

### PORTSMOUTH EM SITE SPECIFIC ADVISORY BOARD

•OSU Endeavor Center• 1862 Shyville Road • Piketon, Ohio 45661 • (740) 289-5249 •

#### Proposed Agenda for the July 11, 2013 Board Meeting

Chair

William E. Henderson II

Vice Chair

Val E. Francis

**Board Members** 

Shirley A. Bandy

Al Don Cisco Martha A. Cosby

Ervin S. Craft

Franklin H. Halstead

Adrian C. Harrison

Carl R. Hartley

Brian F. Huber

Sharon E. Manson

Daniel J. Minter

Michael E. Payton

Richard H. Snyder

Brandon K. Wooldridge

Connie E. Yeager

Kathy J. Zimmerman-Woodburn

Deputy Designated Federal Official

Joel Bradburne

**DOE Federal Coordinator** 

Greg Simonton

6 p.m.

Call to Order, Introductions

Review of Agenda

Approval of May Minutes

**DDFO Comments** 

--15 minutes

**Federal Coordinator Comments** 

--10 minutes

**Liaison Comments** 

--10 minutes

**Presentation** 

--25 minutes

 PORTS Habitat Resource Inventory Summary of Field Work, Data Collection, and Analysis-Gary Conley. Ohio University (OU)

**Administrative Issues** 

--25 minutes

• Review of SSAB Communications Plan

**Draft Recommendation 13-03** 

• Public Comments on Recommendation 13-03

Board Comments on Recommendation 13-03

**Draft Recommendation 13-04** 

Public Comments on Recommendation 13-04

• Board Comments on Recommendation 13-04

**Subcommittee Updates** 

-- 5 minutes

**Public Comments** 

--15 minutes

**Final Comments from the Board** 

--10 minutes

**Adjourn** 

Support Services EHI Consultants, Inc. 1862 Shyville Road Piketon, OH 45661 Phone 740.289.5249 Fax 740.289.1578

# DEPUTY DESIGNATED FEDERAL OFFICIAL PRESENTATION

Joel Bradburne, Site Lead U.S. Department of Energy



Portsmouth Site Specific Advisory Board July 11, 2013

### **Agenda**

- Plant Updates
- Regulatory Progress
- Community Outreach
- Upcoming Events









## Plant Updates/X-744G Operations Achieves 1000 Drums Overpacked, No Safety Issues



### Groundwater Remediation

	TO A VINEY		
	Building	Treated FY2013 to March 23	TCE Removed FY13 -March 23
X-624 X-627	→ X-624	2,573,000 Gallons	134 lbs
	X-623	21,000 Gallons	0.1 lbs
X-622	X-627	6,844,000 Gallons	133 lbs
	∡ X-622	10,737,000 Gallons	16 lbs





### Regulatory Progress: Submittals to Ohio EPA

#### D&D

- Submitted the DFF&O Quarterly Report for the 1st Quarter.
- Submitted the X-600 Complex Removal Action Work Plan.
- •Submitted the X-624-1, the X-744S, the X-102 and the X-106 Removal Action Work Plans.
- •Submitted the revised Ohio EPA RTCs for the X-100 Removal Action Completion Report.
- •Submitted the X-100 Removal Action Completion Report D2 R4.

### Soil and Groundwater

•Received Ohio EPA approval on the Technical Memorandum for the X-749, X-120 Area Ground Water Optimization Project, D2 R2.

### Waste Disposition

• Submitted the OSDC Preliminary Clay Liner Cap TPWP, D2 RH.







### Community Outreach





### Community Outreach

### Wellness and Safety Expo Coming July 17!

Members of the surrounding community are invited to attend.

Health Screenings and wellness and safety demonstrations will be available for all attendees.



Date: Wednesday, 07/17/2013 (rain or shine)

Time: 10 a.m. to 2 p.m.

X-206B South Parking Lot. A large tent will be installed.

Portable restrooms will be available.









DOE welcomed Ed Gortner, manager of the Division of Emergency and Remedial Response for Ohio, with the Ohio EPA and Jim Sferra, Chief, Ohio EPA Southeast District for a Tour May 9.

Community Outreach

National
Group of
State
Legislators
Tours
PORTS



### **D&D Project Economic Impact:**

**Building a Stronger Economy for Southern Ohio** Examples, 9/2010 - 5/2013



Regional Purchasing/Subcontract Goal

\$75 Million **Actual Dollars Spent** \$195 Million

Contributions to **Community Groups** \$145,000

**Local Companies Awarded Contracts** 

**107 Companies** 

The economic stimulus of the D&D Project reaches beyond the site's borders to the four-counties surrounding the site.

#### **Local Business Growth Awards**



**Total Dollars Awarded** \$100,000

Contributions to Education







### Community Outreach Calendar



Jackson County Fair
July 12-20
Jackson Co Fair Grounds



Wellness and Safety Expo Wednesday, July 17



Pike County Fair
July 29 – Aug 3
Pike Co Fair Grounds

If you have a Community Event you'd like us to be a part of please contact Deneen Revel @ deneen.revel@fbports.com



### **Upcoming Site Events**



Site Public Tour Saturday, July 20



SSAB Executive Planning Session
August 23-24, Deer Creek State Park



Educator Workshop Wednesday, August 7 (tentative)



Media Day August/September (date TBD)



# PORTS Habitat Resource Inventory Summary of Field Work, Data Collection, and Analysis

# Voinovich School of Leadership and Public Affairs

Presented by Gary Conley



### Habitat Characterization Study Area

PORTS Lands: 3777 Acres
Within Perimeter Road: 1293 Acres
Study Area: 5247 Acres

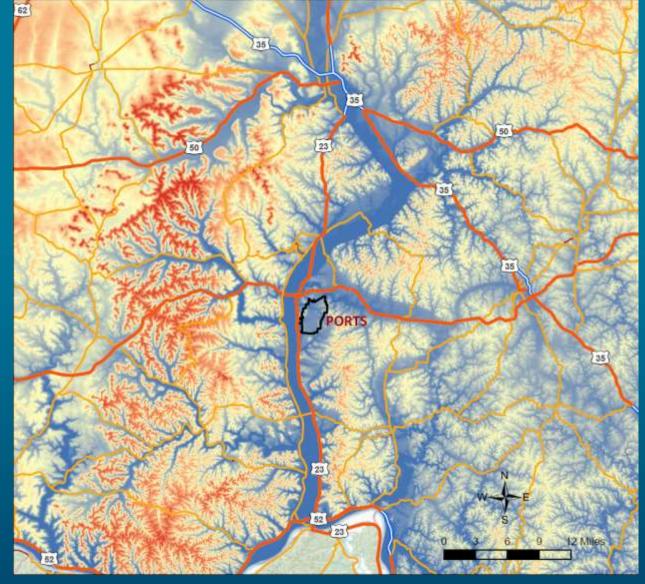


#### Clayey High Lime Till Unglaciated Low Lime Plains Drift Upper Muskingum 55a Plain Basin Mad River 61c interlobate Area 55c Monongahela Loamy High Transitor# Lime Till Darby Zone Plains **Plains** Permian 55b 555 Hills 55e Ohio/Kentucky Carboniferous Plateau 70f Knobs-Lower Scioto Dissected Pre-Wisconsinan Drift Plateau **Plains** 71d PORTSO 70d RUHHA Outer Bluegrass Charleston 40 Miles

#### USEPA, 2011

## Ecoregion Characteristics

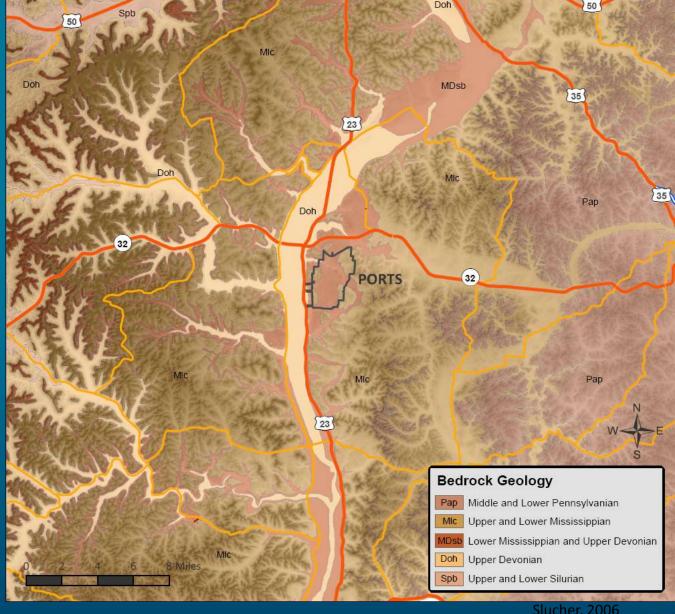




### Regional Elevation Characteristics

OSIP, 2007

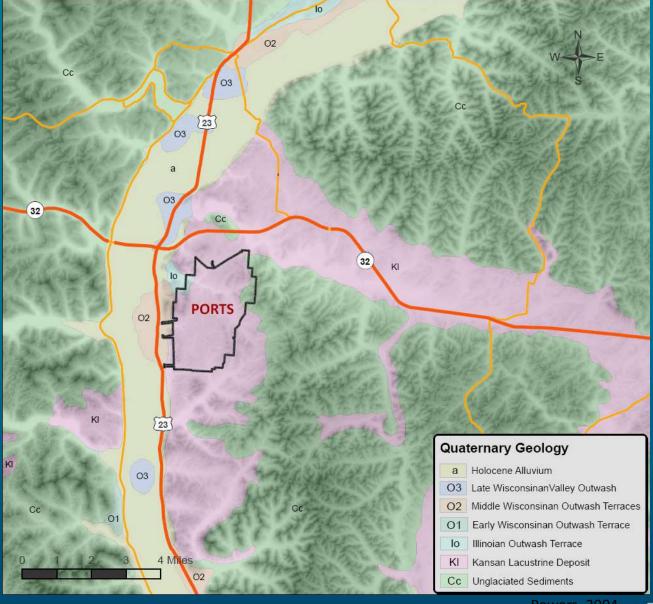




### **Dominant** Bedrock Geology

Slucher, 2006

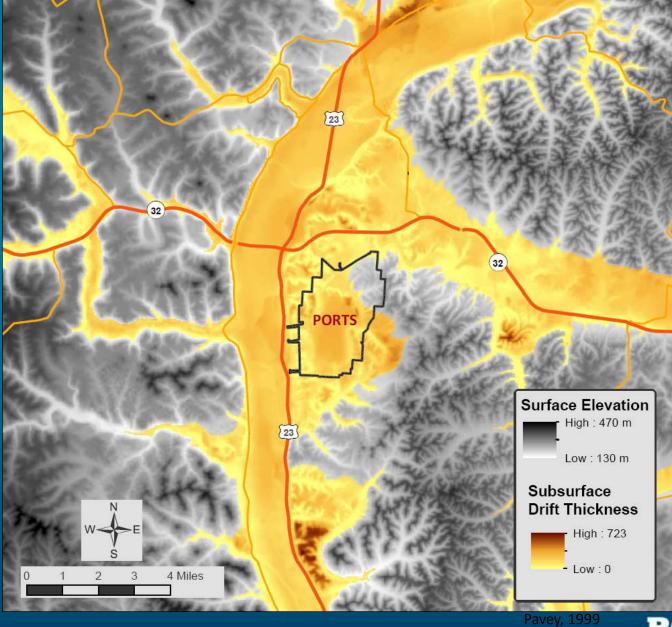




### Dominant Surface Geology

Powers, 2004





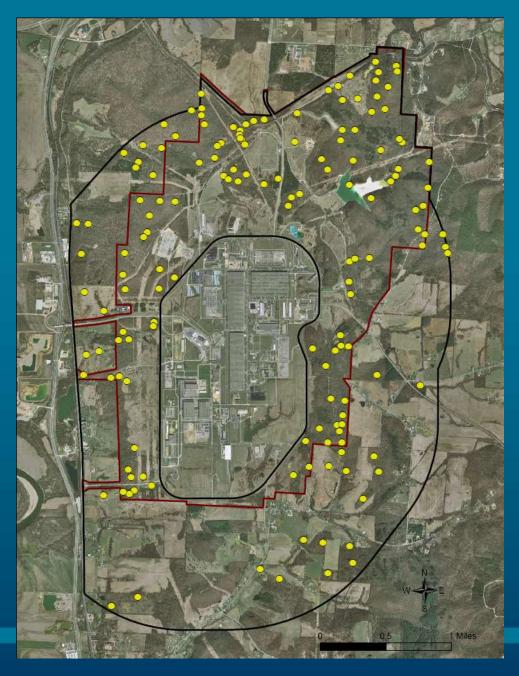
### Regional Subsurface Characteristics



### Terrestrial Habitat Characterization

- What is Habitat?
  - Physical Environment
  - Biotic Resources
- Ecological Setting
  - Patchwork Mosaic
  - Ecosystem Services and Functionality
- Disturbance Legacy
- Climatic Climax Vegetation





# Quantitative Field Sampling

- 152 Habitat plots
- 594 Vegetation survey points



- 361 Woody vegetation samples collected
- 360 Field location points identified for:
  - Unique plants
  - Wildlife signs and sightings
  - Field-truthing map locations









### Palustrine Habitat



### Successional Habitats





### **Upland Habitats**







### Riparian and Lowland Habitats







# Managed Habitats/Features







### **Plant Species**

- Nearly 600 vascular plant species field identified during this study
- Several are listed on State RTE list, but none from the Federal list were discovered
- Species List is the basis for habitat valuations, polygon classification, comparisons, wildlife habitat modeling and land planning recommendations

### Species List

4	Α	В	С	D	Е	F	G	Н	- I	J	К	L
1	Date	Sample #	Taxon	Author	Common Name	Synonomy	Family	CODE	Nativity	Tolerance	Wetland Indicator	C of C
2	6/7/11	207E	Achillea millefolium	L.	Common Yarrow		Asteraceae	ACMI2	native	tolerant	FACU	1
3	6/5/11	RLW1	Acer negundo	L.	Boxelder		Aceraceae	ACNE2	native	midrange	FAC+	3
4	9/27/11	331A	Actaea pachypoda	Elliot	White Baneberry		Ranunuculaceae	ACPA	native	sensitive	UPL	7
5	5/13/11	274B	Acer rubrum	L.	Red Maple		Aceraceae	ACRU	native	tolerant	FAC	2
6	9/29/11	350A	Acer saccharinum	L.	Silver Maple		Aceraceae	ACSA2	native	midrange	FACW	3
7	5/13/11	274A	Acer saccharum	Marsh.	Sugar Maple		Aceraceae	ACSA3	native	midrange	FACU-	5
8	7/15/11	279A	Acalypha virginica	L.	Virginia Threeseed Me	ercury	Euphorbiaceae	ACVI	native	tolerant	FACU-	0
9	6/17/11	210A	Aesculus glabra	Willd.	Ohio Buckeye		Hippocastanacea	AEGL	native	sensitive	FACU+	6
10	5/25/11	207C	Ageratina altissima	(L.) King & H. R	White Snakeroot	Eupatorium rugos	Asteraceae	AGAL5	native	midrange	FACU	3
11	8/19/11	RLW_Field	Agrostis gigantea	L.	Redtop-grass	Agrostis alba	Poaceae	AGGI2	adventive	tolerant	FACW	0
12	6/5/11	RLW2	Agrostis hyemalis	(Walter) Britto	Winter Bentgrass		Poaceae	AGHY	native	midrange	FAC	3
13	9/9/11	RWL	Agalinis linifolia	Nutt.	Flaxleaf False foxglove	2	Scrophulariaceae	AGLI2				
14	9/27/11	GDC .	Agastache nepetoides	(L.) Kuntze	Yellow Giant Hyssop		Lamiaceae	AGNE2	native	midrange	FACU	4
15	8/26/11	220A	Agimonia parviflora	Aiton	Harvestlice		Rosaceae	AGPA6	native	tolerant	FAC	2
16	6/15/11	230A	Agrostis perennans	(Walter) Tuck.	Autumn Bentgrass		Poaceae	AGPE	native	midrange	FACU	4
17	9/13/11		Agalinis purpurea	(L.) Pennell	Purple False Foxglove	Gerardia purpure	Scrophulariaceae	AGPU5	native	sensitive	FACW-	6
18	9/15/11	213A	Agrimonia rostellata	Wallr.	Beaked Agrimony		Rosaceae	AGRO3	native	midrange	FACU	5
19	9/29/11	GDC .	Agastache scrophulariifolia	(Willd.) Kuntze	Purple Giant Hyssop		Lamiaceae	AGSC	native	midrange	UPL	4
20	9/13/11	246A	Agalinis tenuifolia	(Vahl) Raf.	Slenderleaf False Foxe	Gerardia tenuifol	Scrophulariaceae	AGTE3	native	midrange	FAC	4
21	9/27/11	GDC .	Ailanthus altissima	(Mill.) Swingle	Tree-of-Heaven		Simaroubaceae	AIAL	adventive	tolerant	FACU-	0
22	8/26/11	220A	Alopecurus pratensis	L.	Meadow Foxtail		Poaceae	ALPR3	adventive	tolerant	FACW	0
23	8/26/11	221B	Alisma subcordatum	Raf.	American Water Plant	ain	Alismataceae	ALSU	native	tolerant	OBL	2
24	5/25/11	207B	Allium vineale	L.	Wild Garlic		Liliaceae	ALVI	adventive	tolerant	FACU-	0
25	8/26/11	220A	Ambrosia artemisiifolia	L.	Annual Ragweed		Asteraceae	AMAR2	native	tolerant	FACU	0
26	5/13/11	274A	Amelanchier arborea	(Michx.f.) Fern	Eastern Serviceberry		Rosaceae	AMAR3	native	midrange	FAC-	5
27	5/25/11	207B	Amphicarpaea bracteata	(L.) Fernald	American Hogpeanut		Fabaceae	AMBR2	native	midrange	FAC	4
28	10/5/11	349A	Ampelopsis cordata	Michx.	Heartleaf Peppervine		Vitaceae	AMCO2	native	sensitive	FAC+	7
29	8/10/11	251A	Antennaria plantaginifolia	(L.) Richardson	Women's Tobacco		Asteraceae	ANPL	native	tolerant	UPL	1
30	6/7/11	207E	Antennaria solitaria	Rydb.	Singlehead Pussytoes		Asteraceae	ANSO	native	midrange	UPL	3
31	8/26/11	230B	Andropogon virginicus	L.	Broomsedge Bluestem	1	Poaceae	ANVI2	native	midrange	FACU	3
32	8/19/11	RLW_Field	Apios americana	Medik.	Groundnut		Fabaceae	APAM	native	midrange	FACW	3
33	6/7/11	207E	Apocynum cannabinum	L.	Indianhemp		Apocynaceae	APCA	native	tolerant	FACU	1
34	9/27/11	GDC .	Aplectrum hyemale	(Muhl. Ex Willo	Puttyroot		Orchidaceae	APHY	native	sensitive	FAC	7
35	6/5/11	RLW1	Arnoglossum atriplicifolium	(L.) H. Rob.	Pale Indian Plantain		Asteraceae	ARAT	native	sensitive	UPL	6
36	10/5/11	GDC	Arabis canadensis	L.	Sicklepod		Brassicaceae	ARCA	native	midrange	UPL	5
37	9/29/11	350A	Arctium minus	Bernh.	Lesser Burdock		Asteraceae	ARMI2	adventive	tolerant	FACU-	0
38	8/29/11	211B	Aristolochia tomentosa	Sims	Wooly Dutchman's Pip	e	Aristolochiaceae	ARTO3	adventive	tolerant	FAC	0
39	6/17/11	265B	Asclepias hirtella	(Pennell) Woo	Green Milkweed		Asclepiadaceae	ASHI	native	sensitive	UPL	8
40			Asclepias incarnata	L.	Swamp Milkweed		Asclepiadaceae	ASIN	native	midrange	OBL	4
41	9/28/11	_	Asplenium montanum	Willd.	Mountain Spleenwort		Aspleniaceae	ASMO2	native	sensitive	UPL	7
42	5/13/11	None	Asplenium platvneuron	(L.) Britton. Ste	Ebony Spleenwort		Aspleniaceae	ASPL	native	midrange	FACU	3 Eksuni

### Habitat Delineation Process

- Heads Up Digitization: Bringing together the supporting GIS layers and the Field Data
- Classification of features based upon species composition and physical characteristics
- All land surfaces were considered to be some element of habitat





## Habitat Delineation Results

- 32 Cover classes identified
- 2185 Individual habitat patches mapped

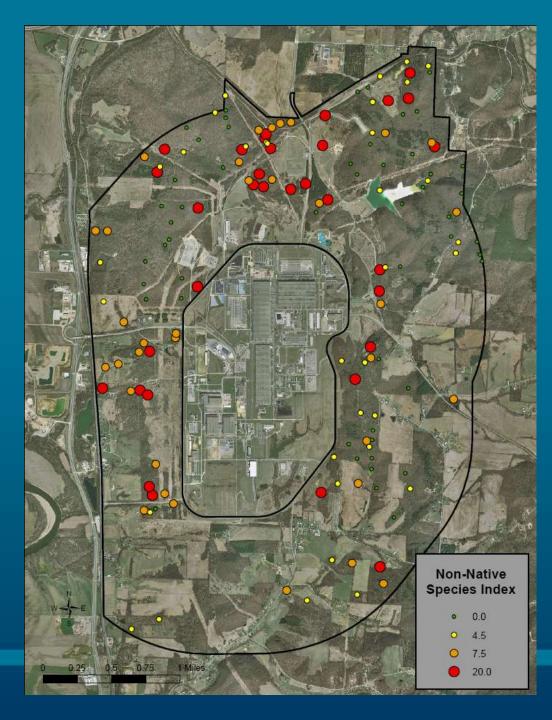




### **Species Nativity Summary**

Nativity Status	Count	Percent
Noninvasive Native	474	81%
Invasive Native	33	6%
Planted or Naturalized Hybrid	9	2%
Noninvasive Alien	7	1%
Invasive Alien	65	11%
Grand Total	588	





## Dominance by Non-native Species



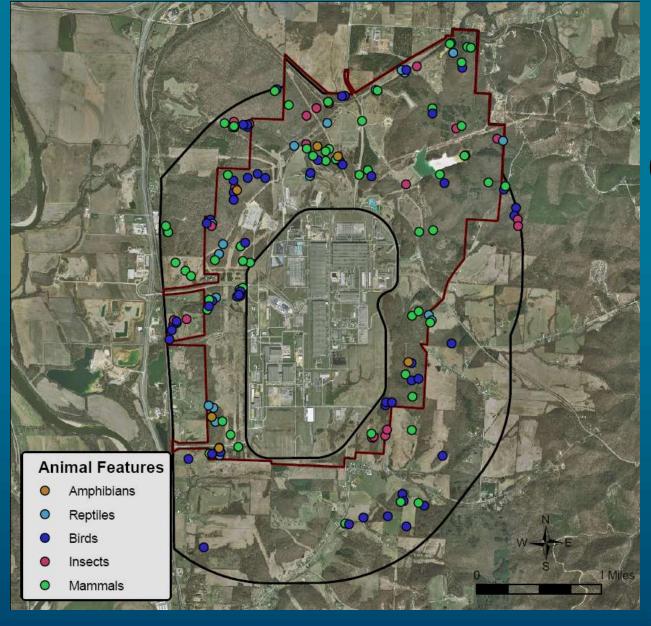
#### Wildlife signs and sightings





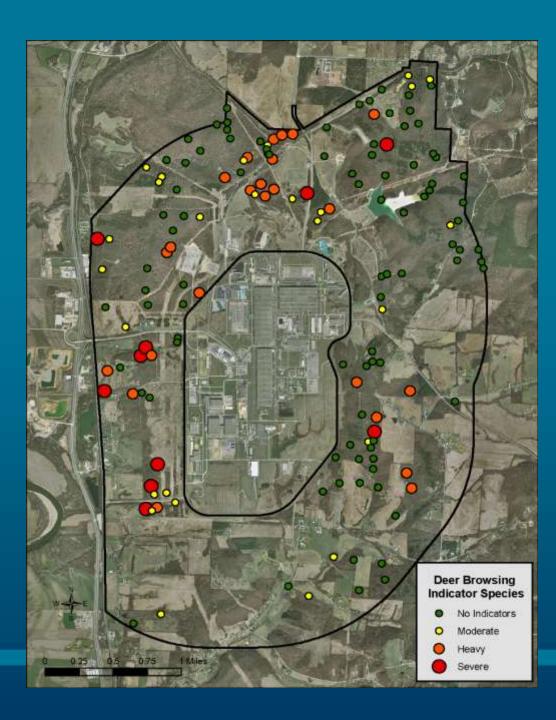






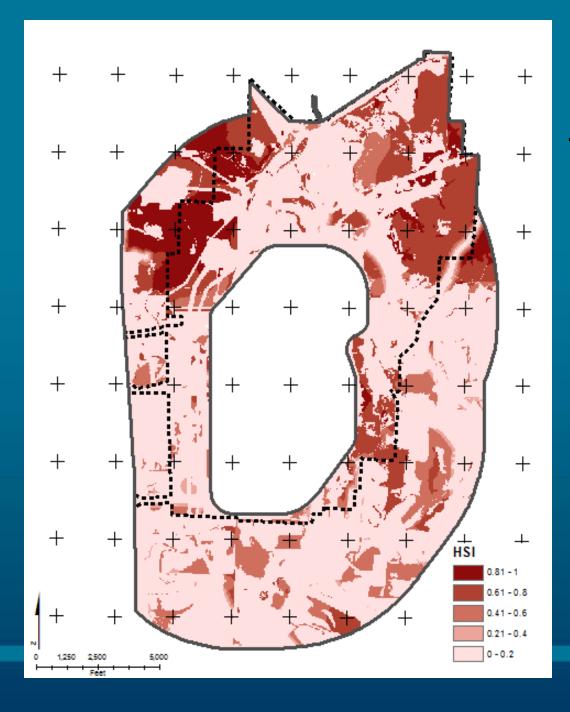
# Field Observations of Wildlife





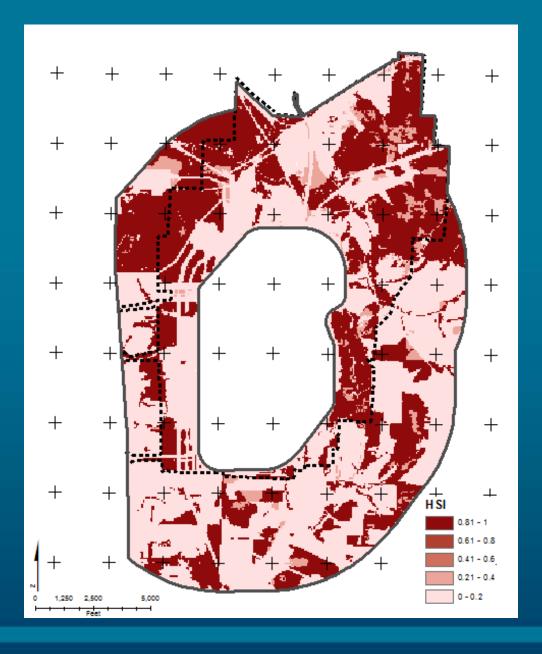
### Species-Based Evidence of Deer Browsing





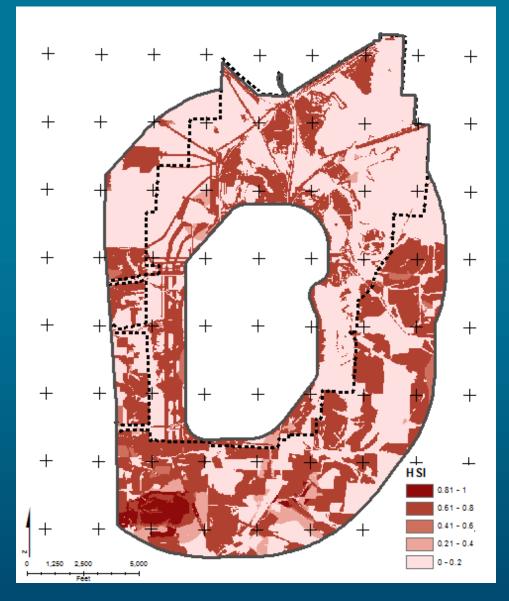
## HSI Analysis: Timber Rattlesnake Crotalus horridus





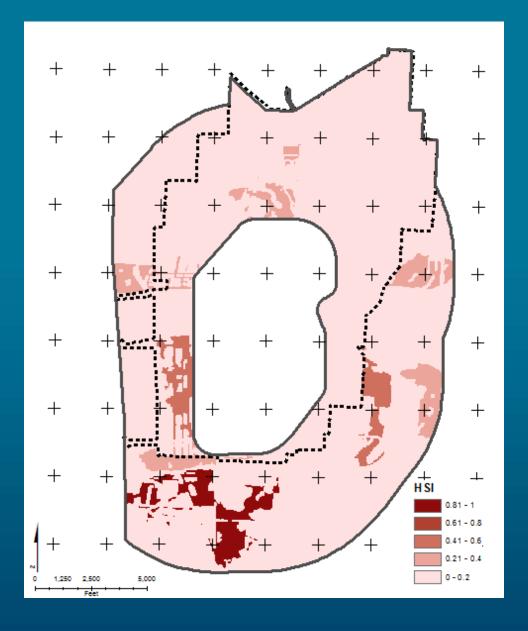
#### HSI Analysis: Wood Thrush *Hylocichla mustelina*





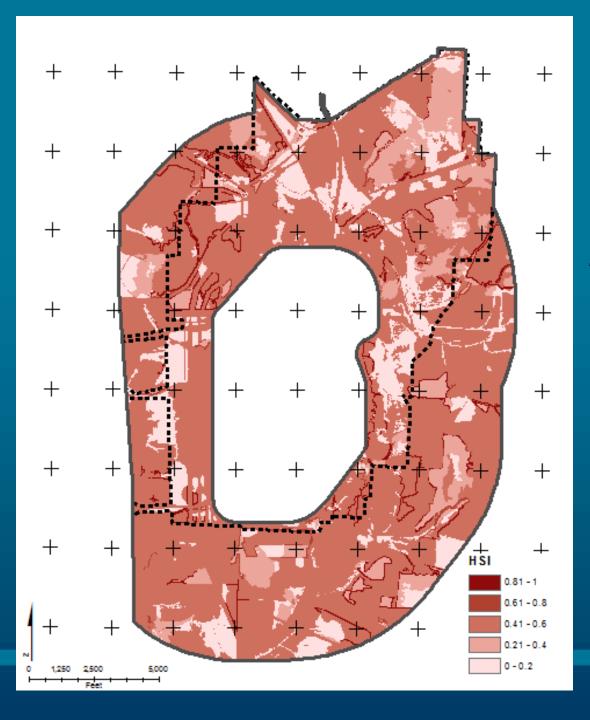
### HSI Analysis: Northern Bobwhite *Colinus virginianus*





#### **HSI Analysis:** Henslow's Sparrow **Ammodramus** henslowii





## HSI Analysis: Indiana Bat *Myotis sodalis*



#### Evaluation of habitats affected by potential OSDC Plan in Study Area D



Habitat Feature	Acres
Oak-Hickory Forest	68.38
Mixed Mesic Forest	51.22
Native Pine Forest	34.35
Mowed Grass/Lawn	32.71
Ruderal Successional	18.55
Successional Scrub	16.24
Successional Forest	15.07
Oldfield - Successional	8.61
Bottomland Hardwood Forest	6.86
Ruderal-Scrub	2.24
Secondary Roads	1.60
Buildings/Facility	1.57
Ruderal Shrub-Sapling	1.23
Palustrine Shrub-Scrub Wetland	0.59
Paved Areas/Outdoor Storage	0.55
Primary Roads: Pavement Asphalt	0.47
Natural Streams	0.36
Water Conveyance/Control	0.16
Palustrine Emergent Wetland	0.03





#### Resource Inventory Data Utility

 Helpful in identifying areas for potential wetland and headwater stream mitigation projects





#### Next Steps for Resource Inventory?

- Analysis of sensitive resources and wildlife habitats
- Development of conservation and management strategies
- Evaluation of potential impacts and opportunities for improving habitats as a result of site plan implementation
- Identification of interpretive and educational opportunities



#### Questions?

#### **Contact information:**

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