>T</u>	<u>FACW</u>	13.		
6. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 = 100%

Remarks: Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

Community ID: Wetland B
 Transect ID: T2
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8	A	2.5y 5/2	7.5yr 5/8	many / prominent	silty clay loam
8-18	B	2.5y 6/1	7.5yr 6/8	many / prominent	silty clay
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Beak (DDC, GAH, DJL)</u>	Date: <u>5/1/03</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland C</u> Transect ID: <u>T3</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Daucus carota</u>	<u>H</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Fragaria virginiana</u>	<u>H</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Solidago affinis</u>	<u>H</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Potentilla simplex</u>	<u>H</u>	<u>FACU</u>	12. _____	_____	_____
5. <u>Trifolium arvense</u>	<u>H</u>	<u>FACU</u>	13. _____	_____	_____
6. <u>Poa pratensis</u>	<u>H</u>	<u>FACU</u>	14. _____	_____	_____
7. <u>Rubus allegheniensis</u>	<u>SH</u>	<u>FACU</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0/7 = 0%

Remarks: S.O.F.

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: Wetland C
 Transect ID: T3
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (2-6%)</u>		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-1	A	7.5YR 2.5/1	—	—	silt loam
1-12	B	10YR 3/3	7.5YR 6/8	many / prominent	silt clay
12-18		10YR 5/1	7.5YR 5/2	many / prominent	silt clay
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this Sample Point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Hydric Soils Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Creek Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/1/01</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland</u> Transect ID: <u>T3</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Eleocharis obtusa</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Solidago sp.</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Rhynchos frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 = 100%

Remarks: Scrub Shrub

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

Community ID: Wetland C
 Transect ID: 73
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (26%)</u>		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-5	A	10YR 5/1	7.5YR 5/8	common/prominent	silty clay
5-18	B	2.5Y 7/1	10YR 5/8 5Y 4/1	few/prominent few/prominent	silty clay
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Remarks:			

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>Jr. Harvey Cross</u> Investigator: <u>Beak (OD, GAH, DJL)</u>	Date: <u>5/1/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland B</u> Transect ID: <u>Typical to</u> Plot ID: <u>Wetland B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Lysimachia nummularia</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Poa trivialis</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland (typical to Wetland B)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>1</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, OSL, GAT)</u>	Date: <u>05/01/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland E</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Corox stricta</u>	<u>H</u>	<u>OBL</u>	9. <u>Lindera benzoin</u>	<u>Sh</u>	<u>FACW</u>
2. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Arisaema triophyllum</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Ranunculus septentrionalis</u>	<u>H</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>S</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 9/9 = 100%

Remarks: Typical of wetland B
Forestal Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>N/A</u> (in.) Depth to Saturated Soil: <u>surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/1/09</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland F</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Arisaema tripartitum</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Lindera benzoin</u>	<u>Sh</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Quercus rubra</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 5/6 = 83%

Remarks: Forested Wetland
typical of Wetland B

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>2</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Park</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, GAI, DJL)</u>	Date: <u>05/1/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland G</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>OBL</u>	9. <u>Cyperus</u>	<u>T</u>	<u>FAC</u>
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Ornithoglossum</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Arisaema tripartitum</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Sagittaria arifolia</u>	<u>S</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Asarum canadense</u>	<u>S</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus ssp.</u>	<u>SM</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Adiantum</u>	<u>T</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 9/9 = 100%

Remarks: Forested Wetland (typical of Wetland B)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>N/A</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Benkt DDL, GAN, DJL</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland H</u> Transect ID: <u>T4</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Podophyllum peltatum</u>	<u>H</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Polystichum acrostichoides</u>	<u>H</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Erythronium americanum</u>	<u>H</u>	<u>UPL</u>	11. _____	_____	_____
4. <u>Carpinus caroliniana</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 2/5 = 40%

Remarks: Small patch of upland forest

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in the Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required):</p> <p><input type="checkbox"/> Oxidized Root Channels in upper 12 inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in.)</p> <p>Depth to Free Water in Pit: <u>>18</u> (in.)</p> <p>Depth to Saturated Soil: <u>10</u> (in.)</p>	
<p>Remarks: <u>Rain event (1.00 in) night before</u></p>	

Community ID: Wetlands 4
 Transect ID: T4
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No <input type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>10YR 3/3</u>	<u>—</u>	<u>—</u>	<u>silty clay</u>
<u>7-18</u>	<u>B</u>	<u>2.5Y 6/4</u>	<u>10YR 5/8</u>	<u>many fragments</u>	<u>silty clay</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Hydric Soils Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DTL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland H</u> Transect ID: <u>T4</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. <u>Carpinus caroliniana</u>	<u>T</u>	<u>FAC</u>
2. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Arisaema triphyllum</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Phragmites australis</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Fagus grandifolia</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) _____

8/9 = 89%

Remarks:

Forested Wetland

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands <p>Secondary Indicators (2 or more required):</p> <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
<p>Field Observations:</p> Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	<p>Remarks: <u>0.95 inches of rain fell the night before</u></p>

Community ID: Wetland H
 Transect ID: 74
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-7	A	10YR 5/5	—	—	silty clay
7-18	B	2.5Y 6/1	10YR 5/8	mangan/presence	silty clay
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Remarks:			

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>Jr. Harvey Crow</u> Investigator: <u>Benk (DL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland J</u> Transect ID: <u>T5</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Potentilla simplex</u>	<u>H</u>	<u>FACU</u>	9. _____	_____	_____
2. <u>Liriodendron tulipifera</u>	<u>H</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Rhamnus fraxinifolia</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Prunus serotina</u>	<u>Sap</u>	<u>FACU</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 2/5 = 40%

Remarks: Upland forest (small patch)

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: Wethers
 Transect ID: TS
 Plot ID: PI

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochroqualfs</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-8</u>	<u>A</u>	<u>2.5y 4/2</u>	<u>—</u>	<u>—</u>	<u>silt loam</u>
<u>8-18</u>	<u>B</u>	<u>2.5y 5/4</u>	<u>10yr 5/8</u> <u>10yr 7/8</u>	<u>very prominent</u> <u>very prominent</u>	<u>silty clay loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input checked="" type="radio"/> No	Is this Sample Point within a wetland? ¹ Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes	<input checked="" type="radio"/> No	
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	
Remarks:			

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DOL, GAH, DIL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.) 	Community ID: <u>Wetland J</u> Transect ID: <u>T5</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>
2. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Onoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Acer rubrum</u>	<u>Sp</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 9/9 = 100%

Remarks: Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (MPL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland K</u> Transect ID: <u>T6</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Plantago major</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Poa pratensis</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Trifolium arvense</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Potentilla simplex</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Fragaria virginiana</u>	<u>H</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 1/6 = 17%

Remarks: S.O.F.

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: Wetland K
 Transect ID: T6
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>2.5y 4/3</u>	<u>-</u>	<u>-</u>	<u>silty clay loam</u>
<u>7-18</u>	<u>B</u>	<u>2.5y 3/3</u>	<u>10yp 4/6</u>	<u>few/distant</u>	<u>silty clay loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions				
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils				
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils				
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List				
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List				
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)				
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this Sample Point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Hydric Soils Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Flamen Cross</u> Investigator: <u>Benk (DDL, GAH, DJL)</u>	Date: <u>5/2/80</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? (If needed explain on reverse.) Yes <input type="radio"/> No <input checked="" type="radio"/>	Community ID: <u>Wetland K</u> Transect ID: <u>T6</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus effusus</u>	<u>H</u>	<u>FAEW</u>	9. _____	_____	_____
2. <u>Rhamnus frumica</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Rhamnus frumula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Onoclea sensibilis</u>	<u>H</u>	<u>FAEW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 = 100%

Remarks: Wet Meadow

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>2</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

Community ID: Wetland X
 Transect ID: T6
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochroqva Hs</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>2.5y 4/3</u>	<u>10yR 5/8</u>	<u>few/distant</u>	<u>silty clay loam</u>
<u>6-18</u>	<u>B</u>	<u>2.5y 6/2</u>	<u>10yR 6/8</u>	<u>many/prominent</u>	<u>silty clay</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Gleyed or <u>Low-Chroma</u> Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Corner Parcel</u> Applicant/Owner: <u>J. Harvey Corner</u> Investigator: <u>Beak (GRI, DDL, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland L</u> Transect ID: _____ Plot ID: _____ <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Rhynchos. frangula</u>	<u>H</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Aca. rubra</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland
Typical of Wetland B

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>2</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DBL, GAN, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland M</u> Transect ID: _____ Plot ID: <u>-</u> <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carex comosa</u>	<u>H</u>	<u>DBL</u>	12. _____	_____	_____
5. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Lindera benzoin</u>	<u>H</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 8/8 = 100%

Remarks: Forested Wetland
Typical of Wetland B

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (ODL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland N</u> Transect ID: _____ Plot ID: _____ <div style="text-align: center; margin-top: 5px;"><u>Typical</u></div>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. <u>Carex canadensis</u>	<u>H</u>	<u>OBL</u>
2. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Iris palustris</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Rhynchos franseria</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 9/9 = 100%

Remarks: Forested Wetland Typical to Wetland B

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>8</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, FACW, FAC)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland 0</u> Transect ID: _____ Plot ID: _____ <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Onoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	9. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Viburnum dentatum</u>	<u>H</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Lindera benzoin</u>	<u>Sh</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 9/9 = 100%

Remarks: Forested Wetland
Typical to Wetland J

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>4</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DBL, GAH, DTL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland P</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>DBL</u>	9. _____	_____	_____
2. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Rhamnus fraxinifolia</u>	<u>H</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Rhamnus fraxinifolia</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Lindera benzoin</u>	<u>Sh</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 8/8 = 100%

Remarks: Typical to Wetland J
Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DPL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed, explain on reverse.)	Community ID: <u>Wetland Q</u> Transect ID: <u>T7</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Podocarpus naltatum</u>	<u>H</u>	<u>UPL</u>	9. _____	_____	_____
2. <u>Prunus serotina</u>	<u>Sap</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Quercus vespa</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Cornus caroliniana</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 2/5 = 40%

Remarks: Upland forest

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>18</u> (in.) Depth to Saturated Soil: <u>17</u> (in.)	Remarks:

Community ID: Wetland Q
 Transect ID: T7
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-7	A	10YR 3/2	—	—	silty loam
7-18	B	2.5Y 5/4	10YR 4/6	few/faint	silty clay loam
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is this Sample Point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Hydric Soils Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland Q</u> Transect ID: <u>T7</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Poa palustris</u>	<u>H</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Viburnum dentatum</u>	<u>Sh</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>Sap</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 = 100%

Remarks: Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>6</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

Community ID: Wetland Q
 Transect ID: T1
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR 4/2</u>	<u>7.5YR 5/8</u>	<u>common/prominent</u>	<u>silt loam</u>
<u>6-18</u>	<u>B</u>	<u>10YR 5/2</u>	<u>7.5YR 5/8</u>	<u>many/prominent</u>	<u>silty clay loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Gleyed or <u>Low-Chroma</u> Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks: <u>oxidized root channels</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Bank (DDL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland R</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Carex crumosa</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Rhamnus frangula</u>	<u>H</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Lindera benzoin</u>	<u>Sh</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 8/8 = 100%

Remarks: Forested Wetland - Typical of wetland Q

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>4</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAK, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland S</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Rhamnus fraxinifolia</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Rhamnus fraxinifolia</u>	<u>Sh</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Carpinus caroliniana</u>	<u>T</u>	<u>FAC</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) _____

Remarks: Forested Wetland w/ a small wet meadow area (typical to Wetland K)
Typical to Wetland H

Lythrum hyssopifolium
Carex stricta Juncus effusus
Poa palustris

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>1</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Pond</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, GAH, DJL)</u>	Date: <u>5/2/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland T</u> Transect ID: _____ Plot ID: _____ <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex cornusa</u>	<u>H</u>	<u>OBL</u>	9. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>
2. <u>Carex stricta</u>	<u>H</u>	<u>DBL</u>	10. _____	_____	_____
3. <u>Lyctimachia nummularia</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Equisetum arvense</u>	<u>H</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>H</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 9/9 = 100%

Remarks: Forested Wetland typical to Wetland T w/ Wet meadows here large.

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL: GAH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Camataoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland/w</u> Transect ID: <u>TB</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Lindera benzoin</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Erythronium americanum</u>	<u>H</u>	<u>UPL</u>	10. _____	_____	_____
3. <u>Podophyllum peltatum</u>	<u>H</u>	<u>UPL</u>	11. _____	_____	_____
4. <u>Rhynchospora fragilis</u>	<u>SH</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Carpinus caroliniana</u>	<u>SH</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Urtica serotina</u>	<u>SH</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Aster palustris</u>	<u>SH</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Viola septentrionalis</u>	<u>H</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/8 = 50%

Remarks: Upland forest

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: Wetland U/V
 Transect ID: T8
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR 3/2</u>	<u>—</u>	<u>—</u>	<u>Silt Loam</u>
<u>B-13</u>	<u>B</u>	<u>2.5Y 6/3</u>	<u>10YR 4/6</u>	<u>Many / distinct</u>	<u>silty clay</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	<input type="radio"/> No	Is this Sample Point within a wetland? ¹ Yes <input type="checkbox"/> No <input type="checkbox"/>
Wetland Hydrology Present?	Yes	<input type="radio"/> No	
Hydric Soils Present?	Yes	<input type="radio"/> No	
Remarks:			

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u>	Date: <u>05/02/00</u>
Applicant/Owner: <u>J. Harvey Crow</u>	County: <u>Cuyahoga</u>
Investigator: <u>Beak (DDL, GAH, DJL)</u>	State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community ID: <u>Wetland W/V</u> Transect ID: <u>T3</u> Plot ID: <u>P2</u>
Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No	
Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	9. <u>Urtica americana</u>	<u>T</u>	<u>FACW</u>
2. <u>Oxyclea sensibilis</u>	<u>H</u>	<u>FACW</u>	10. <u>Poa polystris</u>	<u>H</u>	<u>FACW</u>
3. <u>Toxicodendron radicans</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Carex lasiocarpa</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Rhynchospora alba</u>	<u>SH</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Liriodendron tulipifera</u>	<u>SM</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Carpinus caroliniana</u>	<u>SP</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Rhus glabra</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____
Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-)			<u>10/10 = 100%</u>		
Remarks: <u>Forested Wetland / NET MEADOW</u>					

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input checked="" type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in the Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input checked="" type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required):</p> <p><input type="checkbox"/> Oxidized Root Channels in upper 12 inches</p> <p><input checked="" type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>2</u> (in.)</p> <p>Depth to Free Water in Pit: <u>Surface</u> (in.)</p> <p>Depth to Saturated Soil: <u>Surface</u> (in.)</p>	
Remarks:	

Community ID: Wetland UV
 Transect ID: T8
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-4</u>	<u>A</u>	<u>2.5Y 3/2</u>	<u>—</u>	<u>—</u>	<u>Si H Loam</u>
<u>4-13</u>	<u>B</u>	<u>2.5Y 4/2</u>	<u>10YR 5/3</u>	<u>Plains / Prominent</u>	<u>Si Hy Clay Loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DPL, GAH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland W</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>
2. <u>Oenoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	10. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>
3. <u>Impatiens capensis</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Rhamnus fruticosa</u>	<u>H</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Rhamnus fruticosa</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Carpinus cordifera</u>	<u>Sup</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Lindera benzoin</u>	<u>Sh</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC 10/10 = 100%
(excluding FAC-)

Remarks: Small Forested Wetland typical to Wetland U/V

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Benk (DDL, GPH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland X</u> Transect ID: _____ Plot ID: <u>Typical</u> _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex amosa</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Onoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Lythymachia nummularia</u>	<u>H</u>	<u>OBL</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 8/8 = 100%

Remarks: Forested Wetland typical to Wetland Q

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>10</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAI, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Rhynchospora fragilis</u>	<u>Sh</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Carolinia caroliniana</u>	<u>Sms</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Urtica americana</u>	<u>T</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) _____

Remarks: Typical to Wetland H (Forested Wetland)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated (pockets) <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>1</u> (in.) Depth to Free Water in Pit: <u>-</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (ODL, GAK, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland 2</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Onoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Lythrum salicaria (few stems)</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland (Typical to Wetland W/V)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, DBL, FACW)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland A</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 = 100%

Remarks: Wetland typical to Wetland B (Forested Wetland)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>2</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

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

Project Site: <u>Harvey Corn Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DD, DL, GAU)</u>	Date: <u>5/3/07</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland B13</u> Transect ID: _____ Plot ID: _____ <div style="text-align: right;"><u>typical</u></div>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Juncus obovatus</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Aca. rubrum</u>	<u>Sup</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Aca. rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 46 = 100%

Remarks: Forested Wetland - typical to Wetland B

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>1.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GHI, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland B</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	15. _____	_____	_____
8. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 8/8 = 100%

Remarks: Forested Wetland typical of Wetland B

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>6</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DM, GM, NJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland DD</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Onoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Viburnum dentatum</u>	<u>Sh</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 5/5 = 100%

Remarks: Forested Wetland (typical to Wetland B)
(Small patch)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>6</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (NPL, GAH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No Is the area a potential problem area? Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland EE</u> Transect ID: <u>T10</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Prunus cerasifera</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Rhamnus fraxinifolia</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Rhamnus fraxinifolia</u>	<u>Sh</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/4 = 100%

Remarks: Upland forest

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: Wetland E
 Transect ID: T10
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Acric Ochraqualfs</u>		Field Observations Confirm Mapped Type? <input checked="" type="radio"/> Yes <input type="radio"/> No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-6	A	2.5y 4/2	—	—	silt loam
6-18	B	5y 6/4	10yr 6/8	many / distinct	silty loam
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input type="radio"/> Yes <input checked="" type="radio"/> No
Wetland Hydrology Present?	Yes <input checked="" type="radio"/> No	
Hydric Soils Present?	Yes <input checked="" type="radio"/> No	
Remarks:		

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Beak (DDL, GML, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland BE</u> Transect ID: <u>T10</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Rhamnus frangula</u>	<u>H</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Populus deltoides</u>	<u>T</u>	<u>FAC</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>4</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

Community ID: Wetland EE
 Transect ID: T10
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-20%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-1	O	—	—	—	—
1-3	A	2.5y 3/2	—	—	silt loam
3-18	B	2.5y 1/2	7.5yR 5/8	many / prominent	silty clay loam
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input type="checkbox"/> Sulfidic Odor <input type="checkbox"/> Aquic Moisture Regime <input type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or <u>Low-Chroma</u> Colors		<input type="checkbox"/> Concretions <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cayahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland EE</u> Transect ID: <u>Typical</u> Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Rhynchospora furcata</u>	<u>Sh</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Rhynchospora furcata</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Populus deltoides</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland typical to Wetland EE

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks: _____	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DOL, DJL, GAH)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland GG</u> Transect ID: <u>Typical</u> Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Poa polystris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Rhynchos frutescens</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Rhynchos frutescens</u>	<u>SH</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Potamogeton amplifolius</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Phragmites australis</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 100%

Remarks: Wet Meadow typical of Wetland K

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>Saturated</u> (in.) Depth to Free Water in Pit: <u>N/A</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Beak (DBL, GMI, DJL)</u>	Date: <u>5/3/08</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No <input type="radio"/> Is the area a potential problem area? Yes <input checked="" type="radio"/> No <input type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland/HH</u> Transect ID: <u>Typical</u> Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Rhamnus frangula</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Viburnum americana</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 8/8 = 100%

Remarks: Forested Wetland typical to Wetland/U/V
WET MEDITALS

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>4</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

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

Project Site: <u>Harvey Crow Pond</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (ODL, GAH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Juncus edulis</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/6 = 100%

Remarks: Forested Wetland / (Typical to Wetland w/v)
WET MEADOW

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>Saturated</u> (in.) Depth to Free Water in Pit: <u>N/A</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DIL, GAN, DIL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland JS</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Fragaria virginiana</u>	<u>T</u>	<u>FACW</u>	13. _____	_____	_____
6. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Rhamnus frangula</u>	<u>H</u>	<u>FAC</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland (typical to Wetland Q)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beck (DBL, SAH, DJL)</u>	Date: <u>05/04/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No Is the area a potential problem area? Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland RR</u> Transect ID: <u>T11</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Dipsacus sylvestris</u>	<u>H</u>	<u>NE</u>	9. _____	_____	_____
2. <u>Ranunc. acris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Trifolium arvense</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Taraxacum officinale</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Poa pratensis</u>	<u>H</u>	<u>FACW</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 0/5 = 0%

Remarks: S. O. F.

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>7/8</u> (in.) Depth to Saturated Soil: <u>7/5</u> (in.)	Remarks: _____

Community ID: Wetland KK
 Transect ID: T11
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>A</u>	<u>10YR 3/3</u>			<u>Silty Clay loam</u>
<u>5-18</u>	<u>B₂</u>	<u>2.5Y 4/4</u>	<u>10YR 6/3</u>	<u>Common / distinct</u>	<u>Silty Clay</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions				
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils				
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils				
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List				
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List				
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)				
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is this Sample Point within a wetland? ¹ Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	
Hydric Soils Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	
Remarks:			

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey, Cow Pasture</u> Applicant/Owner: <u>J. Harvey Cow</u> Investigator: <u>Beak (DD, GAH, DJL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland KK</u> Transect ID: <u>T1</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha angustifolia</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Rhynchospora fragalis</u>	<u>Sr</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Acerulium</u>	<u>T</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/4 = 100%

Remarks: Forested Wetland / small emergent marsh

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>6</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

Community ID: Wetland KK

Transect ID: T11

Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-5</u>	<u>A</u>	<u>10YR 3/4</u>	<u>10YR 4/6</u>	<u>rare/faint</u>	<u>silt loam</u>
<u>5-18</u>	<u>B</u>	<u>5Y 5/1</u>	<u>10YR 4/6</u>	<u>common/prominent</u>	<u>silt clay loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Cow Parcel</u> Applicant/Owner: <u>J. Harvey Cow</u> Investigator: <u>Beak (DDL, GAK, DJL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland</u> Transect ID: _____ Plot ID: <u>typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Typha angustifolia</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Rubus cuneifolius</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Carex comosa</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Rhamnus frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland w/ small emergent marsh (typical to Wetland KK)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>5</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Beak (DDL, GAT, DJL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland MA</u> Transect ID: <u>T12</u> Plot ID: <u>P1</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa annua</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Vaccinium</u>	<u>H</u>	_____	10. _____	_____	_____
3. <u>Rosa multiflora</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Rhamnus fruticosa</u>	<u>Sh</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Crataegus sp.</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Fraxinus pennsylvanica</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/6 = 67%

Remarks: Small patch of upland forest

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks: _____

Community ID: Wetland MM
 Transect ID: T12
 Plot ID: P1

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-10</u>	<u>A</u>	<u>10YR 3/2</u>	<u>—</u>	<u>—</u>	<u>silt loam</u>
<u>10-18</u>	<u>B</u>	<u>2.5Y 4/4</u>	<u>10YR 3/6</u> <u>10YR 6/8</u>	<u>common / faint</u> <u>many / distinct</u>	<u>silt clay loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Is this Sample Point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Hydric Soils Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks:		

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, FACW, OBL)</u>	Date: <u>5/4/07</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland</u> Transect ID: <u>T12</u> Plot ID: <u>P2</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Carex rostrata</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Rhynchospora frumosa</u>	<u>Sh</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Carpinus caroliniana</u>	<u>Sap</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Andropogon furcatus</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Forested Wetland

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>Saturated</u> (in.) Depth to Free Water in Pit: <u>11</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks:

Community ID: Wetland MM
 Transect ID: T12
 Plot ID: P2

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-10</u>	<u>A</u>	<u>10YR 3/2</u>	<u>—</u>	<u>—</u>	<u>silty clay loam</u>
<u>10-18</u>	<u>B</u>	<u>5Y 5/2</u>	<u>2.5YR 5/2</u>	<u>minor / prominent</u>	<u>silty clay</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92.

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Ben (ML, GAH, DJL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>Wetland Q</u> Transect ID: _____ Plot ID: <u>Typical</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Oenoclea sensibilis</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Phragmites fusca</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. <u>Utricularia intermedia</u>	<u>T</u>	<u>FACW</u>	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) _____

8/8 = 100%

Remarks: Fruited Wetland (typical to Wetland Q)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>1</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DNL, GAH, DBL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>OHIO</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>00</u> Transect ID: _____ Plot ID: <u>Typical of Wetland B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Rhus glabra</u>	<u>S</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Lysimachia nummularia</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC- (excluding FAC-) 3/3 = 100%

Remarks: Scrub/shrub wetland w/ open water ponding. Historically dredged to form deep depression. Remnants of side cast are evident. Areas along the wetland fringe and the surrounding area have recently been cleared of trees.

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>18</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (OBL, GAH, DJL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>PP</u> Transect ID: <u>Typ. of B</u> Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Rhamnus Scoparia</u>	<u>Sh</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Sarcocolla ellipsoides</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Lysimachia nummularia</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 4/4 = 100%

Remarks: Same as wetland 00. (Scrub-Shrub)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>3</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	
Remarks:	

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Beakl OBL, GAN, DJL</u>	Date: <u>5/14/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland 00</u> Transect ID: <u>Typical</u> Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex sp.</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Toxicaria radicans</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Rhamnus frumosa</u>	<u>Sh</u>	<u>FAC</u>	12. _____	_____	_____
5. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Quercus bicolor</u>	<u>T</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Typical to Wetland w/v (Forested Wetland)

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>1</u> (in.) Depth to Free Water in Pit: <u>Surface</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: _____

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/1/2000</u> County: <u>CUYAHOGA</u> State: <u>OHIO</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="radio"/> No Is the area a potential problem area? Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: <u>RI</u> Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Quercus palustris</u>	<u>T</u>	<u>FACW</u>	10. _____	_____	_____
3. <u>Rhamnus C. anglica</u>	<u>S</u>	<u>FAC</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) _____

Remarks: ^{small} Depression at terminus of shallow swale w/ w (A. rubrum) mesic forest. There are scattered depression w/ water stained leaves, but soils are non-hydric.

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input checked="" type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	
Remarks: very few drainage patterns w/out depression.	

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

Project Site: <u>Harvey Crow Parcel</u>	Date: <u>05/02/00</u>						
Applicant/Owner: <u>J. Harvey Crow</u>	County: <u>Cecil, MD</u>						
Investigator: <u>Beck (DDL, GAT, DJL)</u>	State: <u>MD</u>						
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential problem area? (If needed explain on reverse.)	<table style="width: 100%;"> <tr> <td style="text-align: center;">Yes <input checked="" type="radio"/></td> <td style="text-align: center;">No <input type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> <tr> <td style="text-align: center;">Yes <input type="radio"/></td> <td style="text-align: center;">No <input checked="" type="radio"/></td> </tr> </table>	Yes <input checked="" type="radio"/>	No <input type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Yes <input type="radio"/>	No <input checked="" type="radio"/>
Yes <input checked="" type="radio"/>	No <input type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
Yes <input type="radio"/>	No <input checked="" type="radio"/>						
	Community ID: _____ Transect ID: _____ Plot ID: <u>R-2</u>						

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Poa pratensis</u>	<u>H</u>	<u>FACU</u>	9. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>
2. <u>Fragaria virginiana</u>	<u>H</u>	<u>FACU</u>	10. <u>Lindera benzoin</u>	<u>SH</u>	<u>FACU</u>
3. <u>Potentilla simplex</u>	<u>H</u>	<u>FACU</u>	11. _____		
4. <u>Rosa multiflora</u>	<u>H</u>	<u>FACU</u>	12. _____		
5. <u>Poa palustris</u>	<u>H</u>	<u>FACW</u>	13. _____		
6. <u>Rhamnus frangula</u>	<u>SH</u>	<u>FAC</u>	14. _____		
7. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	15. _____		
8. <u>Quercus palustris</u>	<u>T</u>	<u>FACU</u>	16. _____		

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 6/10 = 60%

Remarks: Upland forest

HYDROLOGY

<p>Recorded Data (Describe in Remarks):</p> <p><input type="checkbox"/> Stream, Lake, or Tide Gauge</p> <p><input type="checkbox"/> Aerial Photographs</p> <p><input type="checkbox"/> Other</p> <p><input checked="" type="checkbox"/> No Recorded Data Available</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input type="checkbox"/> Inundated</p> <p><input type="checkbox"/> Saturated in the Upper 12 Inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators (2 or more required):</p> <p><input type="checkbox"/> Oxidized Root Channels in upper 12 inches</p> <p><input type="checkbox"/> Water-Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Other (explain in Remarks)</p>
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (in.)</p> <p>Depth to Free Water in Pit: <u>18</u> (in.)</p> <p>Depth to Saturated Soil: <u>17</u> (in.)</p>	
<p>Remarks: <u>Surface saturated due to significant rain event (0.95 in.) on May 1, 2000.</u></p>	

Community ID: _____

Transect ID: _____

Plot ID: R-2

SOILS

Map Unit Name (Series and Phase): <u>Mahanna (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes <input checked="" type="radio"/> No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6</u>	<u>A</u>	<u>10YR 3/2</u>	<u>—</u>	<u>—</u>	<u>Silty Clay Loam</u>
<u>6-13</u>	<u>B</u>	<u>2.5Y 5/3</u>	<u>2.5Y 6/3</u>	<u>Common/Prominent</u>	<u>Silt Loam</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol	<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Gleyed or Low-Chroma Colors
<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is this Sample Point within a wetland? ¹ Yes <input checked="" type="radio"/> No
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No	
Hydric Soils Present? Yes <input checked="" type="radio"/> No	
Remarks:	

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Crow Parcel</u> Applicant/Owner: <u>J. Harvey Crow</u> Investigator: <u>Beak (DOL, GAH, DJL)</u>	Date: <u>5/3/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? <input type="radio"/> Yes <input checked="" type="radio"/> No Is the area a potential problem area? <input type="radio"/> Yes <input checked="" type="radio"/> No (If needed explain on reverse.)	Community ID: _____ Transect ID: _____ Plot ID: <u>R-3</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Carex stricta</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Carex sp.</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Prunus serotina</u>	<u>H</u>	<u>FACW</u>	11. _____	_____	_____
4. <u>Juncus effusus</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. <u>Rhamnus. frangula</u>	<u>Sh</u>	<u>FAC</u>	13. _____	_____	_____
6. <u>Acer rubrum</u>	<u>T</u>	<u>FAC</u>	14. _____	_____	_____
7. <u>Ulmus americana</u>	<u>T</u>	<u>FACW</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 7/7 = 100%

Remarks: Upland forest

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>Surface</u> (in.)	Remarks: <u>Rain event 5/1/00 (0.95in)</u>

Community ID: _____

Transect ID: _____

Plot ID: R-3

SOILS

Map Unit Name (Series and Phase): Mahoning (0-2%)

Drainage Class: SWP

Taxonomy (Subgroup): Aeric Ochraqualfs

Field Observations
Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-3	A	2.5y 7/2	10y 2 3/6	few / distinct	silt loam
3-18	B	5y 6/4	10y 2 9/8	common / distinct	silty clay loam

Hydric Soil Indicators:

- | | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No

Wetland Hydrology Present? Yes No

Hydric Soils Present? Yes No

Is this Sample Point within a wetland? Yes No

Remarks: Ponded water due to rain event (0.95 in) on May 1, 2000

Approved by HQUSACE 3/92

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

Project Site: <u>Harvey Cross Parcel</u> Applicant/Owner: <u>J. Harvey Cross</u> Investigator: <u>Beak (DDL, GAH, DJL)</u>	Date: <u>5/4/00</u> County: <u>Cuyahoga</u> State: <u>Ohio</u>
Do Normal Circumstances exist on the site? <input checked="" type="radio"/> Yes <input type="radio"/> No Is the site significantly disturbed (Atypical Situation)? Yes <input type="radio"/> No <input checked="" type="radio"/> Is the area a potential problem area? Yes <input type="radio"/> No <input checked="" type="radio"/> (If needed explain on reverse.)	Community ID: <u>Wetland</u> Transect ID: Plot ID: <u>R-4</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Bromus inermis</u>	<u>H</u>	<u>OPL</u>	9. _____	_____	_____
2. <u>Dipsacus sylvestris</u>	<u>H</u>	<u>NI</u>	10. _____	_____	_____
3. <u>Daucus carota</u>	<u>H</u>	<u>FACU</u>	11. _____	_____	_____
4. <u>Trifolium arvense</u>	<u>H</u>	<u>FACU</u>	12. _____	_____	_____
5. <u>Taraxacum officinale</u>	<u>H</u>	<u>FACU</u>	13. _____	_____	_____
6. <u>Phragmites australis</u>	<u>H</u>	<u>FACW</u>	14. _____	_____	_____
7. <u>Solidago altissima</u>	<u>H</u>	<u>FACU</u>	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (excluding FAC-) 1/7 = 14%

Remarks: S.O.F.

HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in the Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>>18</u> (in.) Depth to Saturated Soil: <u>>18</u> (in.)	Remarks:

Community ID: _____

Transect ID: _____

Plot ID: R-4

SOILS

Map Unit Name (Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>SWP</u>			
Taxonomy (Subgroup): <u>Aeric Ochrosols</u>		Field Observations Confirm Mapped Type? Yes <input type="radio"/> No <input checked="" type="radio"/>			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-7</u>	<u>A</u>	<u>10y²/3</u>	<u>—</u>	<u>—</u>	<u>silty clay loam</u>
<u>7-14</u>	<u>B</u>	<u>2.5y⁴/3</u>	<u>—</u>	<u>—</u>	<u>silty clay (fill)</u>
<u>14-18</u>		<u>2.5y⁴/4</u>	<u>2.5y⁴/6</u>	<u>few/faint</u>	<u>—</u>
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: <u>potential fill area (S.O.F.)</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	Is this Sample Point within a wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Wetland Hydrology Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	
Hydric Soils Present?	Yes <input type="radio"/>	No <input checked="" type="radio"/>	
Remarks:			

Approved by HQUSACE 3/92

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

Project/Site: J. Harvey Crow Applicant/Owner: The Dalad Group Investigator(s): MJW	Date: 4/27/2006 County: Cuyahoga State: OH
Do normal circumstances exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the site significantly disturbed (Atypical?) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential problem area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (if needed, explain on reverse.)	Community ID: Wetland RR Plot ID: RR-1

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:	Dominant Plant Species:	Stratum:	Indicator:
1. <i>Acer rubrum</i> (red maple)	S/T	FAC	11.		
2. <i>Quercus palustris</i> (pin oak)	T	FACW	12.		
3. <i>Rhamnus frangula</i> (glossy buckthorn)	S	FAC	13.		
4. <i>Carex stricta</i> (uplight sedge)	H	OBL	14.		
5.			15.		
6.			16.		
7.			17.		
8.			18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW or FAC (and excluding FAC-) = 100%

Remarks:

New forested wetland - north of wetland GG

HYDROLOGY

_____ Recorded Data (Describe in Remarks) _____ Stream, Lake, or Tide Gauge _____ Aerial Photographs <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in upper 12 inches _____ Water Marks _____ Drift Lines _____ Sediment Deposits _____ Drainage Patterns in Wetlands Secondary Indicators: _____ Oxidized Root Channels in Upper 12 Inches <input checked="" type="checkbox"/> Water Stained Leaves _____ Local Soil Survey Data _____ FAC-Neutral Test _____ Others (Explain in Remarks)
Field Observations: Depth of Surface Water: _____ 0 _____ (inches) Depth to Free Water in Pit: _____ surface _____ (inches) Depth to Saturated Soil: _____ surface _____ (inches)	
Remarks:	

Project/Site: J. Harvey Crow
 Site/Area ID: Wetland RR-1

SOILS

Map Unit Name:		<u>Mahoning (0-2%)</u>		Drainage Class: <u>Somewhat poorly drained</u>	
(Series and Phase):		<u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type?	
(Taxonomy Subgroup):				Yes _____ No <u>X</u>	
Profile Description:					
Depth (inches):	Horizon:	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle (Abundance/Size):	Texture, Concretions, Structure:
0 - 5	A	10 YR 3/4	---	---	silt loam
5 - 14	B	10 YR 5/1	10 YR 4/6	common/medium	silty clay loam
Hydric Soil Indicators:					
<input type="checkbox"/>	Histosol	<input type="checkbox"/>		<input type="checkbox"/>	Concretions
<input type="checkbox"/>	Histic Epipedon	<input type="checkbox"/>		<input type="checkbox"/>	High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/>	Sulfidic Odor	<input type="checkbox"/>		<input type="checkbox"/>	Organic Streaking in Sandy Soil
<input type="checkbox"/>	Aquic Moisture Regimes	<input type="checkbox"/>		<input type="checkbox"/>	Listed on Local Hydric Soils List
<input type="checkbox"/>	Reducing Conditions	<input type="checkbox"/>		<input type="checkbox"/>	Listed on National Hydric Soils List
<input checked="" type="checkbox"/>	Gleyed or Low Chroma Colors	<input type="checkbox"/>		<input type="checkbox"/>	Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is this Sampling Point Within a Wetland? Yes <u>X</u> No _____
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Hydric Soils Present?	Yes <u>X</u>	No _____	
Remarks:			
Wetland RR			

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

Project/Site: J. Harvey Crow Applicant/Owner: The Dalad Group Investigator(s): MJW	Date: 4/27/2006 County: Cuyahoga State: OH
Do normal circumstances exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the site significantly disturbed (Atypical?) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential problem area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (if needed, explain on reverse.)	Community ID: Wetland RR Plot ID: RR-2

VEGETATION

1.	Dominant Plant Species:	Stratum:	Indicator:	11.	Dominant Plant Species:	Stratum:	Indicator:
2.	<i>Acer rubrum (red maple)</i>	S/T	FAC	12.			
3.	<i>Rhamnus frangula (glossy buckthorn)</i>	S	FAC	13.			
4.				14.			
5.				15.			
6.				16.			
7.				17.			
8.				18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW or FAC (and excluding FAC-) = 100%

Remarks:

Forested upland to Wetland RR

HYDROLOGY

<p> <input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> No Recorded Data Available </p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands
<p>Field Observations:</p> <p>Depth of Surface Water: <u>0</u> (inches)</p> <p>Depth to Free Water in Pit: <u>> 14</u> (inches)</p> <p>Depth to Saturated Soil: <u>> 14</u> (inches)</p>	<p>Secondary Indicators:</p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Others (Explain in Remarks)
<p>Remarks:</p>	

Project/Site: J. Harvey Crow
 Site/Area ID: RR-2

SOILS

Map Unit Name:		(Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>Somewhat poorly drained</u>	
(Taxonomy Subgroup): <u>Aeric Ochraqualfs</u>				Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Profile Description:					
Depth (inches):	Horizon:	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle (Abundance/Size):	Texture, Concretions, Structure:
0 - 6	A	2.5 Y 4/2	---	---	silt loam
6 - 14	B	5 Y 6/4	10 YR 6/8	many/medium	silty loam
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol				<input type="checkbox"/> Concretions	
<input type="checkbox"/> Histic Epipedon				<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	
<input type="checkbox"/> Sulfidic Odor				<input type="checkbox"/> Organic Streaking in Sandy Soil	
<input type="checkbox"/> Aquic Moisture Regimes				<input type="checkbox"/> Listed on Local Hydric Soils List	
<input type="checkbox"/> Reducing Conditions				<input type="checkbox"/> Listed on National Hydric Soils List	
<input type="checkbox"/> Gleyed or Low Chroma Colors				<input type="checkbox"/> Other (Explain in Remarks)	
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks:			
Upland test-site for Wetland RR			

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

Project/Site: J. Harvey Crow Applicant/Owner: The Dalad Group Investigator(s): MJW	Date: 4/27/2006 County: Cuyahoga State: OH
Do normal circumstances exist on the site? Yes <u> X </u> No <u> </u> Is the site significantly disturbed (Atypical?) Yes <u> </u> No <u> X </u> Is the area a potential problem area? Yes <u> </u> No <u> X </u> (if needed, explain on reverse.)	Community ID: Wetland SS Plot ID: SS-1

VEGETATION

	Dominant Plant Species:	Stratum:	Indicator:		Dominant Plant Species:	Stratum:	Indicator:
1.	<i>Acer rubrum</i> (red maple)	S/T	FAC	11.			
2.	<i>Quercus palustris</i> (pin oak)	T	FACW	12.			
3.	<i>Rhamnus frangula</i> (glossy buckthorn)	S	FAC	13.			
4.	<i>Carex stricta</i> (uplight sedge)	H	OBL	14.			
5.	<i>Carex spp.</i> (sedge spp.)	H	OBL	15.			
6.	<i>Poa palustris</i> (fowl bluegrass)	H	FACW	16.			
7.	<i>Ulmus americana</i> (am. elm)	T	FACW	17.			
8.				18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW or FAC (and excluding FAC-) = 100%

Remarks:

Forested wetland - along west property boundary

HYDROLOGY

Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators: <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input checked="" type="checkbox"/> Water Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Others (Explain in Remarks)
Field Observations: Depth of Surface Water: <u> 8 </u> (inches) Depth to Free Water in Pit: <u> surface </u> (inches) Depth to Saturated Soil: <u> surface </u> (inches)	
Remarks:	

Project/Site: J. Harvey Crow
 Site/Area ID: SS-1

SOILS

Map Unit Name:		<u>Mahoning (0-2%)</u>		Drainage Class: <u>Somewhat poorly drained</u>	
(Series and Phase):		<u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type? Yes _____ No <u>X</u>	
(Taxonomy Subgroup):					
Profile Description:					
Depth (inches):	Horizon:	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle (Abundance/Size):	Texture, Concretions, Structure:
0 - 5	A	10 YR 5/5	---	---	silt loam
5 - 14	B	2.5 YR 6/1	10 YR 5/8	many/medium	silty clay
Hydric Soil Indicators:					
<input type="checkbox"/>	Histosol	<input type="checkbox"/>		<input type="checkbox"/>	Concretions
<input type="checkbox"/>	Histic Epipedon	<input type="checkbox"/>		<input type="checkbox"/>	High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/>	Sulfidic Odor	<input type="checkbox"/>		<input type="checkbox"/>	Organic Streaking in Sandy Soil
<input type="checkbox"/>	Aquic Moisture Regimes	<input type="checkbox"/>		<input type="checkbox"/>	Listed on Local Hydric Soils List
<input type="checkbox"/>	Reducing Conditions	<input type="checkbox"/>		<input type="checkbox"/>	Listed on National Hydric Soils List
<input checked="" type="checkbox"/>	Gleyed or Low Chroma Colors	<input type="checkbox"/>		<input type="checkbox"/>	Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is this Sampling Point Within a Wetland? Yes <u>X</u> No _____
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Hydric Soils Present?	Yes <u>X</u>	No _____	
Remarks:			
Wetland SS			

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

Project/Site: J. Harvey Crow Applicant/Owner: The Dalad Group Investigator(s): MJW	Date: 4/27/2006 County: Cuyahoga State: OH
Do normal circumstances exist on the site? Yes <u> X </u> No <u> </u> Is the site significantly disturbed (Atypical?) Yes <u> </u> No <u> X </u> Is the area a potential problem area? Yes <u> </u> No <u> X </u> (if needed, explain on reverse.)	Community ID: Wetland SS Plot ID: SS-2

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:	Dominant Plant Species:	Stratum:	Indicator:
1. <i>Podophyllum peltatum</i> (may apple)	H	FACU	11.		
2. <i>Polystichum crostichoides</i> (x-mas fern)	H	FACU-	12.		
3. <i>Acer rubrum</i> (red maple)	S/T	FAC	13.		
4.			14.		
5.			15.		
6.			16.		
7.			17.		
8.			18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW or FAC (and excluding FAC-) = 30%

Remarks:

HYDROLOGY

<p> <input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> No Recorded Data Available </p> <p>Field Observations:</p> <p>Depth of Surface Water: <u> 0 </u> (inches)</p> <p>Depth to Free Water in Pit: <u> > 14 </u> (inches)</p> <p>Depth to Saturated Soil: <u> > 14 </u> (inches)</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands </p> <p>Secondary Indicators:</p> <p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Others (Explain in Remarks) </p>
Remarks:	

Project/Site: J. Harvey Crow
 Site/Area ID: SS-2

SOILS

Map Unit Name:		(Series and Phase): <u>Mahoning (0-2%)</u>		Drainage Class: <u>Somewhat poorly drained</u>	
(Taxonomy Subgroup): <u>Aeric Ochraqualfs</u>				Field Observations Confirm Mapped Type? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Profile Description:					
Depth (inches):	Horizon:	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle (Abundance/Size):	Texture, Concretions, Structure:
0 - 7	A	10 YR 3/3	---	---	silt loam
7 - 14	B	2.5 YR 6/4	10 YR 5/8	many/medium	silty cl;ay
Hydric Soil Indicators:					
<input type="checkbox"/>	Histosol	<input type="checkbox"/>		<input type="checkbox"/>	Concretions
<input type="checkbox"/>	Histic Epipedon	<input type="checkbox"/>		<input type="checkbox"/>	High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/>	Sulfidic Odor	<input type="checkbox"/>		<input type="checkbox"/>	Organic Streaking in Sandy Soil
<input type="checkbox"/>	Aquic Moisture Regimes	<input type="checkbox"/>		<input type="checkbox"/>	Listed on Local Hydric Soils List
<input type="checkbox"/>	Reducing Conditions	<input type="checkbox"/>		<input type="checkbox"/>	Listed on National Hydric Soils List
<input type="checkbox"/>	Gleyed or Low Chroma Colors	<input type="checkbox"/>		<input type="checkbox"/>	Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is this Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks:			
Upland test site to Wetland SS			

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

Project/Site: J. Harvey Crow Applicant/Owner: The Dalad Group Investigator(s): MJW	Date: 4/27/2006 County: Cuyahoga State: OH
Do normal circumstances exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Is the site significantly disturbed (Atypical?) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Is the area a potential problem area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (if needed, explain on reverse.)	Community ID: Wetland TT Plot ID: TT-1

VEGETATION

Dominant Plant Species:	Stratum:	Indicator:	Dominant Plant Species:	Stratum:	Indicator:
1. <i>Acer rubrum</i> (red maple)	S/T	FAC	11.		
2. <i>Quercus palustris</i> (pin oak)	T	FACW	12.		
3. <i>Rhamnus frangula</i> (glossy buckthorn)	S	FAC	13.		
4. <i>Poa palustris</i> (fowl bluegrass)	H	FACW	14.		
5. <i>Carex</i> spp. (sedge spp.)	H	OBL	15.		
6. <i>Ulmus americana</i> (am. elm)	T	FACW	16.		
7.			17.		
8.			18.		
9.			19.		
10.			20.		

Percent of dominant species that are OBL, FACW or FAC (and excluding FAC-) = 100%

Remarks:

Forested wetland - along west property boundary

HYDROLOGY

<p> <input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> No Recorded Data Available </p> <p>Field Observations:</p> <p>Depth of Surface Water: <u>2</u> (inches)</p> <p>Depth to Free Water in Pit: <u>surface</u> (inches)</p> <p>Depth to Saturated Soil: <u>surface</u> (inches)</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p><input checked="" type="checkbox"/> Inundated</p> <p><input checked="" type="checkbox"/> Saturated in upper 12 inches</p> <p><input type="checkbox"/> Water Marks</p> <p><input type="checkbox"/> Drift Lines</p> <p><input type="checkbox"/> Sediment Deposits</p> <p><input type="checkbox"/> Drainage Patterns in Wetlands</p> <p>Secondary Indicators:</p> <p><input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches</p> <p><input checked="" type="checkbox"/> Water Stained Leaves</p> <p><input type="checkbox"/> Local Soil Survey Data</p> <p><input type="checkbox"/> FAC-Neutral Test</p> <p><input type="checkbox"/> Others (Explain in Remarks)</p>
<p>Remarks:</p>	

Project/Site: J. Harvey Crow
 Site/Area ID: TT-1

SOILS

Map Unit Name:		<u>Mahoning (0-2%)</u>		Drainage Class: <u>Somewhat poorly drained</u>	
(Series and Phase):		<u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type?	
(Taxonomy Subgroup):				Yes _____ No <u>X</u>	
Profile Description:					
Depth (inches):	Horizon:	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle (Abundance/Size):	Texture, Concretions, Structure:
0 - 6	A	10 YR 5/4	---	---	silt loam
6 - 14	B	10 YR 6/1	10 YR 5/6	many/medium	silty clay
Hydric Soil Indicators:					
<input type="checkbox"/>	Histosol	<input type="checkbox"/>		<input type="checkbox"/>	Concretions
<input type="checkbox"/>	Histic Epipedon	<input type="checkbox"/>		<input type="checkbox"/>	High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/>	Sulfidic Odor	<input type="checkbox"/>		<input type="checkbox"/>	Organic Streaking in Sandy Soil
<input type="checkbox"/>	Aquic Moisture Regimes	<input type="checkbox"/>		<input type="checkbox"/>	Listed on Local Hydric Soils List
<input type="checkbox"/>	Reducing Conditions	<input type="checkbox"/>		<input type="checkbox"/>	Listed on National Hydric Soils List
<input checked="" type="checkbox"/>	Gleyed or Low Chroma Colors	<input type="checkbox"/>		<input type="checkbox"/>	Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is this Sampling Point Within a Wetland? Yes <u>X</u> No _____
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Hydric Soils Present?	Yes <u>X</u>	No _____	
Remarks:			
Wetland TT			

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

Project/Site: J. Harvey Crow Applicant/Owner: The Dalad Group Investigator(s): MJW	Date: 4/27/2006 County: Cuyahoga State: OH
Do normal circumstances exist on the site? Yes <u> X </u> No <u> </u> Is the site significantly disturbed (Atypical?) Yes <u> </u> No <u> X </u> Is the area a potential problem area? Yes <u> </u> No <u> X </u> (if needed, explain on reverse.)	Community ID: Wetland TT Plot ID: TT-2

VEGETATION

1.	Dominant Plant Species:	Stratum:	Indicator:	11.	Dominant Plant Species:	Stratum:	Indicator:
	<i>Podophyllum peltatum</i> (may apple)	H	FACU				
	<i>Polystichum macrostichoides</i> (x-mas fern)	H	FACU-				
	<i>Acer rubrum</i> (red maple)	S/T	FAC				
	<i>Quercus palustris</i> (pin oak)	T	FACW				
5.				15.			
6.				16.			
7.				17.			
8.				18.			
9.				19.			
10.				20.			

Percent of dominant species that are OBL, FACW or FAC (and excluding FAC-) = 50%

Remarks:

HYDROLOGY

<p> <input type="checkbox"/> Recorded Data (Describe in Remarks) <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> No Recorded Data Available </p> <p>Field Observations:</p> <p>Depth of Surface Water: <u> 0 </u> (inches)</p> <p>Depth to Free Water in Pit: <u> > 14 </u> (inches)</p> <p>Depth to Saturated Soil: <u> > 14 </u> (inches)</p>	<p>Wetland Hydrology Indicators:</p> <p>Primary Indicators:</p> <p> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in upper 12 inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands </p> <p>Secondary Indicators:</p> <p> <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Others (Explain in Remarks) </p>
<p>Remarks:</p>	

Project/Site: J. Harvey Crow
 Site/Area ID: TT-2

SOILS

Map Unit Name:		<u>Mahoning (0-2%)</u>		Drainage Class: <u>Somewhat poorly drained</u>	
(Series and Phase):		<u>Aeric Ochraqualfs</u>		Field Observations Confirm Mapped Type?	
(Taxonomy Subgroup):				Yes <u>X</u> No _____	
Profile Description:					
Depth (inches):	Horizon:	Matrix Color (Munsell Moist):	Mottle Colors (Munsell Moist):	Mottle (Abundance/Size):	Texture, Concretions, Structure:
0 - 6	A	10 YR 5/4	---	---	silt loam
6 - 14	B	10 YR 6/4	10 YR 5/8	many/medium	silty loam
Hydric Soil Indicators:					
<input type="checkbox"/>	Histosol	<input type="checkbox"/>		<input type="checkbox"/>	Concretions
<input type="checkbox"/>	Histic Epipedon	<input type="checkbox"/>		<input type="checkbox"/>	High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/>	Sulfidic Odor	<input type="checkbox"/>		<input type="checkbox"/>	Organic Streaking in Sandy Soil
<input type="checkbox"/>	Aquic Moisture Regimes	<input type="checkbox"/>		<input type="checkbox"/>	Listed on Local Hydric Soils List
<input type="checkbox"/>	Reducing Conditions	<input type="checkbox"/>		<input type="checkbox"/>	Listed on National Hydric Soils List
<input type="checkbox"/>	Gleyed or Low Chroma Colors	<input type="checkbox"/>		<input type="checkbox"/>	Other (Explain in Remarks)
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is this Sampling Point Within a Wetland? Yes _____ No <u>X</u>
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Hydric Soils Present?	Yes _____	No <u>X</u>	
Remarks:			
Upland test site to Wetland TT			

APPENDIX D

PHOTOGRAPHS

Photographic Documentation

Client: J. Harvey Crow Parcel **Project Number:** 136614
Location: Miller Road **Photographer:** MJW
Brecksville, Cuyahoga County, OH

Photograph No. 1

Direction: West

Description:
View of new Wetland RR.



Photograph No. 2

Direction: East

Description:
View of the expanded wetland area to the north of Wetland B.



Photographic Documentation

Client: J. Harvey Crow Parcel **Project Number:** 136614
Location: Miller Road **Photographer:** MJW
Brecksville, Cuyahoga County, OH

Photograph No. 3

Direction: Southwest

Description:
View of the expanded wetland area to Wetland H. Interstate 77 is shown in the background of this photograph.

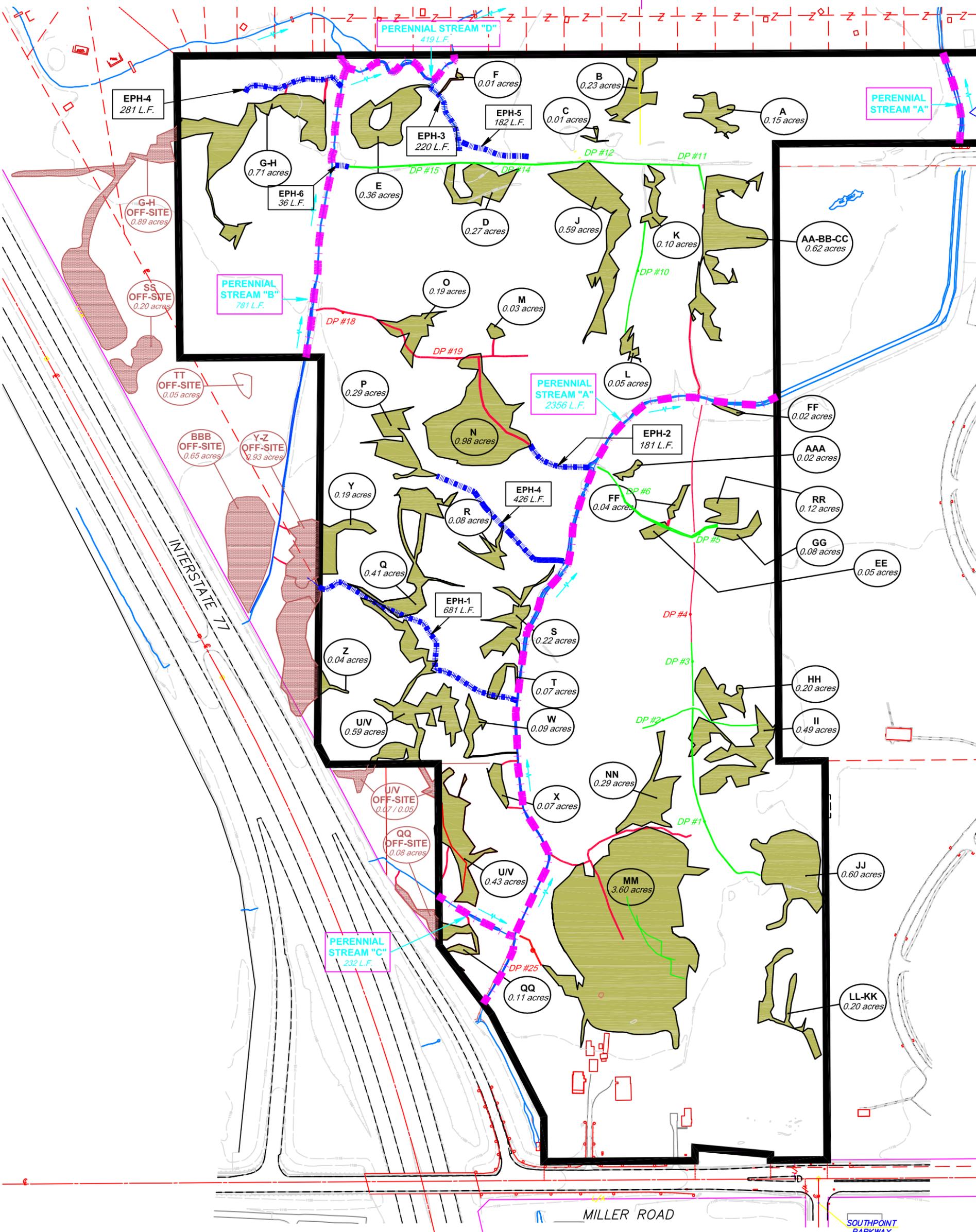
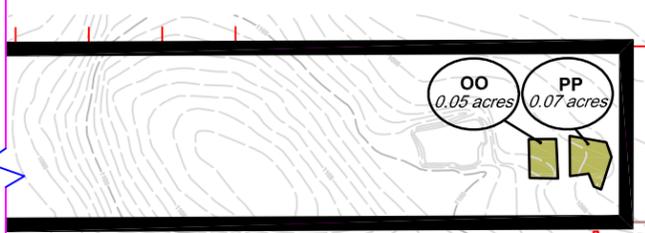


Photograph No. 4

Direction: South

Description:
View of Wetland SS located along a portion of the western property boundary.





LEGEND:

-  WETLAND AREA
-  PERENNIAL STREAM
-  EPHEMERAL STREAM
-  NONJURISDICTIONAL CONNECTIONS

"ADDENDUM TO WETLAND DELINEATION"
FIGURE A-1 ADJUSTED WETLAND AREA
CROWLAND, LTD.
CITY OF BRECKSVILLE, CUYAHOGA COUNTY, OHIO
Prepared By: DAVEY TREE
Date: August 5, 2010

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 01
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 01

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/>	0.0%	_____
2. _____	0	<input type="checkbox"/>	0.0%	_____
3. _____	0	<input type="checkbox"/>	0.0%	_____
4. _____	0	<input type="checkbox"/>	0.0%	_____
5. _____	0	<input type="checkbox"/>	0.0%	_____
6. _____	0	<input type="checkbox"/>	0.0%	_____
7. _____	0	<input type="checkbox"/>	0.0%	_____
= Total Cover				
0				
Sapling/Shrub Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/>	0.0%	_____
2. _____	0	<input type="checkbox"/>	0.0%	_____
3. _____	0	<input type="checkbox"/>	0.0%	_____
4. _____	0	<input type="checkbox"/>	0.0%	_____
5. _____	0	<input type="checkbox"/>	0.0%	_____
6. _____	0	<input type="checkbox"/>	0.0%	_____
7. _____	0	<input type="checkbox"/>	0.0%	_____
= Total Cover				
0				
Herb Stratum (Plot size: 5 feet _____)	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
1. <u>Glyceria striata</u>	50	<input checked="" type="checkbox"/>	55.6%	OBL
2. <u>Alisma plantago-aquatica</u>	10	<input type="checkbox"/>	11.1%	OBL
3. <u>Onoclea sensibilis</u>	10	<input type="checkbox"/>	11.1%	FACW
4. <u>Leersia oryzoides</u>	10	<input type="checkbox"/>	11.1%	OBL
5. <u>Typha latifolia</u>	10	<input type="checkbox"/>	11.1%	OBL
6. _____	0	<input type="checkbox"/>	0.0%	_____
7. _____	0	<input type="checkbox"/>	0.0%	_____
8. _____	0	<input type="checkbox"/>	0.0%	_____
9. _____	0	<input type="checkbox"/>	0.0%	_____
10. _____	0	<input type="checkbox"/>	0.0%	_____
11. _____	0	<input type="checkbox"/>	0.0%	_____
12. _____	0	<input type="checkbox"/>	0.0%	_____
= Total Cover				
90				
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/>	0.0%	_____
2. _____	0	<input type="checkbox"/>	0.0%	_____
3. _____	0	<input type="checkbox"/>	0.0%	_____
4. _____	0	<input type="checkbox"/>	0.0%	_____
= Total Cover				
0				

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of: 90 Multiply by: 100

OBL species 80 x 1 = 80

FACW species 10 x 2 = 20

FAC species 0 x 3 = 0

FACU species 0 x 4 = 0

UPL species 0 x 5 = 0

Column Totals: 90 (A) 100 (B)

Prevalence Index = B/A = 1.111

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is > 50%

Prevalence Index is ≤ 3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes No

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 02
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 02

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>50</u> x 1 = <u>50</u> FACW species <u>50</u> x 2 = <u>100</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>150</u> (B) Prevalence Index = B/A = <u>1.500</u>
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Herb Stratum (Plot size: 5 feet _____)				
1. <u>Onoclea sensibilis</u>	50	<input checked="" type="checkbox"/> 50.0%	FACW	
2. <u>Leersia oryzoides</u>	50	<input checked="" type="checkbox"/> 50.0%	OBL	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
11. _____	0	<input type="checkbox"/> 0.0%	_____	
12. _____	0	<input type="checkbox"/> 0.0%	_____	
100 = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Hydrophytic Vegetation Indicators:				
<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation				
<input checked="" type="checkbox"/> Dominance Test is > 50%				
<input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹				
<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)				
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Definitions of Vegetation Strata:				
Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.				
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..				
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.				
Woody vine - All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>				

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #2

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 03
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks:	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____ _____	
Remarks:	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 03

	Absolute % Cover		Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: _____)					Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>100</u> x 2 = <u>200</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>200</u> (B) Prevalence Index = B/A = <u>2.000</u>
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Sapling/Shrub Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Herb Stratum (Plot size: 5 feet _____)					
1. <u>Scirpus cyperinus</u>	100	<input checked="" type="checkbox"/>	100.0%	FACW+	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
11. _____	0	<input type="checkbox"/>	0.0%	_____	
12. _____	0	<input type="checkbox"/>	0.0%	_____	
100 = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.					
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>					

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #3

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 04
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: No vegetation; wetland soil and hydrology present	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____	
Remarks: 	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 04

Tree Stratum (Plot size: _____)	Absolute % Cover	Rel.Strat. Cover	Indicator Status		Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%			Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
2. _____	0	<input type="checkbox"/> 0.0%			Total Number of Dominant Species Across All Strata: 1 (B)
3. _____	0	<input type="checkbox"/> 0.0%			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
	0	= Total Cover			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: _____)					Total % Cover of: _____ Multiply by: _____
1. _____	0	<input type="checkbox"/> 0.0%			OBL species 0 x 1 = 0
2. _____	0	<input type="checkbox"/> 0.0%			FACW species 0 x 2 = 0
3. _____	0	<input type="checkbox"/> 0.0%			FAC species 0 x 3 = 0
4. _____	0	<input type="checkbox"/> 0.0%			FACU species 0 x 4 = 0
5. _____	0	<input type="checkbox"/> 0.0%			UPL species 0 x 5 = 0
6. _____	0	<input type="checkbox"/> 0.0%			Column Totals: 0 (A) 0 (B)
7. _____	0	<input type="checkbox"/> 0.0%			Prevalence Index = B/A = 0.000
	0	= Total Cover			Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: _____)					<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation
1. _____	0	<input type="checkbox"/> 0.0%			<input type="checkbox"/> Dominance Test is > 50%
2. _____	0	<input type="checkbox"/> 0.0%			<input type="checkbox"/> Prevalence Index is ≤3.0¹
3. _____	0	<input type="checkbox"/> 0.0%			<input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	0	<input type="checkbox"/> 0.0%			<input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)
5. _____	0	<input type="checkbox"/> 0.0%			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____	0	<input type="checkbox"/> 0.0%			Definitions of Vegetation Strata:
7. _____	0	<input type="checkbox"/> 0.0%			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8. _____	0	<input type="checkbox"/> 0.0%			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..
9. _____	0	<input type="checkbox"/> 0.0%			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10. _____	0	<input type="checkbox"/> 0.0%			Woody vine - All woody vines greater than 3.28 ft in height.
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	0	= Total Cover			
Woody Vine Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/> 0.0%			
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
	0	= Total Cover			
Hydrophytic Vegetation Present?					Yes <input type="radio"/> No <input checked="" type="radio"/>

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

No vegetation

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #4

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 05
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Sampling Point: 05/06

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. _____	0	<input type="checkbox"/> 0.0%	_____	Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%	_____	Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>0</u> x 1 = <u>0</u>	
7. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>100</u> x 2 = <u>200</u>	
Sapling/Shrub Stratum (Plot size: _____)			= Total Cover	FAC species <u>0</u> x 3 = <u>0</u>	
1. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>0</u> x 4 = <u>0</u>	
2. _____	0	<input type="checkbox"/> 0.0%	_____	UPL species <u>0</u> x 5 = <u>0</u>	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Column Totals: <u>100</u> (A) <u>200</u> (B)	
4. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index = B/A = <u>2.000</u>	
5. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Indicators:	
6. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
7. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> Dominance Test is > 50%	
8. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> Prevalence Index is ≤ 3.0¹	
9. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	
10. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)	
11. _____	0	<input type="checkbox"/> 0.0%	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
12. _____	0	<input type="checkbox"/> 0.0%	_____	Definitions of Vegetation Strata:	
Herb Stratum (Plot size: 5 feet _____)			= Total Cover	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
1. <i>Glyceria striata</i>	50	<input checked="" type="checkbox"/> 50.0% FACW+	_____	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..	
2. <i>Leersia oryzoides</i>	50	<input checked="" type="checkbox"/> 50.0% FACW+	_____	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Woody vine - All woody vines greater than 3.28 ft in height.	
4. _____	0	<input type="checkbox"/> 0.0%	_____		
5. _____	0	<input type="checkbox"/> 0.0%	_____		
6. _____	0	<input type="checkbox"/> 0.0%	_____		
7. _____	0	<input type="checkbox"/> 0.0%	_____		
8. _____	0	<input type="checkbox"/> 0.0%	_____		
9. _____	0	<input type="checkbox"/> 0.0%	_____		
10. _____	0	<input type="checkbox"/> 0.0%	_____		
11. _____	0	<input type="checkbox"/> 0.0%	_____		
12. _____	0	<input type="checkbox"/> 0.0%	_____		
Woody Vine Stratum (Plot size: _____)			= Total Cover	Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
1. _____	0	<input type="checkbox"/> 0.0%	_____		
2. _____	0	<input type="checkbox"/> 0.0%	_____		
3. _____	0	<input type="checkbox"/> 0.0%	_____		
4. _____	0	<input type="checkbox"/> 0.0%	_____		
			= Total Cover		
			0		

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #5

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 06
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	



Data Point #6

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 10
Investigator(s): Rosty Caryk **Section, Township, Range:** S. T. R.
Landform (hillslope, terrace, etc.): **Local relief (concave, convex, none):** **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** **Long.:** **Datum:**

Soil Map Unit Name: **NWI classification:**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0 Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 10

Tree Stratum (Plot size: _____)	Absolute % Cover	Rel.Strat. Cover	Indicator Status		Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%			Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	0	<input type="checkbox"/> 0.0%			Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%			Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%			
5. _____	0	<input type="checkbox"/> 0.0%			
6. _____	0	<input type="checkbox"/> 0.0%			
7. _____	0	<input type="checkbox"/> 0.0%			
	0	= Total Cover			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: _____)					Total % Cover of: _____ Multiply by: _____
1. _____	0	<input type="checkbox"/> 0.0%			OBL species <u>70</u> x 1 = <u>70</u>
2. _____	0	<input type="checkbox"/> 0.0%			FACW species <u>30</u> x 2 = <u>60</u>
3. _____	0	<input type="checkbox"/> 0.0%			FAC species <u>0</u> x 3 = <u>0</u>
4. _____	0	<input type="checkbox"/> 0.0%			FACU species <u>0</u> x 4 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%			UPL species <u>0</u> x 5 = <u>0</u>
6. _____	0	<input type="checkbox"/> 0.0%			Column Totals: <u>100</u> (A) <u>130</u> (B)
7. _____	0	<input type="checkbox"/> 0.0%			Prevalence Index = B/A = <u>1.300</u>
	0	= Total Cover			Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5 feet _____)					<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation
1. <i>Glyceria striata</i>	70	<input checked="" type="checkbox"/> 70.0%	OBL		<input checked="" type="checkbox"/> Dominance Test is > 50%
2. <i>Leersia virginica</i>	30	<input checked="" type="checkbox"/> 30.0%	FACW		<input checked="" type="checkbox"/> Prevalence Index is ≤3.0¹
3. _____	0	<input type="checkbox"/> 0.0%			<input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	0	<input type="checkbox"/> 0.0%			<input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)
5. _____	0	<input type="checkbox"/> 0.0%			¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____	0	<input type="checkbox"/> 0.0%			Definitions of Vegetation Strata:
7. _____	0	<input type="checkbox"/> 0.0%			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8. _____	0	<input type="checkbox"/> 0.0%			Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..
9. _____	0	<input type="checkbox"/> 0.0%			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10. _____	0	<input type="checkbox"/> 0.0%			Woody vine - All woody vines greater than 3.28 ft in height.
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
	100	= Total Cover			
Woody Vine Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/> 0.0%			
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
	0	= Total Cover			

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

Hydrophytic Vegetation Present? Yes No

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #10

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 11
Investigator(s): Rosty Caryk **Section, Township, Range:** S. T. R.
Landform (hillslope, terrace, etc.): **Local relief (concave, convex, none):** **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** **Long.:** **Datum:**
Soil Map Unit Name: Mahoning silt loam **NWI classification:**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0 Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Dominant

Sampling Point: 11

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. _____	0	<input type="checkbox"/> 0.0%		Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)	
2. _____	0	<input type="checkbox"/> 0.0%		Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	0	<input type="checkbox"/> 0.0%		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%		Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%		Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%		OBL species <u>90</u> x 1 = <u>90</u>	
7. _____	0	<input type="checkbox"/> 0.0%		FACW species <u>0</u> x 2 = <u>0</u>	
Sapling/Shrub Stratum (Plot size: _____)			= Total Cover		
1. _____	0	<input type="checkbox"/> 0.0%		FAC species <u>0</u> x 3 = <u>0</u>	
2. _____	0	<input type="checkbox"/> 0.0%		FACU species <u>0</u> x 4 = <u>0</u>	
3. _____	0	<input type="checkbox"/> 0.0%		UPL species <u>0</u> x 5 = <u>0</u>	
4. _____	0	<input type="checkbox"/> 0.0%		Column Totals: <u>90</u> (A) <u>90</u> (B)	
5. _____	0	<input type="checkbox"/> 0.0%		Prevalence Index = B/A = <u>1.000</u>	
6. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Indicators:	
7. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5 feet _____)			= Total Cover		
1. <u>Glyceria striata</u>	40	<input checked="" type="checkbox"/> 44.4% OBL		<input checked="" type="checkbox"/> Dominance Test is > 50%	
2. <u>Leersia oryzoides</u>	50	<input checked="" type="checkbox"/> 55.6% OBL		<input checked="" type="checkbox"/> Prevalence Index is ≤3.0¹	
3. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	
4. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)	
5. _____	0	<input type="checkbox"/> 0.0%		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
6. _____	0	<input type="checkbox"/> 0.0%		Definitions of Vegetation Strata:	
7. _____	0	<input type="checkbox"/> 0.0%		Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
8. _____	0	<input type="checkbox"/> 0.0%		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..	
9. _____	0	<input type="checkbox"/> 0.0%		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
10. _____	0	<input type="checkbox"/> 0.0%		Woody vine - All woody vines greater than 3.28 ft in height.	
11. _____	0	<input type="checkbox"/> 0.0%			
12. _____	0	<input type="checkbox"/> 0.0%			
Woody Vine Stratum (Plot size: _____)			= Total Cover		
1. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
2. _____	0	<input type="checkbox"/> 0.0%			
3. _____	0	<input type="checkbox"/> 0.0%			
4. _____	0	<input type="checkbox"/> 0.0%			
Remarks: (Include photo numbers here or on a separate sheet.)					

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix			Redox Features					Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type ¹	Loc ²			
0-6	10YR	3/2	80%						Loam	
6-12	10YR	5/1	70%	10YR	5/6	30%	C	M	Clay Loam	
12-18	10YR	6/2	80%	10YR	6/6	20%	C	M	Clay	

¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains ²Location: PL=Pore Lining. M=Matrix

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Muck Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)		<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) <input type="checkbox"/> Loamy Mucky Mineral (F1) LRR K, L) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input checked="" type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils : ³ <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) <input type="checkbox"/> Dark Surface (S7) (LRR K, L) <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
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Remarks:



Data Point #11

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 12
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____

Soil Map Unit Name: _____ **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Sampling Point: 12

Tree Stratum (Plot size: _____)		Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	<p>Dominance Test worksheet:</p> <p>Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>1</u> (B)</p> <p>Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)</p> <hr/> <p>Prevalence Index worksheet:</p> <p>Total % Cover of: _____ Multiply by: _____</p> <p>OBL species <u>80</u> x 1 = <u>80</u></p> <p>FACW species <u>0</u> x 2 = <u>0</u></p> <p>FAC species <u>0</u> x 3 = <u>0</u></p> <p>FACU species <u>0</u> x 4 = <u>0</u></p> <p>UPL species <u>0</u> x 5 = <u>0</u></p> <p>Column Totals: <u>80</u> (A) <u>80</u> (B)</p> <p>Prevalence Index = B/A = <u>1.000</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><input type="checkbox"/> Rapid Test for Hydrophytic Vegetation</p> <p><input checked="" type="checkbox"/> Dominance Test is > 50%</p> <p><input checked="" type="checkbox"/> Prevalence Index is ≤3.0¹</p> <p><input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)</p> <p><input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Definitions of Vegetation Strata:</p> <p>Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..</p> <p>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vine - All woody vines greater than 3.28 ft in height.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/></p>
1. _____	0	<input type="checkbox"/>	0.0%		
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
5. _____	0	<input type="checkbox"/>	0.0%		
6. _____	0	<input type="checkbox"/>	0.0%		
7. _____	0	<input type="checkbox"/>	0.0%		
Sapling/Shrub Stratum (Plot size: _____)		0 = Total Cover			
1. _____	0	<input type="checkbox"/>	0.0%		
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
5. _____	0	<input type="checkbox"/>	0.0%		
6. _____	0	<input type="checkbox"/>	0.0%		
7. _____	0	<input type="checkbox"/>	0.0%		
Herb Stratum (Plot size: 5 feet _____)		0 = Total Cover			
1. <u>Leersia oryzoides</u>	80	<input checked="" type="checkbox"/>	100.0%	OBL	
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
5. _____	0	<input type="checkbox"/>	0.0%		
6. _____	0	<input type="checkbox"/>	0.0%		
7. _____	0	<input type="checkbox"/>	0.0%		
8. _____	0	<input type="checkbox"/>	0.0%		
9. _____	0	<input type="checkbox"/>	0.0%		
10. _____	0	<input type="checkbox"/>	0.0%		
11. _____	0	<input type="checkbox"/>	0.0%		
12. _____	0	<input type="checkbox"/>	0.0%		
Woody Vine Stratum (Plot size: _____)		80 = Total Cover			
1. _____	0	<input type="checkbox"/>	0.0%		
2. _____	0	<input type="checkbox"/>	0.0%		
3. _____	0	<input type="checkbox"/>	0.0%		
4. _____	0	<input type="checkbox"/>	0.0%		
		0 = Total Cover			

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 14/15
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks:	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0 Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____ _____	
Remarks:	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 14/15

	Absolute % Cover		Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: _____)					Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>80</u> x 1 = <u>80</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>80</u> (A) <u>80</u> (B) Prevalence Index = B/A = <u>1.000</u>
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Sapling/Shrub Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Herb Stratum (Plot size: 5 feet _____)					
1. <u>Alisma plantago-aquatica</u>	40	<input checked="" type="checkbox"/>	50.0%	OBL	
2. <u>Leersia oryzoides</u>	40	<input checked="" type="checkbox"/>	50.0%	OBL	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
11. _____	0	<input type="checkbox"/>	0.0%	_____	
12. _____	0	<input type="checkbox"/>	0.0%	_____	
80 = Total Cover					
Woody Vine Stratum (Plot size: _____)					
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
0 = Total Cover					
Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.					
Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.					
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>					

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #14

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 18
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: 	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0 Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ 	
Remarks: 	

VEGETATION - Use scientific names of plants

Dominant

Sampling Point: 18

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	
Tree Stratum (Plot size: _____)				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B) Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>0</u> (A) <u>0</u> (B) Prevalence Index = B/A = <u>0.000</u>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
= Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
= Total Cover				
Herb Stratum (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
11. _____	0	<input type="checkbox"/> 0.0%	_____	
12. _____	0	<input type="checkbox"/> 0.0%	_____	
= Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
= Total Cover				
Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0¹ <input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.				
Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>				

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

No vegetation

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point # 18

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 19
Investigator(s): Rosty Caryk **Section, Township, Range:** S. _____ T. _____ R. _____
Landform (hillslope, terrace, etc.): _____ **Local relief (concave, convex, none):** _____ **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** _____ **Long.:** _____ **Datum:** _____
Soil Map Unit Name: Mahoning silt loam **NWI classification:** _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: No vegetation	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 0 Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: _____ _____ _____	
Remarks: _____ _____ _____	

VEGETATION - Use scientific names of plants

Sampling Point: 19

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
1. _____	0	<input type="checkbox"/> 0.0%	_____	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: 1 (B)	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)	
4. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet:	
5. _____	0	<input type="checkbox"/> 0.0%	_____	Total % Cover of: _____ Multiply by: _____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species 0 x 1 = 0	
7. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species 0 x 2 = 0	
			= Total Cover	FAC species 0 x 3 = 0	
Sapling/Shrub Stratum (Plot size: _____)				FACU species 0 x 4 = 0	
1. _____	0	<input type="checkbox"/> 0.0%	_____	UPL species 0 x 5 = 0	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Column Totals: 0 (A) 0 (B)	
3. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index = B/A = 0.000	
4. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Indicators:	
5. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
6. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Dominance Test is > 50%	
7. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Prevalence Index is ≤3.0¹	
8. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)	
9. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain)	
10. _____	0	<input type="checkbox"/> 0.0%	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
11. _____	0	<input type="checkbox"/> 0.0%	_____	Definitions of Vegetation Strata:	
12. _____	0	<input type="checkbox"/> 0.0%	_____	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
			= Total Cover	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..	
Woody Vine Stratum (Plot size: _____)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
1. _____	0	<input type="checkbox"/> 0.0%	_____	Woody vine - All woody vines greater than 3.28 ft in height.	
2. _____	0	<input type="checkbox"/> 0.0%	_____		
3. _____	0	<input type="checkbox"/> 0.0%	_____		
4. _____	0	<input type="checkbox"/> 0.0%	_____		
			= Total Cover		
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: (Include photo numbers here or on a separate sheet.)					
No vegetation					

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #19

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: J. Harvey Crow Parcel **City/County:** Cuyahoga **Sampling Date:** 28-Jul-10
Applicant/Owner: Crowland, Ltd. **State:** Ohio **Sampling Point:** 25
Investigator(s): Rosty Caryk **Section, Township, Range:** S. T. R.
Landform (hillslope, terrace, etc.): **Local relief (concave, convex, none):** **Slope:** 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR R **Lat.:** **Long.:** **Datum:**
Soil Map Unit Name: Mahoning silt loam **NWI classification:**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly disturbed?** **Are "Normal Circumstances" present?** Yes No
Are Vegetation , **Soil** , **or Hydrology** **naturally problematic?** (If needed, explain any answers in Remarks.)

Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks:	

Hydrology

Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION - Use scientific names of plants

Dominant Species?

Sampling Point: 25

Tree Stratum (Plot size: _____)	Absolute % Cover		Rel.Strat. Cover	Indicator Status	
1. _____	0	<input type="checkbox"/>	0.0%	_____	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
Sapling/Shrub Stratum (Plot size: _____)	0	= Total Cover			Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>70</u> x 1 = <u>70</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>70</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>1.000</u>
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
Herb Stratum (Plot size: 5 feet _____)	0	= Total Cover			Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0¹ <input type="checkbox"/> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Glyceria striata</u>	30	<input checked="" type="checkbox"/>	42.9%	OBL	
2. <u>Lysimachia nummularia</u>	40	<input checked="" type="checkbox"/>	57.1%	OBL	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
5. _____	0	<input type="checkbox"/>	0.0%	_____	
6. _____	0	<input type="checkbox"/>	0.0%	_____	
7. _____	0	<input type="checkbox"/>	0.0%	_____	
8. _____	0	<input type="checkbox"/>	0.0%	_____	
9. _____	0	<input type="checkbox"/>	0.0%	_____	
10. _____	0	<input type="checkbox"/>	0.0%	_____	
11. _____	0	<input type="checkbox"/>	0.0%	_____	
12. _____	0	<input type="checkbox"/>	0.0%	_____	
Woody Vine Stratum (Plot size: _____)	70	= Total Cover			Definitions of Vegetation Strata: Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall.. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.
1. _____	0	<input type="checkbox"/>	0.0%	_____	
2. _____	0	<input type="checkbox"/>	0.0%	_____	
3. _____	0	<input type="checkbox"/>	0.0%	_____	
4. _____	0	<input type="checkbox"/>	0.0%	_____	
	0	= Total Cover			Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

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

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



Data Point #25