

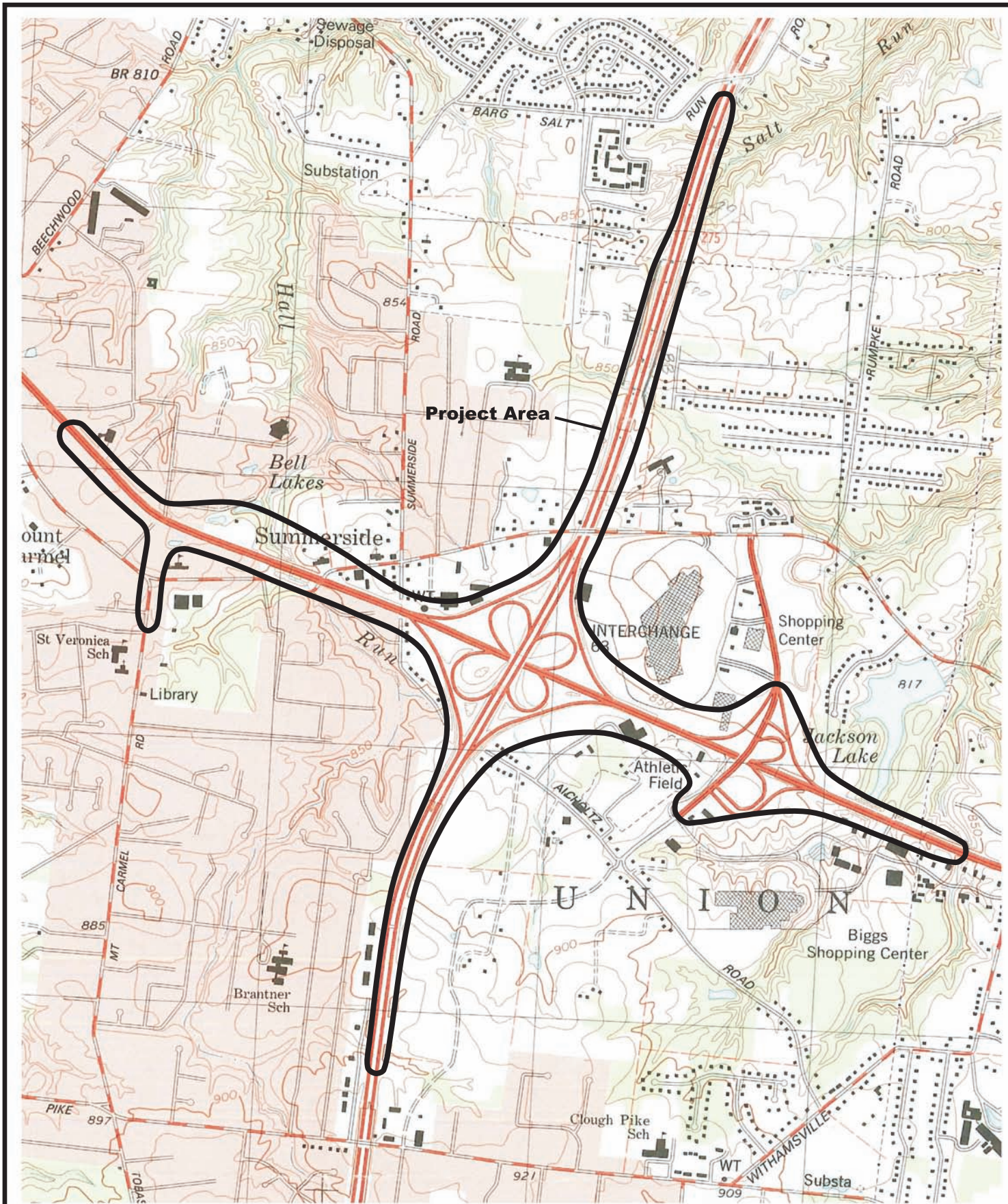
ATTACHMENT C

Ecological Resources and Agency Coordination




- C1 USGS Streams
- C2 NWI-Mapped Wetlands
- C3 Clermont County Soil Map/Key
- C4 Agency Information Request Responses
 - USFWS, September 14, 2001
 - ODNR, August 20, 2001
 - ODNR, June 14, 2006
- C5 Ecological Resources Coordination
 - USFWS, December 14, 2004
 - OEPA, November 22, 2004
 - ODNR, November 15, 2004
 - USACOE, October 26, 2004
 - USACOE, February 21, 2008

Attachment C1

USGS Streams



Base: Withamville 7.5" Quadrangle

0 FEET 2,000

NORTH

Categorical Exclusion Level 4

I-275 / SR 32 Interchange
 CLE-275-10.15; PID 76289

MARCH 2008

Attachment C1
USGS Streams

Attachment C2
NWI-Mapped Wetlands



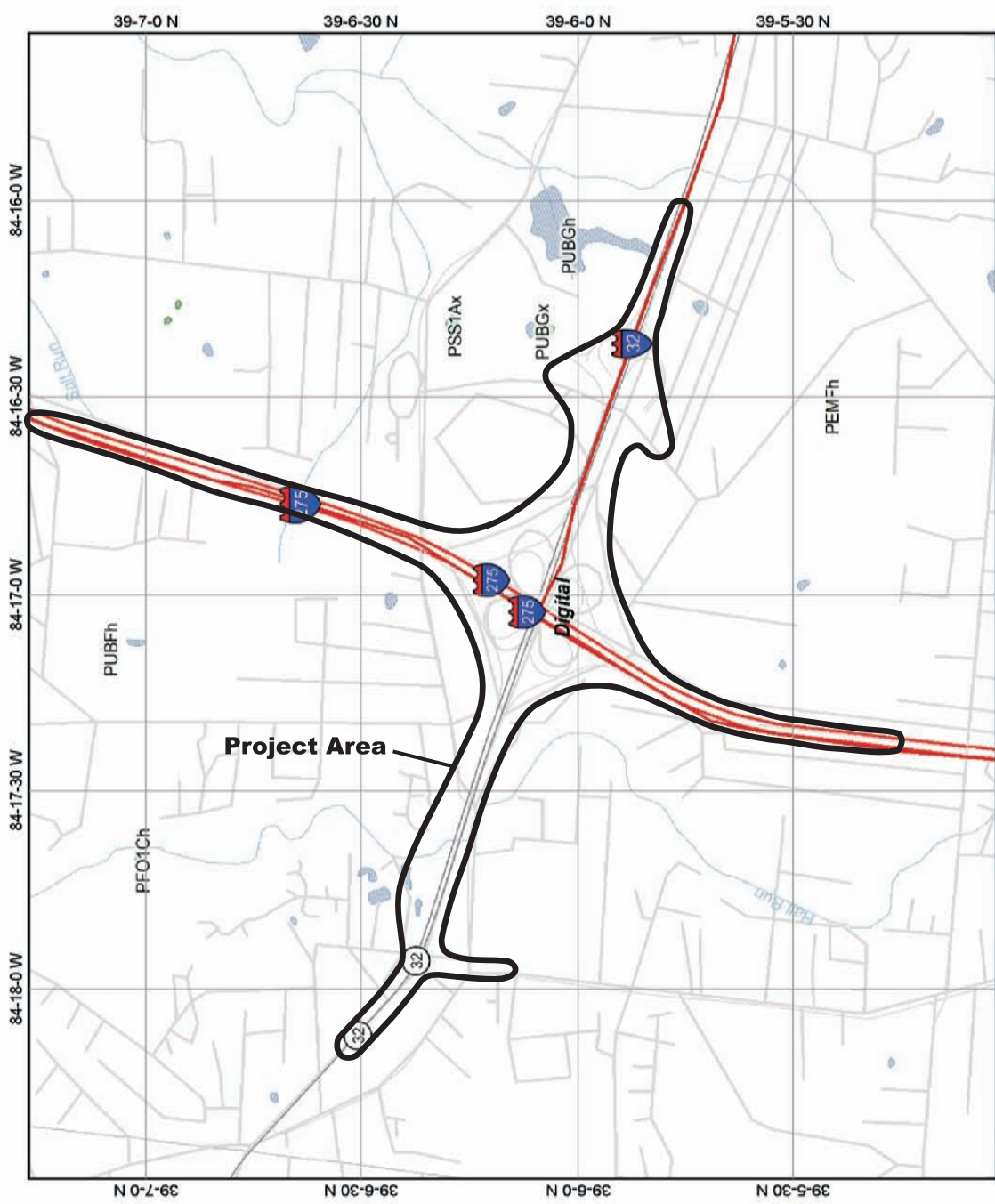
Legend

- CONUS_wet_scan
- 0
- 1
- Out of range
- Interstate
- Major Roads
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- South America
- North America



Scale: 1:29,030

NWI Mapped Wetlands



Map center: 39° 6' 9" N, 84° 17' 2" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



NORTH



MARCH 2008

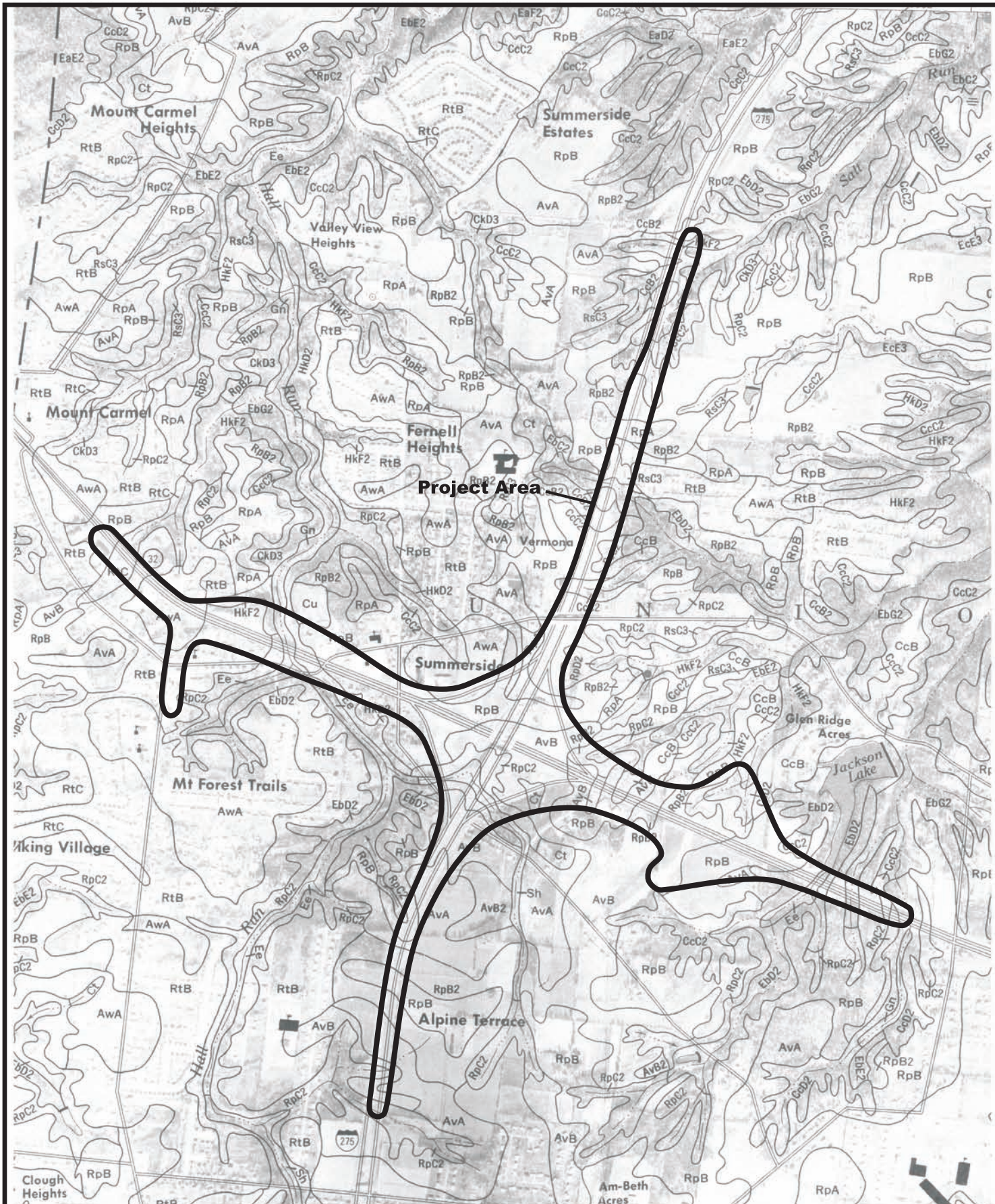
Categorical Exclusion Level 4

I-275 / SR 32 Interchange
CLE-275-10.15; PID 76289

Attachment C2

NWI-Mapped Wetlands

Attachment C3
Clermont County Soil Map/Key



Project Area



0 FEET 2,000

NORTH

MARCH 2008

Categorical Exclusion Level 4

I-275 / SR 32 Interchange
CLE-275-10.15; PID 76289

**Attachment C3
Clermont County
Soil Map**

SOIL LEGEND

The first capital letter is the initial one of the soil name. A second capital letter A, B, C, D, E, F, or G, shows the slope. Most symbols without a slope letter are those of nearly level soils, but some are for land types that have a considerable range of slope. A final number 2 or 3 in the symbol shows that the soil is moderately eroded or severely eroded.

SYMBOL	NAME	SYMBOL	NAME
AdC	Alluvial land, sloping	HkD2	Hickory loam, 12 to 18 percent slopes, moderately eroded
AvA	Avonburg silt loam, 0 to 2 percent slopes	HkF2	Hickory loam, 18 to 35 percent slopes, moderately eroded
AvB	Avonburg silt loam, 2 to 6 percent slopes	HIG3	Hickory clay loam, 25 to 50 percent slopes, severely eroded
AvB2	Avonburg silt loam, 2 to 6 percent slopes, moderately eroded	Hu	Huntington silt loam
AwA	Avonburg-Urban land complex, nearly level	Lg	Lanier sandy loam
Bc	Blanchester silt loam	Ln	Lindside silt loam
CcB	Cincinnati silt loam, 2 to 6 percent slopes	Mb	Mahalasville silty clay loam
CcB2	Cincinnati silt loam, 2 to 6 percent slopes, moderately eroded	MdB	Markland silt loam, 2 to 6 percent slopes
CcC2	Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded	MgA	McGary silt loam, 0 to 2 percent slopes
CcD2	Cincinnati silt loam, 12 to 18 percent slopes, moderately eroded	Mh	Medway silt loam, overwash
CkD3	Cincinnati and Hickory soils, 12 to 25 percent slopes, severely eroded	Ne	Newark silt loam
Ct	Clermont silt loam	OcA	Ockley silt loam, 0 to 2 percent slopes
Cu	Cut and fill land	OcB	Ockley silt loam, 2 to 6 percent slopes
EaD2	Eden flaggy silty clay loam, 12 to 18 percent slopes, moderately eroded	OdA	Ockley-Urban land complex, nearly level
EaE2	Eden flaggy silty clay loam, 18 to 25 percent slopes, moderately eroded	Rh	Riverwash
EaF2	Eden flaggy silty clay loam, 25 to 50 percent slopes, moderately eroded	RkD2	Rodman and Casco loams, 12 to 18 percent slopes, moderately eroded
EbC2	Edenton loam, 6 to 12 percent slopes, moderately eroded	RkE2	Rodman and Casco loams, 18 to 25 percent slopes, moderately eroded
EbD2	Edenton loam, 12 to 18 percent slopes, moderately eroded	Rn	Ross silt loam
EbE2	Edenton loam, 18 to 25 percent slopes, moderately eroded	RpA	Rossmoyne silt loam, 0 to 2 percent slopes
EbG2	Edenton loam, 25 to 50 percent slopes, moderately eroded	RpB	Rossmoyne silt loam, 2 to 6 percent slopes
EcE3	Edenton clay loam, 12 to 25 percent slopes, severely eroded	RpB2	Rossmoyne silt loam, 2 to 6 percent slopes, moderately eroded
EdG3	Edenton and Fairmount soils, 25 to 50 percent slopes, severely eroded	RpC2	Rossmoyne silt loam, 6 to 12 percent slopes, moderately eroded
Ee	Eel silt loam	RsC3	Rossmoyne silty clay loam, 6 to 12 percent slopes, severely eroded
FaE2	Fairmount very flaggy silty clay loam, 18 to 25 percent slopes, moderately eroded	RtB	Rossmoyne-Urban land complex, gently sloping
FaG2	Fairmount very flaggy silty clay loam, 25 to 50 percent slopes, moderately eroded	RtC	Rossmoyne-Urban land complex, sloping
FnB	Fox silt loam, 2 to 6 percent slopes	SaA	Sardinia silt loam, 0 to 2 percent slopes
FnC2	Fox silt loam, 6 to 12 percent slopes, moderately eroded	SaB	Sardinia silt loam, 2 to 6 percent slopes
FuB	Fox-Urban land complex, gently sloping	SeC2	Sees silty clay loam, 4 to 12 percent slopes, moderately eroded
Gn	Genesee silt loam	SeD2	Sees silty clay loam, 12 to 18 percent slopes, moderately eroded
GpB	Glenford silt loam, 2 to 6 percent slopes	Sh	Shoals silt loam
GpC2	Glenford silt loam, 6 to 12 percent slopes, moderately eroded	St	Stonelick sandy loam
GpE2	Glenford silt loam, 18 to 25 percent slopes, moderately eroded	WvB	Williamsburg and Martinsville silt loams, 2 to 6 percent slopes
Gr	Gravel pits	WvC2	Williamsburg and Martinsville silt loams, 6 to 12 percent slopes, moderately eroded
		WvD2	Williamsburg and Martinsville silt loams, 12 to 18 percent slopes, moderately eroded

Attachment C4

Agency Information Request Responses

USFWS, September 14, 2001
ODNR, August 20, 2001
ODNR, June 14, 2006



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4132

(614) 469-6923/FAX (614) 469-6919
September 14, 2001

W. Christopher Young
Balke Engineers
1848 Summit Road
Cincinnati, OH 45237-2804

Dear Mr. Young:

This is in response to your August 14, 2001 letter requesting information we may have regarding the occurrence or possible occurrence of Federally-listed threatened or endangered species, or other comments relating to the fish and wildlife resources within the vicinity of the proposed Eastern Corridor Multi-Modal projects in Clermont and Hamilton Counties, Ohio.

In general, we recommend that any potential projects minimize water quality impacts and impacts to high quality fish and wildlife habitat, such as forests, streams, and wetlands. If streams and/or wetlands are involved, you should contact the Regulatory Branch of the Louisville District of the Corps of Engineers and the Ohio EPA for possible Section 404/401 permit requirements. Note that wetlands may exist on sites that are not designated wetland by the National Wetland Inventory.

ENDANGERED SPECIES COMMENTS: Clermont and Hamilton Counties lie within the range of the Indiana bat (*Myotis sodalis*), a Federally listed endangered species. Summer habitat requirements for the species are not well defined but the following are thought to be of importance:

1. Dead trees and snags, especially those with exfoliating bark or cavities in the trunk or branches which may be used as maternity roost areas.
2. Live trees (such as shagbark hickory) which have exfoliating bark.
3. Stream corridors, riparian areas, and nearby woodlots which provide forage sites.

Considering the above items, we recommend that if trees with exfoliating bark (which could be potential roost trees) are encountered in the project area, they and surrounding trees should be saved wherever possible. If they must be cut, they should not be cut between April 15 and September 15.

If desirable trees are present and if the above time restriction is unacceptable, mist net or other surveys should be conducted to determine if bats are present. The survey should be designed and conducted in coordination with the endangered species coordinator for this office. The survey should be conducted in June or July since the bats would only be expected in the project area from approximately April 15 to September 15.

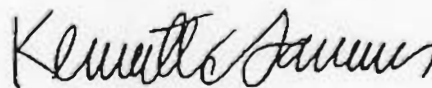
Clermont and Hamilton Counties are located within the range of the Federally endangered running buffalo clover (*Trifolium stoloniferum*). The clover is usually found in disturbed openings that are well mowed and/or partly shaded. The clover may be found on relatively open hilltops, in openings of mesic woods, or along paths or intermittent streams in or near mesic woods. We suggest that proposed transportation improvement corridors be checked for appropriate habitat. If appropriate habitat is present, surveys for the clover may be necessary to determine if the clover is present.

Hamilton County lies within the range of the bald eagle (*Haliaeetus leucocephalus*), a Federally-listed threatened species. We recommend that you contact the Ohio Division of Wildlife for the location(s) of the eagle nest(s) in the County. If any nests are located within ½ mile of the project site, further coordination with this office is necessary. If the nest is active, we recommend that work at the site be restricted from mid-January through July to allow pre-listing activities, incubation, and raising of the young.

This technical assistance letter is submitted in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Endangered Species Act, of 1973, as amended, and is consistent with the intent of the National Environmental Policy Act of 1969, and the U. S. Fish and Wildlife Service's Mitigation Policy.

If you have questions, or if we may be of further assistance in this matter, please contact Ken Lammers at extension 15 in this office.

Sincerely,



Kenneth C. Lammers
Acting Supervisor

cc: ODNR, Div. of Wildlife, Environmental Section, Columbus, OH



Ohio Department of Natural Resources

BOB TAFT, GOVERNOR

SAMUEL W. SPECK, DIRECTOR

Division of Natural Areas and Preserves

Stuart Lewis, Chief

1889 Fountain Square, Bldg. F-1

Columbus, OH 43224-1388

Phone: (614) 265-6453; Fax: (614) 267-3096

August 20, 2001

W. Christopher Young
Balke Engineers
1848 Summit Road
Cincinnati, OH 45237

Dear Mr. Young:

Per your request, enclosed please find an ASCII delimited file with our Natural Heritage Database records for the Eastern Corridor Multi-Modal project area on the Cincinnati East, Cincinnati West, Madeira, Goshen, Covington, Newport, Withamsville and Batavia Quads (#2111). The records are delimited by a carriage return, with the fields in each record delimited by a comma. There is a total of 180 records for these eight quads. I have also enclosed information on managed areas found within the study area.

Data provided are in the following order: latitude, longitude, locational accuracy code, year of the record, class code, federal status, state status, element occurrence number, scientific name, common name, and managed area name.

Locational accuracy codes, class codes and federal and state statuses are defined on an attached sheet. The element occurrence number is a code we use to differentiate between records of the same species. If you have a question about a particular record, we will need to know its element occurrence number.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For additional information on wetlands and National Wetlands Inventory maps, please contact Jim Given in the Division of Real Estate and Land Management at 614-265-6770.

Please contact me at 614-265-6818 if I can be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Debbie Woischke".

Debbie Woischke, Ecological Analyst
Support Services Group

**OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF NATURAL AREAS AND PRESERVES**

August 20, 2001

Eastern Corridor Multi-Modal Projects, Hamilton and Clermont Counties: Managed Areas

CINCINNATI WEST QUAD

Newberry Wildlife Sanctuary - Hamilton County Park District
Farbach Werner Nature Preserve - Hamilton County Park District
Winton Woods - Hamilton County Park District

CINCINNATI EAST QUAD

Little Miami State and National Scenic River - ODNR, Division of Natural Areas and Preserves
Wyoming Nature Preserve - The Nature Conservancy
Winton Woods - Hamilton County Park District

MADEIRA QUAD

Little Miami State and National Scenic River - ODNR, Division of Natural Areas and Preserves
Lake Isabella Park - Hamilton County Park District
Red Bird Hollow - The Nature Conservancy and Red Bird Hollow Association
Little Miami Golf Center - Hamilton County Park District
Avoca Park - Hamilton County Park District
Miamiville Access - ODNR, Division of Natural Areas and Preserves
Kelley Nature Preserve - Clermont County Park District
Kroger Hills Reserve - Hamilton County Park District

GOSHEN QUAD

Albers Park - Clermont County Park District

COVINGTON QUAD

Embshoff Woods - Hamilton County Park District

NEWPORT QUAD

Little Miami State and National Scenic River - ODNR, Division of Natural Areas and Preserves
Withrow Nature Preserve - Hamilton County Park District

WITHAMSVILLE QUAD

Withrow Nature Preserve - Hamilton County Park District
Woodland Mound Park - Hamilton County Park District

BATAVIA QUAD

East Fork State Park - ODNR, Division of Parks and Recreation
222 Roadside Park - Clermont County Park District
Sycamore Park - Clermont County Park District
Pattison Park - Clermont County Park District

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF NATURAL AREAS AND PRESERVES

August 20, 2001

File Documentation: Natural Heritage Database Records

File Type: comma delimited ASCII

File Name: Job#2111

Records: 180

Fields: Latitude - degrees, minutes, seconds (xxxxxxN)
Longitude - degrees, minutes, seconds (0xxxxxxW)
Locational accuracy code
Year of record
Class code
Federal status
Ohio status
Occurrence number
Scientific/Element name
Common name
Managed area



3.5" DATA Disc

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF NATURAL AREAS AND PRESERVES
NATURAL HERITAGE PROGRAM

STATUS CODES

Federal codes:

LE = Legal Endangered
LT = Legal Threatened
C1 = Candidate Species (for listing)

Ohio codes:

Animals: (assigned by the Division of Wildlife)

E = State Endangered
T = Threatened*
S = Special Interest*
X = Extirpated*

*Not a legal designation.

Animals without an Ohio status are inventoried by the Division of Natural Areas and Preserves but have not been assigned an official state status by the Division of Wildlife.

Plants: (assigned by the Division of Natural Areas and Preserves)

E = State Endangered
T = State Threatened
P = Potentially Threatened*
A = A species which was recently added to the Natural Heritage inventory. An endangerment status has not yet been determined.
X = Presumed Extirpated. Has not been collected in Ohio in the last 20 years.

*Not a legal designation.

LOCATIONAL ACCURACY CODES

C = exact location, circle on map
N = general location within a square mile, triangle on map
G = general location within greater than a square mile, square on map
P = population (usually fish or mollusks, some terrestrial animals)

Exactness is determined by the accuracy and detail of information provided by the surveyor.

CLASS CODES

SP = special plant
SA = special animal
PC = plant community
GF = geologic feature
OT = other (breeding or non-breeding animal concentration, champion tree)

A	A		B		C	D	E	F	G	H	I
	Common Name	Scientific Name	Fed State	Latitude	Longitude	Locational Accuracy Code	Year	Class Code			
1	RIVER BIRCH	BETULA NIGRA		390946N	0842442W	C	1997	OT			
2	BIGEYE SHINER	NOTROPIS BOOPS	T	391436N	0841204W	P	1995	SA			
3	BLACK-CROWNED NIGHT-HERON	NYCTICORAX NYCTICORAX	T	390640N	0843248W	N	1997	SA			
4	BLUE FALSE INDIGO	BAPTISIA AUSTRALIS	E	390155N	0840927W	C	1994	SP			
5	BLUE FALSE INDIGO	BAPTISIA AUSTRALIS	E	390158N	0840912W	C	1994	SP			
6	BLUE FALSE INDIGO	BAPTISIA AUSTRALIS	E	390203N	0840933W	C	1994	SP			
7	BLUE SUCKER	CYCLEPTUS ELONGATUS	E	390633N	0842406W	C	1993	SA			
8	BURBOT	LOTA LOTA	S	390827N	0842143W	N	1963	SA			
9	BURBOT	LOTA LOTA	S	390558N	0843000W	G	1960	SA			
10	BUTTERFLY	ELLIPSARIA LINEOLATA	E	390245N	0842325W	N	1965	SA			
11	BUTTERFLY	ELLIPSARIA LINEOLATA	E	390558N	0843000W	G	1964	SA			
12	BUTTERNUT	JUGLANS CINEREA	P	391358N	0843543W	N	1992	SP			
13	CAROLINA WILLOW	SALIX CAROLINIANA	T	391105N	0841720W	C	1991	SP			
14	CAROLINA WILLOW	SALIX CAROLINIANA	T	390955N	0841757W	C	1991	SP			
15	CAROLINA WILLOW	SALIX CAROLINIANA	T	390203N	0840933W	C	1991	SP			
16	CAROLINA WILLOW	SALIX CAROLINIANA	T	390158N	0840912W	C	1994	SP			
17	CAROLINA WILLOW	SALIX CAROLINIANA	T	390909N	0841829W	C	1991	SP			
18	AMERICAN HORNBEAM OR BLUE BEECH	CARPINUS CAROLINIANA		390827N	0842445W	N	1997	OT			
19	BITTERNUT HICKORY	CARYA CORDIFORMIS		390946N	0842442W	C	1997	OT			
20	CAVE SALAMANDER	EURYCEA LUCIFUGA	E	391329N	0843503W	N	196-	SA			
21	CAVE SALAMANDER	EURYCEA LUCIFUGA	E	390528N	0843444W	C	1993	SA			
22	CAVE SALAMANDER	EURYCEA LUCIFUGA	E	390928N	0843524W	C	1980	SA			
23	CAVE SALAMANDER	EURYCEA LUCIFUGA	E	390923N	0843511W	C	1975	SA			
24	CAVE SALAMANDER	EURYCEA LUCIFUGA	E	391444N	0843708W	P	1991	SA			
25	CININNATI CRAYFISH	CAMBARUS ORTMANNI		390058N	0840944W	N	1965	SA			
26	CININNATI CRAYFISH	CAMBARUS ORTMANNI		390323N	0841849W	N	1963	SA			
27	DEERTOE	TRUNCILLA TRUNCATA	S	391500N	0841723W	P	1991	SA			
28	DEERTOE	TRUNCILLA TRUNCATA	S	390853N	0841905W	P	1991	SA			
29	DEERTOE	TRUNCILLA TRUNCATA	S	391001N	0841614W	P	2001	SA			
30	DEERTOE	TRUNCILLA TRUNCATA	S	390112N	0841859W	C	1985	SA			
31	DEERTOE	TRUNCILLA TRUNCATA	S	390245N	0842325W	N	1965	SA			
32	PERSIMMON	DIOSPYROS VIRGINIANA		391044N	0842004W	N	1974	OT			
33	EASTERN HOGNOSE SNAKE	HETERODON PLATIRHINOS		390132N	0840838W	C	1991	SA			
34	EASTERN HOGNOSE SNAKE	HETERODON PLATIRHINOS		390022N	0840841W	C	1996	SA			
35	EASTERN HOGNOSE SNAKE	HETERODON PLATIRHINOS		390258N	0840807W	C	1995	SA			
36	EASTERN HOGNOSE SNAKE	HETERODON PLATIRHINOS		390104N	0840832W	C	1996	SA			
37	EASTERN HOGNOSE SNAKE	HETERODON PLATIRHINOS		390208N	0841917W	C	1984	SA			
38	EBONYSHELL	FUSCONAIA EBENA	E	390245N	0842325W	N	1965	SA			
39	EBONYSHELL	FUSCONAIA EBENA	E	390112N	0841859W	C	1985	SA			
40	ELEPHANT-EAR	ELLIPTIO CRASSIDENS		390245N	0842325W	N	1965	SA			
41	ELEPHANT-EAR	ELLIPTIO CRASSIDENS		390558N	0843000W	G	1964	SA			
42	ELEPHANT-EAR	ELLIPTIO CRASSIDENS		390919N	0841720W	C	1988	SA			
43	FALSE MAP TURTLE	GRAPTEMYS PSEUDOGEOGRAPHIC	S	390848N	0841944W	C	1991	SA			
44	FALSE MAP TURTLE	GRAPTEMYS PSEUDOGEOGRAPHIC	S	391440N	0841748W	C	1991	SA			
45	FAWNSFOOT	TRUNCILLA DONACIFORMIS	T	390934N	0841536W	P	2001	SA			
46	FAWNSFOOT	TRUNCILLA DONACIFORMIS	T	390827N	0842014W	P	1991	SA			
47	FAWNSFOOT	TRUNCILLA DONACIFORMIS	T	390827N	0842014W	P	1991	SA			

A	B	C	D	E	F	G	F.	I
48	FAWN-FOOT	TRUNCILLA DONACIFORMIS	T	390709N	0841232W	N	1973	SA
49	FAWNSFOOT	TRUNCILLA DONACIFORMIS	T	390439N	0841051W	C	1990	SA
50	FAWNSFOOT	TRUNCILLA DONACIFORMIS	T	391404N	0841814W	P	1991	SA
51	FERN-LEAF SCORPION-WEED	PHACELIA BIPINNATIFIDA	P	390313N	0842201W	C	1990	SP
52	FEW-FLOWERED TICK-TREFOIL	DESMIDIUM PAUCIFLORUM	P	390203N	0840933W	C	1994	SP
53	FEW-FLOWERED TICK-TREFOIL	DESMIDIUM PAUCIFLORUM	P	390812N	0842437W	N	2000	SP
54	FLAT FLOATER	ANODONTA SUBORBICULATA	S	390848N	0841950W	G	1991	SA
55	GREEN ASH	FRAXINUS PENNSYLVANICA		390817N	0842659W	N	1997	OT
56	BLUE ASH	FRAXINUS QUADRANGULATA		391322N	0842807W	N	1997	OT
57	CAROLINA SILVERBELL	HALESIA CAROLINA		391041N	0843153W	G	1974	OT
58	HICKORYNUT	OBOVARIA OLIVARIA	E	390245N	0842325W	N	1965	SA
59	KIRTLAND'S SNAKE	CLONOPHIS KIRTLANDII	T	391330N	0843334W	N	1970	SA
60	KIRTLAND'S SNAKE	CLONOPHIS KIRTLANDII	T	390716N	0843109W	C	1985	SA
61	KIRTLAND'S SNAKE	CLONOPHIS KIRTLANDII	T	390820N	0843104W	N	1985	SA
62	KIRTLAND'S SNAKE	CLONOPHIS KIRTLANDII	T	390730N	0843151W	N	1985	SA
63	KIRTLAND'S SNAKE	CLONOPHIS KIRTLANDII	T	390704N	0842947W	N	1985	SA
64	LARK SPARROW	CHONDESTES GRAMMACUS	E	391158N	0841648W	N	1988	SA
65	LOGGERHEAD SHRIKE	LANIUS LUDOVICIANUS	E	390627N	0842437W	N	1984	SA
66	MAYPOP	PASSIFLORA INCARNATA	T	391028N	0843000W	G	1979	SP
67	RIBES MISSOURIENSE	MISSOURI GOOSEBERRY	E	391418N	0840942W	C	1992	SP
68	MONKEYFACE	QUADRULA METANEVRA	E	390245N	0842325W	N	1965	SA
69	MONKEYFACE	QUADRULA METANEVRA	E	390112N	0841859W	C	1985	SA
70	MONKEYFACE	QUADRULA METANEVRA	E	390558N	0843000W	G	1964	SA
71	MOONEYE	HIODON TERGISUS	S	390617N	0842936W	P	1986	SA
72	MOONEYE	HIODON TERGISUS	S	391256N	0841852W	C	1983	SA
73	MOONEYE	HIODON TERGISUS	S	391018N	0841754W	C	1983	SA
74	MOONEYE	HIODON TERGISUS	S	390812N	0842054W	C	1983	SA
75	MOONEYE	HIODON TERGISUS	S	390633N	0842406W	C	1993	SA
76	MOUNTAIN MADTOM	NOTURUS ELEUTHERUS	E	390633N	0842406W	C	1993	SA
77	MOUNTAIN MADTOM	NOTURUS ELEUTHERUS	E	390815N	0842115W	C	1989	SA
78	NODDING RATTLESNAKE-ROOT	PRENANTHES CREPIDINEA	T	390653N	0841957W	C	1999	SP
79	NORTHERN HARRIER	CIRCUS CYANEUS	E	391132N	0840950W	N	1976	SA
80	NORTHERN MADTOM	NOTURUS STIGMOSUS	E	390922N	0842127W	N	1964	SA
81	OHIO PIGTOE	PLEUROBEMA CORDATUM	E	390035N	0841813W	C	1965	SA
82	OHIO PIGTOE	PLEUROBEMA CORDATUM	E	390112N	0841859W	C	1985	SA
83	OHIO PIGTOE	PLEUROBEMA CORDATUM	E	390558N	0843000W	G	1964	SA
84	OHIO PIGTOE	PLEUROBEMA CORDATUM	E	390245N	0842325W	N	1965	SA
85	EASTERN OR AMERICAN HOPHORNBEA	OSTRYA VIRGINIANA		391041N	0843153W	G	1974	OT
86	PINK PAPERSHELL	POTAMILUS OHIENSIS		390634N	0841158W	P	1990	SA
87	PINK PAPERSHELL	POTAMILUS OHIENSIS		390252N	0842429W	P	1965	SA
88	PINK PAPERSHELL	POTAMILUS OHIENSIS		390848N	0841957W	P	1991	SA
89	PINK PAPERSHELL	POTAMILUS OHIENSIS		390944N	0841708W	P	2001	SA
90	PRAIRIE WAKE-ROBIN	TRILLIUM RECURVATUM	P	390116N	0840853W	N	1990	SP
91	PURPLE WARTYBACK	CYCLONAIAS TUBERCULATA	S	390245N	0842325W	N	1965	SA
92	SCARLET OAK	QUERCUS COCCINEA		391022N	0842617W	N	1997	OT
93	SHINGLE OAK	QUERCUS IMBRICARIA		391127N	0842629W	C	1997	OT
94	SHINGLE OAK	QUERCUS IMBRICARIA		391041N	0843153W	G	1989	OT

A	B	C	D	E	F	G	I
95	BUR OAK			391402N	0842859W	N	1997 OT
96	RED-EARED SLIDER	QUERCUS MACROCARPA		390755N	0842216W	C	1991 SA
97	RED-EARED SLIDER	TRACHEMYS SCRIPTA ELEGANS		390845N	0841925W	C	1991 SA
98	RED-EARED SLIDER	TRACHEMYS SCRIPTA ELEGANS		391400N	0843533W	C	1991 SA
99	RED-EARED SLIDER	TRACHEMYS SCRIPTA ELEGANS		391450N	0841743W	C	1991 SA
100	RIVER DARTER	PERCINA SHUMARDI	T	390532N	0843338W	C	1986 SA
101	RIVER DARTER	PERCINA SHUMARDI	T	390656N	0842902W	P	1986 SA
102	RIVER REDHORSE	MOXOSTOMA CARINATUM	S	391018N	0841754W	C	1983 SA
103	RIVER REDHORSE	MOXOSTOMA CARINATUM	S	390633N	0842406W	C	1993 SA
104	RIVER REDHORSE	MOXOSTOMA CARINATUM	S	390719N	0842817W	C	1986 SA
105	RIVER REDHORSE	MOXOSTOMA CARINATUM	S	391332N	0841853W	P	1983 SA
106	RIVER REDHORSE	MOXOSTOMA CARINATUM	S	390728N	0841253W	P	1982 SA
107	RIVERBANK PASPALUM	PASPALUM FLUITANS	P	390118N	0841903W	C	1999 SP
108	RIVERBANK PASPALUM	PASPALUM FLUITANS	P	390148N	0841947W	C	1999 SP
109	RIVERBANK PASPALUM	PASPALUM FLUITANS	P	390246N	0842315W	C	1993 SP
110	RIVERBANK PASPALUM	PASPALUM FLUITANS	P	390449N	0842555W	C	1981 SP
111	RIVERBANK PASPALUM	PASPALUM FLUITANS	P	390600N	0843225W	C	1989 SP
112	ROUGH GREEN SNAKE	OPHEODRYS AESTIVUS	S	390136N	0840842W	C	1996 SA
113	ROUGH GREEN SNAKE	OPHEODRYS AESTIVUS	S	390159N	0841948W	N	1990 SA
114	ROUGH GREEN SNAKE	OPHEODRYS AESTIVUS	S	390131N	0840850W	C	1996 SA
115	RUNNING BUFFALO CLOVER	TRIFOLIUM STOLONIFERUM	LE E	390727N	0841435W	C	1998 SP
116	RUNNING BUFFALO CLOVER	TRIFOLIUM STOLONIFERUM	LE E	391039N	0841648W	C	1999 SP
117	RUNNING BUFFALO CLOVER	TRIFOLIUM STOLONIFERUM	LE E	391235N	0842014W	C	2001 SP
118	RUNNING BUFFALO CLOVER	TRIFOLIUM STOLONIFERUM	LE E	390219N	0841810W	C	1995 SP
119	RUNNING BUFFALO CLOVER	TRIFOLIUM STOLONIFERUM	LE E	391453N	0843651W	C	1997 SP
120	RUNNING BUFFALO CLOVER	TRIFOLIUM STOLONIFERUM	LE E	391449N	0843655W	C	1998 SP
121	SALAMANDER MUSSEL	SIMPSONAIAS AMBIGUA	S	390336N	0841044W	C	1990 SA
122	SALAMANDER MUSSEL	SIMPSONAIAS AMBIGUA	S	390709N	0841232W	N	1973 SA
123	SASSAFRAS ALBIDUM	SASSAFRAS		390920N	0842755W	N	1989 OT
124	SEDGE WREN	CISTOTHORUS PLATENSIS	E	391205N	0842532W	N	1975 SA
125	SHARP-SHINNED HAWK	ACCIPITER STRIATUS	S	391049N	0843428W	N	1978 SA
126	SHEEPNOSE	PLETHOBASUS CYPHIUS	E	390245N	0842325W	N	1965 SA
127	SILVER LAMPREY	ICHTHYOMYZON UNICUSPIS		390240N	0842230W	G	1964 SA
128	SLENDERHEAD DARTER	PERCINA PHOXOCEPHALA	S	391411N	0841754W	P	1974 SA
129	SLENDERHEAD DARTER	PERCINA PHOXOCEPHALA	S	390525N	0841129W	P	1980 SA
130	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390245N	0842310W	C	1993 SP
131	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390723N	0842755W	C	1985 SP
132	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390128N	0841918W	C	1989 SP
133	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390511N	0842548W	C	1981 SP
134	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390550N	0843012W	C	1986 SP
135	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390148N	0841947W	C	1999 SP
136	SMOOTH BUTTONWEED	SPERMACOCE GLABRA	P	390647N	0842635W	C	1981 SP
137	SMOOTH SOFTSHELL	APALONE MUTICA		390847N	0841929W	C	1991 SA
138	SORA	PORZANA CAROLINA	S	390849N	0841857W	N	1976 SA
139	SOUTHERN WAPATO	LOPHOTOCARPUS CALYCNINUS	P	390123N	0841153W	C	1989 SP
140	SOUTHERN WAPATO	LOPHOTOCARPUS CALYCNINUS	P	391333N	0843328W	C	1996 SP
141	SOUTHERN WOODRUSH	LUZULA BULBOSA	T	390259N	0840755W	C	1990 SP

A	B	C	D	E	F	G	I	J
142	SPR...j CORAL-ROOT	CORALLORHIZA WISTERIANA	P	390050N	0840902W	C	1990	SP
143	SPRING CORAL-ROOT	CORALLORHIZA WISTERIANA	P	391141N	0843341W	C	1991	SP
144	STOUT FLOATER	ANODONTA GRANDIS CORPULENTA	T	390709N	0841232W	N	1973	SA
145	THREEHORN WARTYBACK	OBLIQUARIA REFLEXA	T	390848N	0841950W	G	1991	SA
146	THREEHORN WARTYBACK	OBLIQUARIA REFLEXA	T	390245N	0842325W	N	1965	SA
147	THREEHORN WARTYBACK	OBLIQUARIA REFLEXA	T	390959N	0841603W	C	2001	SA
148	THREEHORN WARTYBACK	OBLIQUARIA REFLEXA	T	390112N	0841859W	C	1985	SA
149	THREEHORN WARTYBACK	OBLIQUARIA REFLEXA	T	390558N	0843000W	G	1964	SA
150	THREEHORN WARTYBACK	OBLIQUARIA REFLEXA	T	391500N	0841723W	P	1991	SA
151	AMERICAN ELM	ULMUS AMERICANA		391041N	0843153W	G	1989	OT
152	ROCK ELM	ULMUS THOMASII		390913N	0843153W	C	1989	OT
153	VIRGINIA MALLOW	SIDA HERMAPHRODITA	P	390324N	0842535W	C	1988	SP
154	VIRGINIA MALLOW	SIDA HERMAPHRODITA	P	390137N	0841927W	C	1988	SP
155	VIRGINIA MALLOW	SIDA HERMAPHRODITA	P	390557N	0843208W	C	1989	SP
156	WARTYBACK	QUADRULA NODULATA	E	390252N	0842429W	P	1965	SA
157	WARTYBACK	QUADRULA NODULATA	E	390822N	0842230W	N	1991	SA
158	WASHBOARD	MEGALONAIAS NERVOSA	E	390245N	0842325W	N	1965	SA
159	WAVY-RAYED LAMPUSSEL	LAMPSILIS FASCIOLA	S	390336N	0841044W	C	1990	SA
160		MIXED MESOPHYTIC FOREST		390443N	0842503W	C	1981	PC
161		MOLLUSK BED		390814N	0841419W	C	1990	OT
162		MIXED MESOPHYTIC FOREST		390310N	0842246W	C	1986	PC
163		MOLLUSK BED		390136N	0840851W	C	1990	OT
164		MOLLUSK BED		390951N	0841542W	C	2001	OT
165		MOLLUSK BED		390336N	0841044W	C	1990	OT
166		MOLLUSK BED		391403N	0841803W	N	1991	OT
167		MOLLUSK BED		390959N	0841603W	C	2001	OT
168		MOLLUSK BED		390439N	0841051W	C	1990	OT
169		OAK-MAPLE FOREST		390914N	0841937W	C	1981	PC
170		OAK-MAPLE FOREST		391447N	0843710W	C	1981	PC
171		MOLLUSK BED		391018N	0841754W	C	1991	OT
172		OAK-MAPLE FOREST		391208N	0842923W	C	1981	PC
173		MOLLUSK BED		391239N	0841736W	C	1991	OT
174		MOLLUSK BED		390946N	0841642W	C	2001	OT
175		CAVE OR CAVERN		390658N	0842129W	C	1986	GF
176		CAVE OR CAVERN		390703N	0842530W	C	1986	GF
177		MOLLUSK BED		390631N	0841124W	N	1990	OT
178		BLACK-CROWNED NIGHT-HERON COLONY		390640N	0843248W	N	1997	OT
179		BEECH-SUGAR MAPLE FOREST		390927N	0841936W	C	1986	PC
180		MOLLUSK BED		390522N	0841114W	N	1990	OT
181		MIXED MESOPHYTIC FOREST		391217N	0842930W	C	1981	PC

From: Woischke, Debbie [Debbie.Woischke@dnr.state.oh.us]
Sent: Wednesday, June 14, 2006 11:20 AM
To: Leopold, William
Subject: Natural Heritage Data

Attachments: sr.shx; data.dbf; data.sbn; data.sbx; data.shp; data.shx; ma.dbf; ma.sbn; ma.sbx; ma.shp; ma.shx; sites.dbf; sites.sbn; sites.sbx; sites.shp; sites.shx; sr.dbf; sr.sbn; sr.sbx; sr.shp

Dear Mr. Leopold:

Per your request, I have e-mailed you a set of ArcView shape files with our Natural Heritage Database records for the Eastern Corridor - Part B - Tier 2 Studies project ('data'), in Hamilton County and on the Cincinnati East, Cincinnati West, Madeira, Goshen, Covington, Newport, Withamsville and Batavia Quads (project #6052113). The projection is NAD83 Ohio South. Records included may be for rare and endangered plants and animals, geologic features, high quality plant communities and breeding and non-breeding animal concentrations. Fields included are scientific and common names, state and federal statuses, as well as managed area, date of the most recent observation and feature ID and elcode. The feature ID and elcode fields are codes we use to differentiate between records of the same species. State and federal statuses are defined as: E = endangered, T = threatened, P = potentially threatened, SC = species of concern, SI = special interest, FE = federal endangered and FT = federal threatened.

Also included are layers for managed areas ('ma') and scenic rivers ('sr'). The 'ma' layer includes state nature preserves, parks, forests and wildlife areas, national wildlife refuges, county metro parks, as well as sites owned by non-profit groups (such as The Nature Conservancy), museums (such as the Cleveland Museum of Natural History), and others. Please be aware that the managed areas layer may not be complete. We are continually updating this layer as additional information becomes available to us.

Another layer is of Conservation Sites ('sites'). These are sites deemed by the Division of Natural Areas and Preserves to be high quality natural areas not currently under formal protection. They may, for example, harbor one or more rare species, be an outstanding example of a plant community or have geologically significant features, etc. These sites may be in private ownership and our listing of them does not imply permission for access.

You may notice that some of the locations are represented by circles of two sizes. This represents the locational accuracy of the record, and can be translated as follows: an exact location = a circle with a 328 foot radius and a general location within a square mile = a circle with a half mile radius. As time allows, these circles will be edited into more appropriate shapes.

Our inventory program has not completely surveyed Ohio and relies on information supplied by many individuals and organizations. Therefore, a lack of records for any particular area is not a statement that rare species or unique features are absent from that area. Please note that although we inventory all types of plant communities, we only maintain records on the highest quality areas. Also, we do not have data for all Ohio wetlands. For National Wetlands Inventory maps, please contact Madge Fitak in the Division of Geological Survey at 614-265-6576.

Please contact me at 614-265-6818 if I can be of further assistance. I will send a hard copy of this letter along with the invoice.

Debbie Woischke, Data Specialist
Ohio Department of Natural Resources
Division of Natural Areas & Preserves
Natural Heritage Program
2045 Morse Rd., Bldg. F-1
Columbus, OH 43229

(phone) 614-265-6818
(fax) 614-267-3096
(e-mail) debbie.woischke@dnr.state.oh.us

FEATURE	EO_ID	EO_NUM	NAME_CATEG	EO_ID	SCIENCE_NA	COMMON_NAM	MANAGED_AR	LAST_OBSER	STATE_STAT	CONSERV_SI	FEDERAL_ST
1738	2798.000000	OMUSSEL000	Animal Assemblage	2798.000000	Mussel Bed			1990-07			
4564	10251.000000	OMUSSEL000	Animal Assemblage	10251.000000	Mussel Bed			1991-07-21			
4754	10726.000000	OMUSSEL000	Animal Assemblage	10726.000000	Mussel Bed			1990-07			
7536	1212.000000	OMUSSEL000	Animal Assemblage	1212.000000	Mussel Bed		EAST FORK STATE PARK	1990-07			
11772	4071.000000	OMUSSEL000	Animal Assemblage	4071.000000	Mussel Bed			1990-07			
13382	5097.000000	OMUSSEL000	Animal Assemblage	5097.000000	Mussel Bed			2007-03-11			
13486	5156.000000	OMUSSEL000	Animal Assemblage	5156.000000	Mussel Bed			1991-08-03			
13760	5338.000000	OMUSSEL000	Animal Assemblage	5338.000000	Mussel Bed			2001-03-11			
17514	7876.000000	OMUSSEL000	Animal Assemblage	7876.000000	Mussel Bed			1990-07			
18792	8743.000000	OMUSSEL000	Animal Assemblage	8743.000000	Mussel Bed			1990-07			
23464	11830.000000	OMUSSEL000	Animal Assemblage	11830.000000	Mussel Bed			2001-03-11			
24092	12248.000000	OMUSSEL000	Animal Assemblage	12248.000000	Mussel Bed			1991-07-22	SC		
542	10058.000000	IMBNV04130	Invertebrate Animal	10058.000000	Ancodonta suborbiculata	Flat Floater		1991-08			
5478	12654.000000	IMBNV09010	Invertebrate Animal	12654.000000	Cyclonaias tuberculata	Purple Wartyback		1965-08-09	SC		
406	7373.000000	IMBNV13010	Invertebrate Animal	7373.000000	Ellipsaria lineolata	Butterfly		1964-01	E		
4634	10390.000000	IMBNV13010	Invertebrate Animal	10390.000000	Ellipsaria lineolata	Butterfly		1965-08-09	E		
646	12242.000000	IMBNV14080	Invertebrate Animal	12242.000000	Ellipito crassidens	Elephant-ear		1964-01	E		
1678	2572.000000	IMBNV14080	Invertebrate Animal	2572.000000	Ellipito crassidens	Elephant-ear		1965-08-09	E		
24282	12372.000000	IMBNV14080	Invertebrate Animal	12372.000000	Ellipito crassidens	Elephant-ear		1988-06-16	E		
5532	12786.000000	IMBNV17060	Invertebrate Animal	12786.000000	Fusconaiia ebena	Ebonyshell		1965-08-09	E		
11904	4156.000000	IMBNV17060	Invertebrate Animal	4156.000000	Fusconaiia ebena	Ebonyshell		1985	E		
12922	4843.000000	IMBNV21070	Invertebrate Animal	4843.000000	Lampsalaias fasciola	Wavy-rayed Lamppussel	WOODLAND MOUND PARK	1990-07	SC		
2128	3765.000000	IMBNV29020	Invertebrate Animal	3765.000000	Megatonaias nervosa	Washboard		1965-08-09	E		
48	653.000000	IMBNV30010	Invertebrate Animal	653.000000	Obliquaria reflexa	Threehorn Wartyback		1991-08	T		
252	4130.000000	IMBNV30010	Invertebrate Animal	4130.000000	Obliquaria reflexa	Threehorn Wartyback		1964-01	T		
4970	11308.000000	IMBNV30010	Invertebrate Animal	11308.000000	Obliquaria reflexa	Threehorn Wartyback		1965-08-09	T		
6254	405.000000	IMBNV30010	Invertebrate Animal	405.000000	Obliquaria reflexa	Threehorn Wartyback		2007-03-11	T		
24708	12671.000000	IMBNV30010	Invertebrate Animal	12671.000000	Obliquaria reflexa	Threehorn Wartyback	WOODLAND MOUND PARK	1985	T		
25476	2608.000000	IMBNV30010	Invertebrate Animal	2608.000000	Obliquaria reflexa	Threehorn Wartyback		1991-07-21	T		
2956	6095.000000	IMBNV31020	Invertebrate Animal	6095.000000	Obovaria olivaria	Hickorynut		1965-08-09	X		
2610	5061.000000	IMBNV34030	Invertebrate Animal	5061.000000	Pleurobema cyphus	Sheepnose		1965-08-09	E		
536	9844.000000	IMBNV35090	Invertebrate Animal	9844.000000	Pleurobema cordatum	Ohio Pigtoe		1964-01	E		
1544	2153.000000	IMBNV35090	Invertebrate Animal	2153.000000	Pleurobema cordatum	Ohio Pigtoe		1965-08-09	E		
11984	4209.000000	IMBNV35090	Invertebrate Animal	4209.000000	Pleurobema cordatum	Ohio Pigtoe	WOODLAND MOUND PARK	1965-08	E		
15256	6316.000000	IMBNV35090	Invertebrate Animal	6316.000000	Pleurobema cordatum	Ohio Pigtoe		1985	E		
512	9238.000000	IMBNV39080	Invertebrate Animal	9238.000000	Quadrula metanetra	Monkeyface		1964-01	E		
1704	2688.000000	IMBNV39080	Invertebrate Animal	2688.000000	Quadrula metanetra	Monkeyface		1965-08-09	E		
8526	1881.000000	IMBNV39080	Invertebrate Animal	1881.000000	Quadrula metanetra	Monkeyface	WOODLAND MOUND PARK	1985	E		
4468	9958.000000	IMBNV39080	Invertebrate Animal	9958.000000	Quadrula nodulata	Wartyback		1991-08	E		
25474	2597.000000	IMBNV39090	Invertebrate Animal	2597.000000	Quadrula nodulata	Wartyback		1965-08-09	E		
4278	9476.000000	IMBNV41010	Invertebrate Animal	9476.000000	Simpsionaias ambigua	Salamander Mussel		1973-03	SC		
9866	2785.000000	IMBNV41010	Invertebrate Animal	2785.000000	Simpsionaias ambigua	Salamander Mussel		1990-07	SC		
5552	12832.000000	IMBNV45020	Invertebrate Animal	12832.000000	Truncilla donaciformis	Fawnsfoot		1973-03	T		
17394	7788.000000	IMBNV45020	Invertebrate Animal	7788.000000	Truncilla donaciformis	Fawnsfoot		1990-07	T		
25896	5031.000000	IMBNV45020	Invertebrate Animal	5031.000000	Truncilla donaciformis	Fawnsfoot		2007-03-11	T		
25804	6646.000000	IMBNV45020	Invertebrate Animal	6646.000000	Truncilla donaciformis	Fawnsfoot		1991-08-05	T		
26076	9636.000000	IMBNV45020	Invertebrate Animal	9636.000000	Truncilla donaciformis	Fawnsfoot		1991-07-22	T		
2638	5182.000000	IMBNV45040	Invertebrate Animal	5182.000000	Truncilla truncata	Deertoe		1965-08-09	SC		
17036	7544.000000	IMBNV45040	Invertebrate Animal	7544.000000	Truncilla truncata	Deertoe	WOODLAND MOUND PARK	1985	SC		
25354	1085.000000	IMBNV45040	Invertebrate Animal	1085.000000	Truncilla truncata	Deertoe		1991-08-05	SC		
25514	3045.000000	IMBNV45040	Invertebrate Animal	3045.000000	Truncilla truncata	Deertoe		2001-03-11	SC		
26116	10108.000000	IMBNV45040	Invertebrate Animal	10108.000000	Truncilla truncata	Deertoe		1991-07-21	SC		
23920	12135.000000	GF40_40500	Other (Ecological)	12135.000000	Cave or cavern			1986-02-09			
23922	12136.000000	GF40_40500	Other (Ecological)	12136.000000	Cave or cavern			1986-02-09			
14604	5891.000000	CO65_12000	Plant Community	5891.000000	Beech-sugar maple forest		KROGER HILLS PARK	1986-05			
8834	2109.000000	CO65_31000	Plant Community	2109.000000	Mixed mesophytic forest		CALIFORNIA WOODS NATUR	1981-09			
9420	2492.000000	CO65_31000	Plant Community	2492.000000	Mixed mesophytic forest		WITHROW NATURE PRESER	1986-06			
11662	4001.000000	CO65_31000	Plant Community	4001.000000	Mixed mesophytic forest			1981-09			
6162	342.000000	CO65_41000	Plant Community	342.000000	Oak-maple forest			1981-09			
8298	1720.000000	CO65_41000	Plant Community	1720.000000	Oak-maple forest			1981-09			
18272	8398.000000	CO65_41000	Plant Community	8398.000000	Acalypha virginica var. dt	Deam's Three-seeded Mercury	NEWBERRY WILDLIFE SANCT	1981-09			
10072	2928.000000	PDEUJ010L1	Plant	2928.000000	Aster antonionis	Bottomland Aster	KROGER HILLS PARK	2001-09-20	P		
52266	16657.000000	PDFAB030	Plant	16657.000000	Aster antonionis	Bottomland Aster		2005-10-25	P		
53645	16938.000000	PDFAB030	Plant	16938.000000	Aster antonionis	Bottomland Aster	WOODLAND MOUND PARK	2005-10-05	P		
6788	759.000000	PDFAB030	Plant	759.000000	Baptisia australis	Blue False Indigo	EAST FORK STATE PARK	1994-08-16	E		
18732	8700.000000	PDFAB030	Plant	8700.000000	Baptisia australis	Blue False Indigo	EAST FORK STATE PARK	1994-08-16	E		
22810	11396.000000	PDFAB030	Plant	11396.000000	Baptisia australis	Blue False Indigo	EAST FORK STATE PARK	1994-05-29	E		
16564	7216.000000	PWORC0M060	Plant	7216.000000	Corallorhiza wisteriana	Spring Coral-root	EAST FORK STATE PARK	1990-05	P		
20812	10046.000000	PWORC0M060	Plant	10046.000000	Corallorhiza wisteriana	Spring Coral-root	EAST FORK STATE PARK	1991-05-08	P		

FEATURE	EO_ID	ELCODE	EO_NUM	NAME_CATEG	EO_ID	SCIENCE_NA	COMMON_NAM	MANAGED_AR	LAST_OBSER	STATE_STAT	CONSERV_SI	FEDERAL_ST
3929	13914.000000	PWOR00M060	17.000000	Vascular Plant	13914.000000	Corallorhiza wisteriana	Spring Coral-root	MT. AIRY FOREST	2002-05	P		
4166	9191.000000	PDJUG02030	19.000000	Vascular Plant	9191.000000	Luglans cinerea	Butternut	FARBACH WERNER NATURE	1992-08-19	P		
39853	13907.000000	PDJUG02030	257.000000	Vascular Plant	13907.000000	Luglans cinerea	Butternut	CALIFORNIA WOODS NATUR	2001-05	P		
10342	3110.000000	PMJUN02040	7.000000	Vascular Plant	3110.000000	Luzula bulbosa	Southern Woodrush	EAST FORK STATE PARK	1990-06-16	T		
11150	3652.000000	PMPOA4P200	6.000000	Vascular Plant	3652.000000	Paspalum repens	Riverbank Paspalum		1993-10-26	P		
15786	6862.000000	PMPOA4P200	5.000000	Vascular Plant	6862.000000	Paspalum repens	Riverbank Paspalum		1989-09-21	P		
17810	8085.000000	PMPOA4P200	16.000000	Vascular Plant	8085.000000	Paspalum repens	Riverbank Paspalum		1995-09-04	P		
18476	8531.000000	PMPOA4P200	15.000000	Vascular Plant	8531.000000	Paspalum repens	Riverbank Paspalum		1995-09-04	P		
19668	9269.000000	PMPOA4P200	1.000000	Vascular Plant	9269.000000	Paspalum repens	Riverbank Paspalum		1981-10-08	P		
22	261.000000	PMPOA10080	8.000000	Vascular Plant	261.000000	Passiflora incarnata	Maypop		1979-09-11	T		
24622	12606.000000	PDHRO20100	26.000000	Vascular Plant	12606.000000	Phacelia bipinnatifida	Fern-leaved Scorpion-weed		1990-05-21	P		
8354	1757.000000	PDHRO20100	2.000000	Vascular Plant	1757.000000	Ribes missouriense	Missouri Gooseberry		2002-04-25	T		
20168	9612.000000	PMALU04040	21.000000	Vascular Plant	9612.000000	Sagittaria montevicensis	Southern Wapato		1996-10-19	P		
21250	10338.000000	PMALU04040	16.000000	Vascular Plant	10338.000000	Sagittaria montevicensis	Southern Wapato		1989-08-12	P		
8476	1840.000000	PDAL02010	13.000000	Vascular Plant	1840.000000	Salix caroliniana	Carolina Willow		1991-06-23	P		
13672	5271.000000	PDAL02010	15.000000	Vascular Plant	5271.000000	Salix caroliniana	Carolina Willow		1991-08-25	P		
15572	6537.000000	PDAL02010	12.000000	Vascular Plant	6537.000000	Salix caroliniana	Carolina Willow		1991-08-25	P		
22666	11304.000000	PDAL02010	6.000000	Vascular Plant	11304.000000	Salix caroliniana	Carolina Willow	EAST FORK STATE PARK	1991-07	P		
22754	11351.000000	PDAL02010	14.000000	Vascular Plant	11351.000000	Salix caroliniana	Carolina Willow		1991-07	P		
8758	2053.000000	PDMAL100C0	42.000000	Vascular Plant	2053.000000	Sida hermaphrodita	Virginia-mallow		1994-08-16	P		
17506	7870.000000	PDMAL100C0	40.000000	Vascular Plant	7870.000000	Sida hermaphrodita	Virginia-mallow		1988-10-17	P		
24268	12363.000000	PDMAL100C0	5.000000	Vascular Plant	12363.000000	Sida hermaphrodita	Virginia-mallow	WOODLAND MOUND PARK	1998-09-05	P		
6180	355.000000	PDRLB10020	10.000000	Vascular Plant	355.000000	Spermacoce glabra	Smooth Buttonweed		1993-10-26	P		
7368	1103.000000	PDRLB10020	31.000000	Vascular Plant	1103.000000	Spermacoce glabra	Smooth Buttonweed		1989-09-04	P		
10008	2887.000000	PDRLB10020	28.000000	Vascular Plant	2887.000000	Spermacoce glabra	Smooth Buttonweed	WOODLAND MOUND PARK	1989-09-04	P		
11994	4221.000000	PDRLB10020	8.000000	Vascular Plant	4221.000000	Spermacoce glabra	Smooth Buttonweed		1986-10-02	P		
12636	4660.000000	PDRLB10020	16.000000	Vascular Plant	4660.000000	Spermacoce glabra	Smooth Buttonweed		1981-10-08	P		
23570	11909.000000	PDRLB10020	17.000000	Vascular Plant	11909.000000	Spermacoce glabra	Smooth Buttonweed		1981-10-08	P		
25036	12884.000000	PDRLB10020	25.000000	Vascular Plant	12884.000000	Spermacoce glabra	Smooth Buttonweed		1985-07-30	P		
7640	1291.000000	PDFBA40250	11.000000	Vascular Plant	1291.000000	Trifolium stoloniferum	Running Buffalo Clover		2003-05-28	E		FE
10102	2945.000000	PDFBA40250	20.000000	Vascular Plant	2945.000000	Trifolium stoloniferum	Running Buffalo Clover		2001-05-10	E		FE
13114	4927.000000	PDFBA40250	21.000000	Vascular Plant	4927.000000	Trifolium stoloniferum	Running Buffalo Clover	AULT PARK	2001-09-21	E		FE
14962	6119.000000	PDFBA40250	4.000000	Vascular Plant	6119.000000	Trifolium stoloniferum	Running Buffalo Clover		1995-08	E		FE
15224	6291.000000	PDFBA40250	15.000000	Vascular Plant	6291.000000	Trifolium stoloniferum	Running Buffalo Clover		1999-08-20	E		FE
21360	10413.000000	PDFFB40250	14.000000	Vascular Plant	10413.000000	Trifolium stoloniferum	Running Buffalo Clover	CINCINNATI NATURE CENTE	2000-05-29	E		FE
53095	16781.000000	PDFFB40250	28.000000	Vascular Plant	16781.000000	Trifolium stoloniferum	Running Buffalo Clover		2005-05-17	E		FE
5524	12762.000000	PMLL20000	18.000000	Vascular Plant	12762.000000	Trillium recurvatum	Prairie Wake-robin	EAST FORK STATE PARK	1990-05	T		
4220	9369.000000	ABNKC12020	10.000000	Vertebrate Animal	9369.000000	Accipiter striatus	Sharp-shinned Hawk	MT. AIRY FOREST	1978-05	SC		
3528	7580.000000	ABPBX96010	10.000000	Vertebrate Animal	7580.000000	Chondestes grammacus	Ark Sparrow	MT. AIRY FOREST	1988-06-01	E		
1012	811.000000	ABNKC11010	2.000000	Vertebrate Animal	811.000000	Circus cyaneus	Northern Harrier		1976	E		SC
4610	10342.000000	ABPBG10010	3.000000	Vertebrate Animal	10342.000000	Cisothorus platensis	Sedge Wren		1975	SC		
1196	1284.000000	ARADB06010	14.000000	Vertebrate Animal	1284.000000	Cionophis kirtlandi	Kirtland's Snake		1985	T		
1376	1792.000000	ARADB06010	13.000000	Vertebrate Animal	1792.000000	Cionophis kirtlandi	Kirtland's Snake		1985	T		
1920	3250.000000	ARADB06010	11.000000	Vertebrate Animal	3250.000000	Cionophis kirtlandi	Kirtland's Snake	BURNET WOODS	1985	T		
3094	6445.000000	ARADB06010	12.000000	Vertebrate Animal	6445.000000	Cionophis kirtlandi	Kirtland's Snake		1970	T		
5718	57.000000	ARADB06010	3.000000	Vertebrate Animal	57.000000	Cionophis kirtlandi	Kirtland's Snake		1985	T		
23736	12020.000000	AFCJC04010	3.000000	Vertebrate Animal	12020.000000	Cyolepops elongatus	Blue Sucker		1993-09-30	E		
4666	10478.000000	AAAAD05050	3.000000	Vertebrate Animal	10478.000000	Eurycea lucifuga	Cave Salamander	EMBSHOFF WOODS & NATU	1993-07-07	E		
17360	7763.000000	AAAAD05050	7.000000	Vertebrate Animal	7763.000000	Eurycea lucifuga	Cave Salamander	MT. AIRY FOREST	1980-05	E		
18098	8284.000000	AAAAD05050	2.000000	Vertebrate Animal	8284.000000	Eurycea lucifuga	Cave Salamander	MT. AIRY FOREST	1975-09	E		
18352	8446.000000	AAAAD05050	1.000000	Vertebrate Animal	8446.000000	Eurycea lucifuga	Cave Salamander		1975-09	E		
26024	9118.000000	AAAAD05050	11.000000	Vertebrate Animal	9118.000000	Eurycea lucifuga	Cave Salamander	NEWBERRY WILDLIFE SANC	1991-09-11	E		
41369	14018.000000	AWA1H03020	40.000000	Vertebrate Animal	14018.000000	Felis rufus	Bobcat		2002-01-28	E		
8016	1536.000000	ARAAD05080	7.000000	Vertebrate Animal	1536.000000	Gepteryx pseudogeogr	False Map Turtle		1991-06	SC		
15854	6734.000000	ARAAD05080	5.000000	Vertebrate Animal	6734.000000	Gepteryx pseudogeogr	False Map Turtle		1991-06-09	SC		
1820	3021.000000	APBR01030	12.000000	Vertebrate Animal	3021.000000	Lamius ludovicianus	Loggerhead Shrike		1984-06	E		
52	725.000000	AFCMA01010	5.000000	Vertebrate Animal	725.000000	Loxia lola	Bobolink		1960	SC		
4298	9510.000000	AFCMA01010	4.000000	Vertebrate Animal	9510.000000	Loxia lola	Bobolink		1963-08	SC		
12262	4408.000000	AFCMC10040	42.000000	Vertebrate Animal	4408.000000	Moxostoma carinatum	River Redhorse		1983-09-27	SC		
16862	7419.000000	AFCMC10040	31.000000	Vertebrate Animal	7419.000000	Moxostoma carinatum	River Redhorse		1986-09	SC		
23048	11558.000000	AFCMC10040	38.000000	Vertebrate Animal	11558.000000	Moxostoma carinatum	River Redhorse		1993	SC		
25470	2562.000000	AFCMC10040	16.000000	Vertebrate Animal	2562.000000	Moxostoma carinatum	River Redhorse		1982-10-13	SC		
25922	7930.000000	AFCMC10040	44.000000	Vertebrate Animal	7930.000000	Moxostoma carinatum	River Redhorse		1983-09-27	SC		
25702	5178.000000	AFCJB28200	1.000000	Vertebrate Animal	5178.000000	Natropis boops	Bigeye Shiner		1995-07-14	T		
9458	2517.000000	AFCKA02040	9.000000	Vertebrate Animal	2517.000000	Naturus eleutherus	Mountain Madtom		1993-08-11	E		
12024	4247.000000	AFCKA02040	12.000000	Vertebrate Animal	4247.000000	Naturus eleutherus	Mountain Madtom		1995-09-04	E		
27818	12388.000000	AFCKA02040	13.000000	Vertebrate Animal	12388.000000	Naturus eleutherus	Mountain Madtom		1995-09-02	E		
27838	6293.000000	AFCKA02040	14.000000	Vertebrate Animal	6293.000000	Naturus eleutherus	Mountain Madtom		1995-09-03	E		
3860	8397.000000	AFCKA02220	2.000000	Vertebrate Animal	8397.000000	Naturus stigmus	Northern Madtom		1964-01	E		

FEATURE EO_ID	EO_ID	EO_NUM	NAME_CATEG	SCIENCE_NA	COMMON_NAM	MANAGED_AR	LAST_OBSER	STATE_STAT	CONSERV_SI	FEDERAL_ST
28379	8450.000000	14.000000	Vertebrate Animal	8450.000000	Naturus stigmoseus	Northern Madtom	1998-07-25	E		
28392	4238.000000	15.000000	Vertebrate Animal	4238.000000	Naturus stigmoseus	Northern Madtom	1998-10-14	E		
5014	11423.000000	3.000000	Vertebrate Animal	11423.000000	Nycticorax nycticorax	Black-crowned Night-heron	1987-07-30	T		
2438	4851.000000	20.000000	Vertebrate Animal	4851.000000	Ophiodiys aestivus	Rough Green Snake	1980-05	SC		
15292	6346.000000	24.000000	Vertebrate Animal	6346.000000	Ophiodiys aestivus	Rough Green Snake	1996-09-18	SC		
23828	12070.000000	23.000000	Vertebrate Animal	12070.000000	Ophiodiys aestivus	Rough Green Snake	1996-04-20	SC		
8434	1808.000000	6.000000	Vertebrate Animal	1808.000000	Percina shumardi	River Darter	1986-09	T		
25662	4692.000000	5.000000	Vertebrate Animal	4692.000000	Percina shumardi	River Darter	1986-09-24	T		
870	527.000000	6.000000	Vertebrate Animal	527.000000	Porzana carolina	Sora	1976-07	SC		

Attachment C5

Ecological Resources Coordination

USFWS, December 14, 2004
OEPA, November 22, 2004
ODNR, November 15, 2004
USACOE, October 26, 2004
USACOE, February 21, 2008



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
6950 Americana Parkway, Suite H
Reynoldsburg, Ohio 43068-4127

(614) 469-6923
FAX (614) 469-6919

December 14, 2004

RECEIVED

DEC 27 2004

OFFICE OF
ENVIRONMENTAL SERVICES

Timothy M. Hill
Office of Environmental Services
Ohio Department of Transportation
P.O. Box 899
Columbus, OH 43216-0899

Re: CLE-IR275-10.40

Dear Mr. Hill:

This is in response to your Ecological Survey Report (ESR) and accompanying letter of October 18, 2004, requesting concurrence or comments on your determination of effects for Federally listed species resulting from the above-referenced project. The project consists of improvement of the IR 275/SR32 interchange in Clermont County. The purpose of the project is to improve safety and capacity at the interchange and adjacent portions of SR 32. Aquatic resource impacts include 0.19 acre of six Category 1 wetlands, and 2,025.7 linear feet of stream caused by stream relocations and culvert lengthening. Proposed impacts also include 5.5 acres of wooded habitat, including riparian and upland woodlots, and fence rows. Approximately forty trees exhibiting characteristics of Indiana bat summer roosts would be removed during project construction. These trees would only be cut between September 15 and April 15, to avoid impacting bats during the summer roosting period (per conversation with Chris Staron, 11-23-04).

The Service recommends that impacts to Hall Run be avoided, except for those resulting from culvert extension needed to widen State Route 32. Any necessary improvements to Old State Route 72 and/or Rust Lane should be conducted in a manner to prevent further impacts to this perennial stream (designated Warmwater Habitat). Any unavoidable impacts to streams and wetlands should be properly mitigated to replace all lost functions of the impacted resource.

You have determined that the proposed project **may affect, but is not likely to adversely affect**, the Federally endangered **Indiana bat**. Impacts would occur to approximately 40 trees that exhibit characteristics of suitable summer roosts, some of which could be suitable for maternity colonies. However, most trees are along major roads (Interstate 275, and State Route 32), which likely limits their potential as important roosts for Indiana bats. These trees would only be removed during the non-roosting period between September 15 and April 15. Because impacts are limited to areas along right of way for existing major roads, these impacts will not result in further fragmentation of suitable roosting or foraging habitat. Stream and wetland fills would also occur, however, most of these are restricted to limited-quality resources, and, as with the forest impacts, the majority of aquatic resource impacts would occur in or directly adjacent to the existing right of way. You have also submitted aerial photographs that show forest patches and forested stream corridors in the areas surrounding the proposed project, and you have indicated that the suitable roost trees to be impacted by the project are only a small percentage of the

that the suitable roost trees to be impacted by the project are only a small percentage of the available roosting habitat in the immediate area. In addition, no known records for Indiana bats occur within five miles of the proposed project area. Because on-site roosting and foraging habitat is limited and will only be impacted adjacent to existing right of way, no fragmentation of existing habitat is to occur, undisturbed habitat is available in the surrounding area, and no records of Indiana bats are located within 5 miles, the **Service concurs that the project, as proposed, is not likely to adversely affect the Indiana bat.**

You have determined that the proposed project will have no effect on the Federally-endangered **running buffalo clover**. John Baird has reviewed the ESR and stated that based on his knowledge and past sampling in the area, there is no suitable habitat for the species within the project site. The Service agrees that no effects to the running buffalo clover would be expected as a result of the proposed project.


You have determined that the project would have no effect on the **rayed bean** and **sheepnose mussel**, two Federal Candidate species. This determination was made because no suitable habitat for these species is located within the study area. Although no concurrence from the Service is required when an action agency determines that a project will have **no effect** on a listed species, we encourage you to account for indirect impacts when making effects-determinations. For example, although no rayed bean would be expected in the immediate project area, rayed bean may be found downstream of this site in suitable habitat. Effects of the proposed activities, such as temporary increases in sedimentation, and long term changes in the stream hydrograph and pollutant-loading resulting from road run-off, can affect the rayed bean and other mussels downstream. These types of indirect impacts should be considered when determining the effects of a proposed action on listed species.

In summary, the Service concurs with your determination that the proposed project is not likely to adversely affect the Indiana bat. Our concurrence is not required for your determinations of no effects to listed species (running buffalo clover, sheepnose mussel, rayed bean mussel), however, indirect impacts should be evaluated before effects-determinations are made. In addition, we recommend that project plans be designed to avoid impacts to Hall Run resulting from upgrades to Old State Route 74 and Rust Lane.

Should additional information on listed or proposed species or their critical habitat become available or if new information reveals effects of the action that were not previously considered, this concurrence may be reconsidered. If project plans change or if portions of the proposed project were not evaluated, it is our recommendation that you contact our office for further review.

This technical assistance letter is submitted in accordance with provisions of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Endangered Species Act, of 1973, as amended, and is consistent with the intent of the National Environmental Policy Act of 1969, and the U. S. Fish and Wildlife Service's Mitigation Policy. If you have questions, or if we may be of further assistance in this matter, please contact Jeromy Applegate at extension 21 in this office.

Sincerely,


for Mary Knapp, Ph.D.
Supervisor

cc: ODNR, DOW, SCEA Unit, Columbus, OH



STREET ADDRESS:

Lazarus Government Center
122 S. Front Street
Columbus, Ohio 43215

TELE: (614) 644-3020 FAX: (614) 644-3184

MAILING ADDRESS:

P.O. Box 1049
Columbus, OH 43216-1049

November 18, 2004

Timothy M. Hill, Administrator
Ohio Department of Transportation
Office of Environmental Services
PO Box 899
Columbus, Ohio 43216-0899

RECEIVED

NOV 22 2004

OFFICE OF
ENVIRONMENTAL SERVICES

**Re: Ecological Coordination (Pre-Application)
Ecological Survey Report: Level 1
CLE-IR275-10.40, PID 22972**

Dear Mr. Hill:

We wish to thank you for submitting the above -referenced Ecological Survey Report (Level 1) for our review. We received this document in our office on October 25, 2004.

The report provides ecological information on a project (preliminary Preferred Alternative) ODOT is proposing that involves improvements to the Interstate 275/State Route (SR) 32 interchange, and the consolidation and management of access along a section of SR 32 in Union Township, Clermont County, Ohio. Construction activities will result in an estimated 2,052.7 linear feet of stream impacts and 0.19 acres of wetland impacts.

Based on the scale and nature of the estimated impacts to the aquatic resources described in the report, our rules require Individual 401 water quality certification (WQC) for the project. A definitive decision will be based on our receipt and review of the Army Corps of Engineers (Louisville District) jurisdictional and regulatory information on the proposal, as usual.

Other than a few quality aquatic resources identified within the project area, most of the estimated impacts to aquatic resources appear to be minor and associated with habitat disturbed by transportation or human-related activities. However, we encourage ODOT to consider additional refinements to the preliminary Preferred Alternative to lower direct and indirect impacts to ecological resources, especially wooded habitats, Class II PHWH streams, and Hall Run. Please accept our brief comments on the proposal:

1. We would appreciate clarification as to the purpose of study area established east of Gleneste-Withamsville Road (Exhibits 1b, 3e), especially the irregular segments north and south of SR 32 containing Woodlot A and Woodlot B, respectively. With

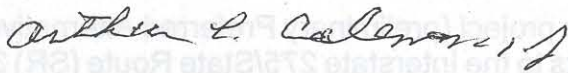
Bob Taft, Governor
Jennette Bradley, Lieutenant Governor
Christopher Jones, Director

Timothy M. Hill, Administrator, OES
Ohio Department of Transportation
Ecological Survey Report: Level 1
CLE-IR275-10.40, PID 22972
Page 2 of 2

- respect to the diagrams, the boundaries of the north and south segments do not seem to contain existing or proposed roadway or transportation-related facilities (except for the southern-most tip of the south segment). Are any project construction activities and ecological impacts planned within the boundaries of these segments?
2. Will any of the relocated segments of impacted streams be restored or used in on-site compensatory mitigation?
 3. Are there any opportunities for conducting compensatory mitigation and establishing conservation easements in Woodlots A and B?

We appreciated the opportunity to review the survey report. If you would like a further discussion with me on the proposal, contact me at (614) 644-2138.

Sincerely,



Arthur L. Coleman, Jr.
Environmental Specialist
Division of Surface Water

cc: Max Hagan, Louisville District, USACOE/Ohio Field Office (Cincinnati)
William Cody, Asst. Administrator, OES/ODOT
Mike Pettegrew, Supervisor, OES/ODOT
Megan Michael, OES/ODOT
Kenneth Lammers, USFWS
Mary Knapp, USFWS
Randy Sanders, ODER
Diana Zimmerman, Ohio EPA/SWDO

From: Keith Smith [Keith.Smith@dot.state.oh.us]
Sent: Wednesday, November 17, 2004 8:36 AM
To: Osborne, Deborah
Subject: Fw: 04-0255; ODOT EC CLE-IR275-10.40 (PID 22972)

Deb,

These just came in.

Thanx,

Keith

Keith Smith, P.E.
Environmental Engineer, ODOT D-8
Keith.Smith@dot.state.oh.us
1-800-831-2142 or 513-933-6590
----- Forwarded by Keith Smith/Planning/D08/ODOT on 11/17/2004 08:34 AM -----

Chris Staron
11/17/2004 08:07 AM
To: Keith Smith/Planning/D08/ODOT@ODOT, Hans Jindal/Planning/D08/ODOT@ODOT, Mark Clark/Planning/D08/ODOT@ODOT
cc:
Subject: Fw: 04-0255; ODOT EC CLE-IR275-10.40 (PID 22972)

Here are ODNr's comments on the subject project, if you have any questions or comments, please contact me.

Thanks

Chris

----- Forwarded by Chris Staron/Environmental/CEN/ODOT on 11/17/2004 08:04 AM -----
"Sanders, Randy" <Randy.Sanders@dnr.state.oh.us>
11/15/2004 04:19 PM
To: <megan.michael@dot.state.oh.us>, <chris.staron@dot.state.oh.us>
cc: <fredric.steck@dot.state.oh.us>
Subject: 04-0255; ODOT EC CLE-IR275-10.40 (PID 22972)

ODNR COMMENTS TO ODOT, Ecological Coordination CLE-IR275-10.40 (PID 22972)

Location: Western Clermont County and extends along existing SR 32 and I-275 in the Eastgate area.

Project: Includes safety, access and capacity improvements to the I-275/SR 32 Interchange and an approximately 2.5 mile segment of State Routes 32. Proposed improvements involve modifying the configuration of the existing I-275/SR 32 and Eastgate Boulevard interchanges, and consolidating and managing access along SR 32. The project also includes improved access at Bells Lane/ SR 32 and Glen-Este-Withamsville Road/SR 32, a new connection of Aicholtz Road Under I-275, elimination of Old SR 74/SR 32 intersection, and construction of an Old SR 74 overpass over SR 32 to connect with Aicholtz Road.

The Ohio Department of Natural Resources (ODNR) has completed a review of the above referenced project. These comments were generated by an inter-disciplinary review within the Department. These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the National Environmental Policy Act, the Coastal Zone Management Act, Ohio Revised Code and other applicable laws and regulations. These comments are also based on ODNR's experience as the state natural resource management agency and do not supersede or replace the regulatory authority of any local, state or federal agency nor relieve the applicant of the obligation to comply with any local, state or federal laws or regulations.

Rare and Endangered Species: The ODNR Natural Heritage Database contains no new or additional data to report and no other comments.

Fish and Wildlife: Provided mitigation is provided for the unavoidable impacts to streams and wetlands, the ODNR, Division of Wildlife has no comments regarding this project. Work should be done in such a way that it does no impact mussels or their habitat.

ODNR appreciates the opportunity to provide these comments. Please contact Randy Sanders at 614.265.6344 if you have questions about these comments or need additional information.

Randall E. Sanders

Environmental Administrator

Division of Real Estate & Land Management

Ohio Department of Natural Resources

2045 Morse Rd, C4

Columbus, Ohio 43229-6693

614.265.6344

Fax 614.267.4764

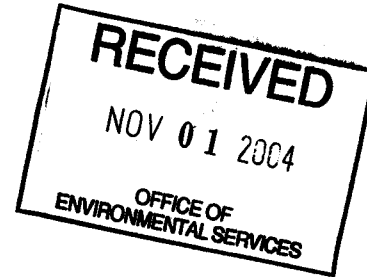
randy.sanders@dnr.state.oh.us



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS, OHIO FIELD OFFICE
10557 MCKELVEY ROAD
CINCINNATI, OHIO 45240-3929
<http://www.lrf.usace.army.mil>

October 26, 2004

Operations Division
Regulatory Branch (North)
ID No. 200401374-cmh



Mr. Timothy M. Hill
Ohio Department of Transportation
Post Office Box 899
Columbus, OH 43216-0899

Dear Mr. Hill:

This is in regard to your letter of transmittal dated October 18, 2004, enclosing a Level I Ecological Survey Report for the proposed Interstate Route 275 and State Route 32 interchange improvement project (PID 22972) in Clermont County, Ohio.

The Corps of Engineers exercises regulatory authority under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) and Section 404 of the Clean Water Act (33 USC 1344). The data you furnished indicate authorizations under Section 404 may be required before you begin the work. However, the information given is insufficient for us to be certain of the need for permits on this particular proposal. We will need additional detail on the project design, scope, and construction methods in order to determine whether a Department of the Army (DA) permit is required.

Authorization pursuant to Section 404 is required for the placement of dredged or fill material into any "waters of the United States." This includes the Salt Run and Hall Run, unnamed tributaries to these streams and to Shayler Run extending into the headwaters and any jurisdictional adjacent wetlands in the survey area. These streams may be perennial, intermittent, or ephemeral having defined bed-and-bank features with an ordinary high water mark.

Jurisdictional wetland determinations need to be conducted in accordance with the 1987 Corps of Engineers Manual and supplemental data. Adjacency is indicated as being contiguous, bordering, or neighboring jurisdictional streams. We will implement regulation of isolated wetlands only with a substantiated interstate commerce nexus.

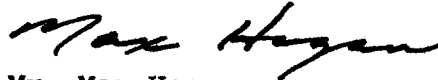
The avoidance, minimization, or potential mitigation will be required to minimize adverse impact to aquatic resources. This scoping process should be included in the alternative analysis and the feasible alternative selection process. Appurtenances such as access roads, staging areas, and borrow sites require review along with construction activities.

We do not concur with the inclusiveness of the report of investigations and findings provided for our review for a jurisdictional determination of streams and wetlands subject to the provisions of Section 404. Waters of the United States generally do not include upland drainage ditches or artificial lakes and ponds created by excavating and/or diking dry land. We will be available to meet with you, representatives from your office, and/or your consultants so that we may verify onsite jurisdiction determinations and delineations once you have developed a conceptual project plan.

It is best to ultimately submit a formal DA permit application once the feasible alternative selection process is completed. Should an individual permit be required, we can then begin processing your request immediately. Enclosed is a packet that contains the information and forms needed to apply for a DA permit. You are reminded that all drawings must be submitted on 8½- by 11-inch paper and be of reproducible quality. Please allow sufficient time for the processing of the permit application.

Thank you for the opportunity to review and comment on this ecological survey report. This proposal has been assigned our Identification Number 200401374. Please reference this number on all correspondence pertaining to this project. If we can be of further assistance, please contact this office by writing to the above address or by calling me at 513-825-1901.

Sincerely,



Mr. Max Hagan
Team Leader
Ohio Field Office

Enclosure

Copy Furnished: ODOT (Tatman)



DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

February 21, 2008

Operations and Readiness Division
Regulatory Branch
Hall Run and UnTribs to Salt Run – 2007-385-ELM
CLE-275-10.15, PID: 76289

Timothy M. Hill
Office of Environmental Services
Ohio Department of Transportation
Post Office Box 899
Columbus, Ohio 43216-0899

Dear Mr. Hill:

This letter is in response to the Level 1 Ecological Survey Report (ESR) received by this office on May 2, 2007 requesting comments and jurisdictional determinations for water resources located within the study area of the proposed roadway upgrades to the IR-275 and SR-32 Interchange and the extension of Old SR 74 located in Union Township, Clermont County, Ohio.

The Corps of Engineers' authority to regulate waters of the United States is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act requires that a Department of the Army (DA) permit be obtained prior to placing dredged or fill material into waters of the United States, including wetlands. Section 10 of the Rivers and Harbors Act of 1899 requires that a DA permit be obtained for any work in, on, over or under a navigable water.

Based on the information provided and site visit conducted on August 1, 2007, it has been determined that Wetland 50 (0.08 ac) and Wetland 57 (0.06 ac) abut the relatively permanent water (RPW) identified as Unnamed Tributary (UT) 7; RPWs 6 and 7 are tributaries to Hall Run (RPW), which is a direct tributary to the East Fork of the Little Miami River, a traditional navigable water (TNW); RPWs 16, 19, 20, and 24 are tributaries to Salt Run, which is also a direct tributary to the East Fork of the Little Miami River; and non-RPW 18, an indirect tributary to Salt Run, was determined to exhibit a significant nexus to the East Fork of the Little Miami River. In addition, the open-water area identified as Pond 1 was determined to be an impoundment of UT 7. Therefore, Hall Run, the streams listed above, Pond 1, and Wetlands 50 and 57 are subject to regulation under Section 404 of the CWA.

Wetlands 16 (0.03 ac), 17 (0.01 ac) and 56 (0.005 ac) are surrounded by upland and are not part of a surface water tributary system of a water of the United States. Based on the absence of

a hydrological connection or adjacency to a water of the United States, these wetlands were determined to be isolated waters. Isolated waters are only regulated under Section 404 of the Clean Water Act when the use, degradation or destruction of which could affect interstate or foreign commerce. These wetlands exhibit no apparent connection to interstate or foreign commerce and are therefore, not subject to the provisions of Section 404 of the CWA. However, you should contact Mr. Arthur Coleman with the Ohio Environmental Protection Agency, Division of Surface Water at 614-644-2001, to determine state permitting requirements for isolated wetlands.

Finally, open water areas identified as Ponds 2 and 3 were determined to be artificial decorative features created by excavating and/or diking dry land as part of a go-cart and miniature golf course. Ponds 2 and 3 are not waters of the U.S.

This determination has been conducted to identify the limits of the Corps of Engineers' Clean Water Act jurisdiction for the sites identified within the study area of the ESR. This jurisdictional verification is approved and is valid for a period of five years from the date of this letter unless new information warrants revision of the delineation prior to the expiration date. Should you disagree with our jurisdictional determination, you have the right to file an administrative appeal under the Corps regulations at 33 CFR Part 331.

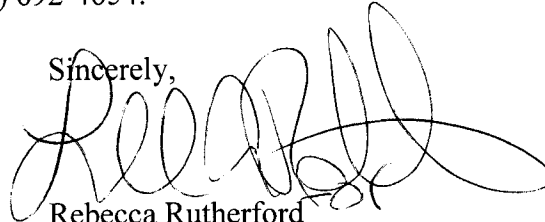
Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination, you must submit a completed RFA form to the Great Lakes and Ohio River Division Office at the following address:

Mr. Mike Montone
Great Lakes and Ohio River Division
550 Main Street, Room 10032
Cincinnati, Ohio 45202-3222
Phone: (513) 684-6212

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by **April 21, 2008**. **It is not necessary to submit an RFA form to the Division office if you do not object to the determination in this letter.**

This determination has been conducted to identify the limits of the Corps of Engineers' Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are United States Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service (NRCS), prior to starting work.

If you have any questions concerning the above, please contact Peter Clingan of the Ohio Regulatory Transportation Office at (614) 692-4654.

Sincerely,

Rebecca Rutherford
Chief, North Regulatory Section

Enclosures

Copy Furnished w/o enclosure via email:

Mr. Art Coleman
Ohio Environmental Protection Agency
Division of Surface Water
P.O. Box 1049
Columbus, Ohio 43215

Mr. Ric Queen
Ohio Environmental Protection Agency
Division of Surface Water
P.O. Box 1049
Columbus, Ohio 43215

Mr. Michael Pettegrew
Office of Environmental Services
Ohio Department of Transportation
Post Office Box 899
Columbus, Ohio 43216-0899

Mr. Donald Rostofer
Office of Environmental Services
Ohio Department of Transportation
Post Office Box 899
Columbus, Ohio 43216-0899