

Soil Map—Highland County, Ohio
(Highland Voltage Drop Line Improvements)



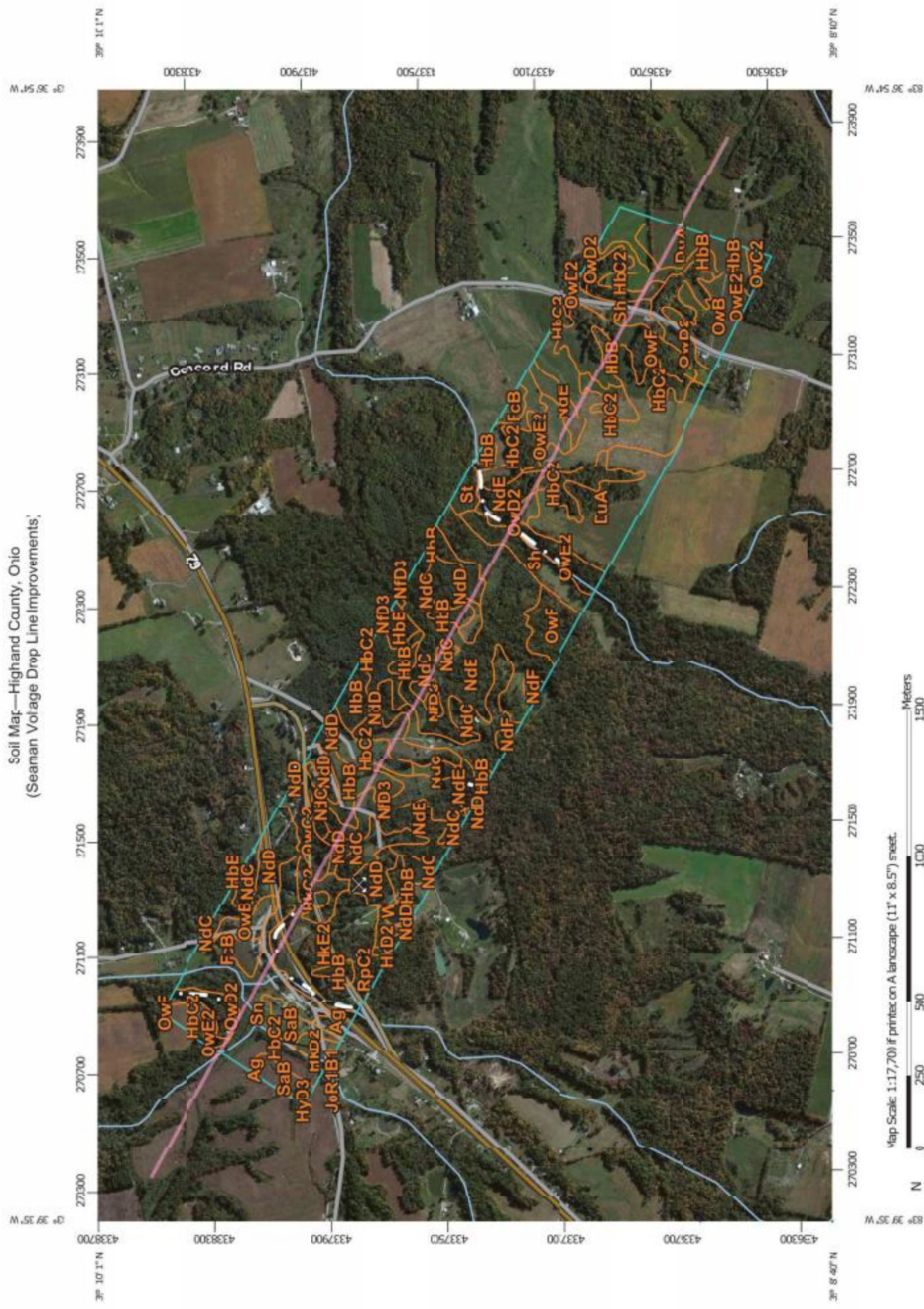
Map projection: Web Mercator Corner coordinates: WGS84 Edge tic: UTM Zone 17N WGS84

Map Unit Legend

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ag	Algiers silt loam	1.3	0.9%
BmC2	Boston-Bratton complex, 6 to 12 percent slopes, moderately eroded	0.4	0.3%
ChC2	Cincinnati silt loam, 6 to 12 percent slopes, moderately eroded	0.0	0.0%
Ee	Eel silt loam	5.0	3.7%
FcB	Fitchville silt loam, 2 to 6 percent slopes	0.3	0.2%
Gn	Genesee silt loam	0.7	0.5%
HbC2	Haubstadt silt loam, 6 to 12 percent slopes, moderately eroded	0.0	0.0%
HkC2	Hickory silt loam, 6 to 12 percent slopes, moderately eroded	0.2	0.1%
HkD2	Hickory silt loam, 12 to 18 percent slopes, moderately eroded	19.4	14.4%
HkE2	Hickory silt loam, 18 to 25 percent slopes, moderately eroded	12.6	9.4%
HyD3	Hickory clay loam, 12 to 18 percent slopes, severely eroded	0.9	0.6%
JoR1A1	Jonesboro-Rossmoyne silt loams, 0 to 2 percent slopes	3.7	2.7%
JoR1B1	Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes	45.5	33.8%
JoR1B2	Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes, eroded	3.7	2.7%
OwB	Otwell silt loam, 2 to 6 percent slopes	1.2	0.9%
OwC2	Otwell silt loam, 6 to 12 percent slopes, moderately eroded	1.4	1.0%
OwD2	Otwell silt loam, 12 to 18 percent slopes, moderately eroded	1.4	1.0%
OwE2	Otwell silt loam, 18 to 25 percent slopes, moderately eroded	0.5	0.3%
RpC2	Rossmoyne silt loam, 6 to 12 percent slopes, moderately eroded	9.8	7.2%

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RsC3	Rossmoyne silty clay loam, 6 to 12 percent slopes, severely eroded	2.0	1.5%
SaB	Sardinia silt loam, 2 to 6 percent slopes	1.7	1.3%
Sh	Shoals silt loam	3.0	2.3%
Sn	Sloan silt loam	18.9	14.0%
WsS1B1	Westboro-Schaffer silt loams, 2 to 4 percent slopes	1.4	1.0%
Totals for Area of Interest		134.7	100.0%

(Seaman Voltage Drop Line Improvements)



Map Scale: 1:17,700 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tic: UTM Zone 17N WGS84



**Natural Resources
Conservation Service**

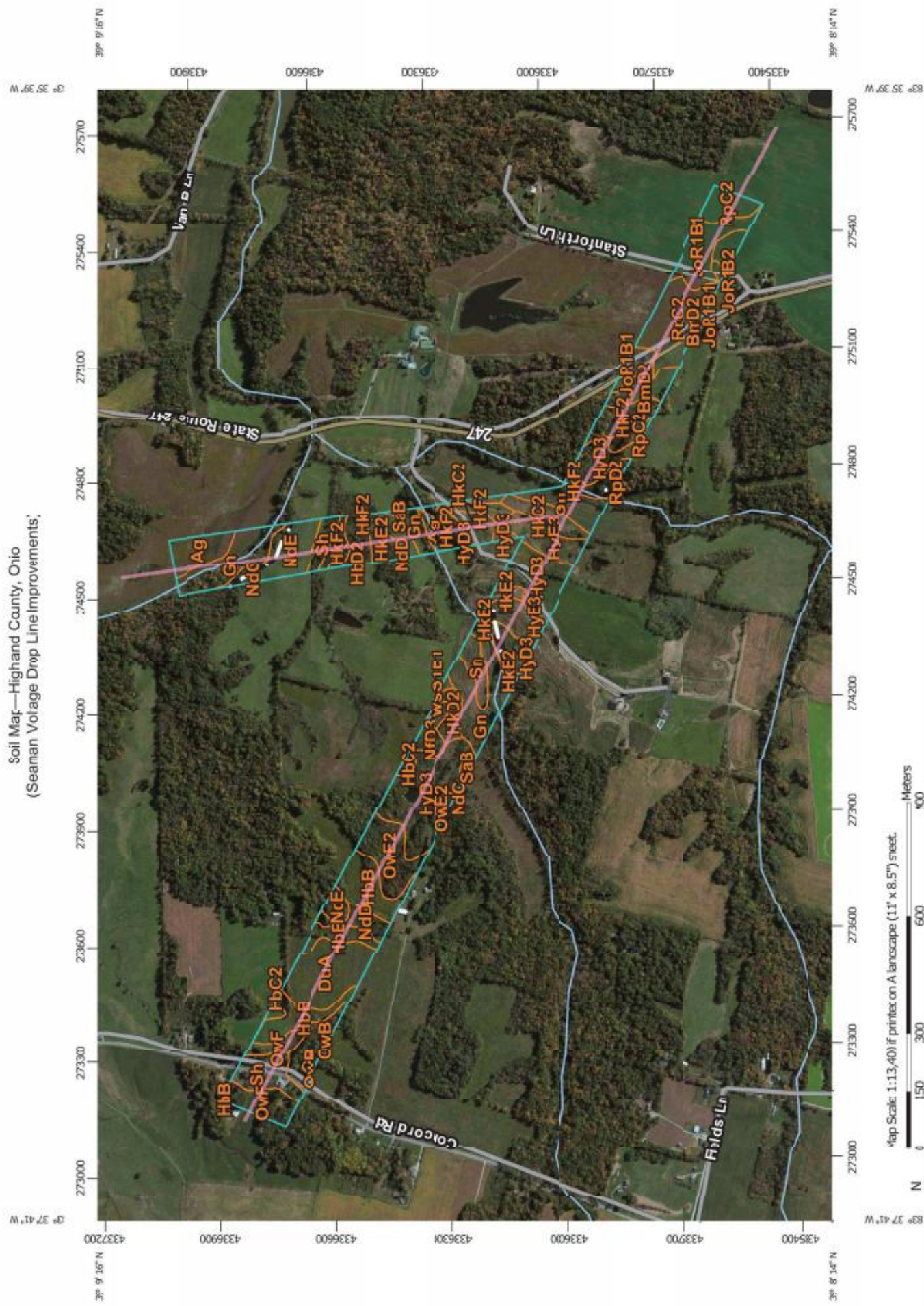
Web Soil Survey
National Cooperative Soil Survey

Map Unit Legend

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ag	Algiers silt loam	1.9	0.4%
DuA	Dubois silt loam, 0 to 2 percent slopes	31.4	6.7%
FcB	Fitchville silt loam, 2 to 6 percent slopes	5.7	1.2%
HbB	Haubstadt silt loam, 2 to 6 percent slopes	64.1	13.7%
HbC2	Haubstadt silt loam, 6 to 12 percent slopes, moderately eroded	30.5	6.5%
HkC2	Hickory silt loam, 6 to 12 percent slopes, moderately eroded	6.2	1.3%
HkD2	Hickory silt loam, 12 to 18 percent slopes, moderately eroded	2.6	0.6%
HkE2	Hickory silt loam, 18 to 25 percent slopes, moderately eroded	28.1	6.0%
HyD3	Hickory clay loam, 12 to 18 percent slopes, severely eroded	0.5	0.1%
JoR1B1	Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes	0.1	0.0%
NdC	Negley loam, 6 to 12 percent slopes	37.0	7.9%
NdD	Negley loam, 12 to 18 percent slopes	36.7	7.9%
NdE	Negley loam, 18 to 25 percent slopes	63.1	13.5%
NdF	Negley loam, 25 to 35 percent slopes	1.9	0.4%
NfD3	Negley clay loam, 12 to 18 percent slopes, severely eroded	14.4	3.1%
OwB	Otwell silt loam, 2 to 6 percent slopes	15.2	3.3%
OwC2	Otwell silt loam, 6 to 12 percent slopes, moderately eroded	8.1	1.7%
OwD2	Otwell silt loam, 12 to 18 percent slopes, moderately eroded	17.0	3.6%
OwE2	Otwell silt loam, 18 to 25 percent slopes, moderately eroded	16.2	3.5%

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
OwF	Otwell silt loam, 25 to 35 percent slopes	32.7	7.0%
RpC2	Rossmoyne silt loam, 6 to 12 percent slopes, moderately eroded	1.1	0.2%
SaB	Sardinia silt loam, 2 to 6 percent slopes	7.6	1.6%
Sh	Shoals silt loam	14.4	3.1%
Sn	Sloan silt loam	26.1	5.6%
St	Stonelick loam	2.4	0.5%
W	Water	1.6	0.3%
Totals for Area of Interest		466.5	100.0%

Soil Map—Highland County, Ohio



Map Scale: 1:13,400 if printed on A landscape (11" x 8.5") sheet.



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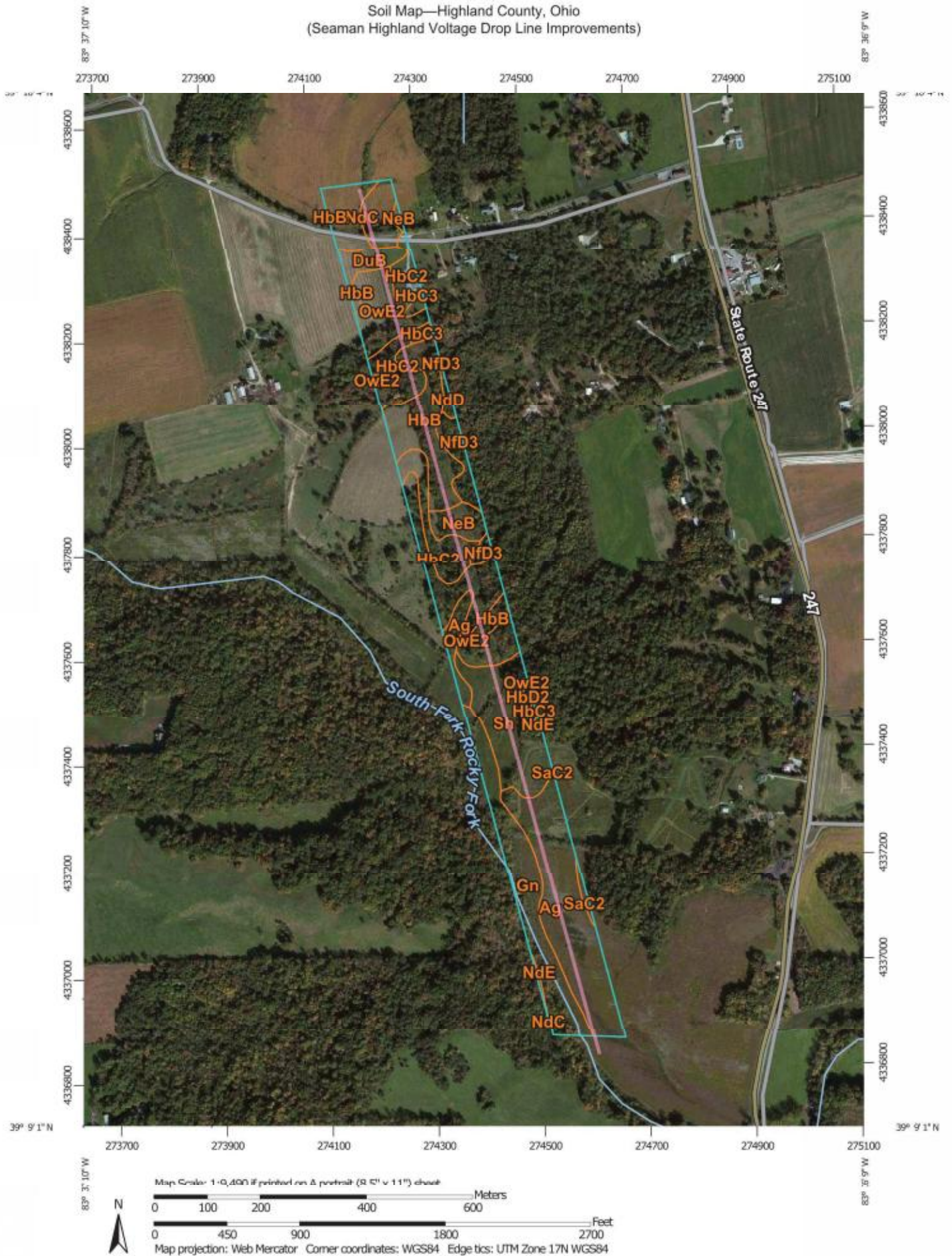
Web Soil Survey
National Cooperative Soil Survey

Map Unit Legend

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ag	Algiers silt loam	4.3	3.2%
BmD2	Boston-Bratton complex, 12 to 18 percent slopes, moderately eroded	2.6	2.0%
DuA	Dubois silt loam, 0 to 2 percent slopes	7.4	5.6%
Gn	Genesee silt loam	15.1	11.5%
HbB	Haubstadt silt loam, 2 to 6 percent slopes	9.0	6.8%
HbC2	Haubstadt silt loam, 6 to 12 percent slopes, moderately eroded	0.8	0.6%
HbD2	Haubstadt silt loam, 12 to 18 percent slopes, moderately eroded	1.8	1.4%
HkC2	Hickory silt loam, 6 to 12 percent slopes, moderately eroded	4.5	3.4%
HkD2	Hickory silt loam, 12 to 18 percent slopes, moderately eroded	4.2	3.2%
HkE2	Hickory silt loam, 18 to 25 percent slopes, moderately eroded	3.0	2.3%
HkF2	Hickory silt loam, 25 to 35 percent slopes, moderately eroded	6.9	5.2%
HyD3	Hickory clay loam, 12 to 18 percent slopes, severely eroded	19.2	14.6%
HyE3	Hickory clay loam, 18 to 25 percent slopes, severely eroded	3.9	3.0%
JoR1B1	Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes	6.8	5.2%
JoR1B2	Jonesboro-Rossmoyne silt loams, 2 to 6 percent slopes, eroded	1.2	0.9%
NdC	Negley loam, 6 to 12 percent slopes	0.8	0.6%
NdD	Negley loam, 12 to 18 percent slopes	1.8	1.4%
NdE	Negley loam, 18 to 25 percent slopes	5.3	4.0%

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
NfD3	Negley clay loam, 12 to 18 percent slopes, severely eroded	1.2	0.9%
OwB	Otwell silt loam, 2 to 6 percent slopes	0.3	0.3%
OwD2	Otwell silt loam, 12 to 18 percent slopes, moderately eroded	2.9	2.2%
OwE2	Otwell silt loam, 18 to 25 percent slopes, moderately eroded	5.0	3.8%
OwF	Otwell silt loam, 25 to 35 percent slopes	4.2	3.2%
RpC2	Rossmoyne silt loam, 6 to 12 percent slopes, moderately eroded	9.9	7.5%
RpD2	Rossmoyne silt loam, 12 to 18 percent slopes, moderately eroded	1.4	1.0%
SaB	Sardinia silt loam, 2 to 6 percent slopes	1.6	1.2%
Sh	Shoals silt loam	4.6	3.5%
Sn	Sloan silt loam	1.7	1.3%
WsS1B1	Westboro-Schaffer silt loams, 2 to 4 percent slopes	0.2	0.1%
Totals for Area of Interest		131.8	100.0%

Soil Map—Highland County, Ohio
(Seaman Highland Voltage Drop Line Improvements)



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Map Unit Legend

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ag	Algiers silt loam	10.8	19.8%
DuB	Dubois silt loam, 2 to 6 percent slopes	1.3	2.4%
Gn	Genesee silt loam	6.9	12.6%
HbB	Haubstadt silt loam, 2 to 6 percent slopes	8.3	15.2%
HbC2	Haubstadt silt loam, 6 to 12 percent slopes, moderately eroded	5.9	10.8%
HbC3	Haubstadt silt loam, 6 to 12 percent slopes, severely eroded	0.6	1.1%
HbD2	Haubstadt silt loam, 12 to 18 percent slopes, moderately eroded	0.4	0.7%
NdC	Negley loam, 6 to 12 percent slopes	1.7	3.2%
NdD	Negley loam, 12 to 18 percent slopes	0.3	0.6%
NdE	Negley loam, 18 to 25 percent slopes	0.2	0.3%
NeB	Negley silt loam, 2 to 6 percent slopes	1.6	2.9%
NfD3	Negley clay loam, 12 to 18 percent slopes, severely eroded	1.8	3.3%
OwE2	Otwell silt loam, 18 to 25 percent slopes, moderately eroded	8.4	15.5%
SaC2	Sardinia silt loam, 6 to 12 percent slopes, moderately eroded	0.2	0.5%
Sh	Shoals silt loam	6.2	11.3%
Totals for Area of Interest		54.5	100.0%

Soil Map—Highland County, Ohio
(Seaman Voltage Drop Line Improvements)



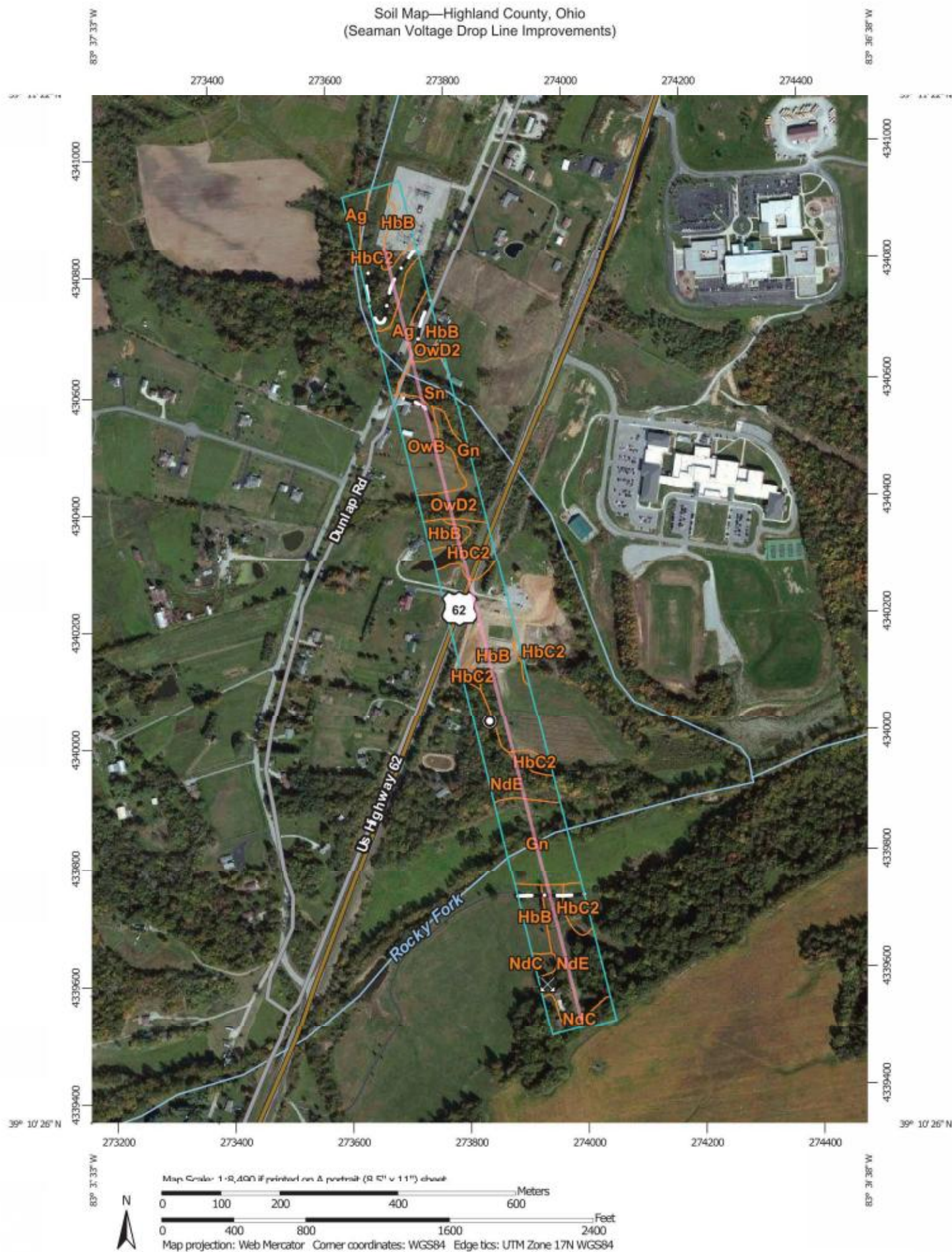
Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

Map Unit Legend

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DuA	Dubois silt loam, 0 to 2 percent slopes	3.0	6.5%
DuB	Dubois silt loam, 2 to 6 percent slopes	1.0	2.1%
Gn	Genesee silt loam	3.8	8.2%
HbB	Haubstadt silt loam, 2 to 6 percent slopes	20.8	44.4%
HbC2	Haubstadt silt loam, 6 to 12 percent slopes, moderately eroded	6.2	13.3%
HbC3	Haubstadt silt loam, 6 to 12 percent slopes, severely eroded	0.0	0.0%
NdC	Negley loam, 6 to 12 percent slopes	6.7	14.3%
NdE	Negley loam, 18 to 25 percent slopes	4.0	8.5%
NeB	Negley silt loam, 2 to 6 percent slopes	0.2	0.4%
OwE2	Otwell silt loam, 18 to 25 percent slopes, moderately eroded	1.0	2.2%
Totals for Area of Interest		46.8	100.0%








































































































Soil Map—Highland County, Ohio
(Seaman Voltage Drop Line Improvements)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)	
Soils	   	Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points	     
Special Point Features	                       	Special Point Features Blowout Borrow Pit Clay Spot Closed Depression Gravel Pit Gravelly Spot Landfill Lava Flow Marsh or swamp Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Spot Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot	
Water Features	                       	Water Features Streams and Canals	
Transportation	                       	Transportation Rails Interstate Highways US Routes Major Roads Local Roads	
Background	                       	Background Aerial Photography	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Highland County, Ohio
Survey Area Data: Version 12, Dec 17, 2013

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Data not available.

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Highland County, Ohio (OH071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ag	Algiers silt loam	2.6	6.8%
Gn	Genesee silt loam	4.1	10.5%
HbB	Haubstadt silt loam, 2 to 6 percent slopes	11.0	28.5%
HbC2	Haubstadt silt loam, 6 to 12 percent slopes, moderately eroded	6.3	16.3%
NdC	Negley loam, 6 to 12 percent slopes	1.2	3.0%
NdE	Negley loam, 18 to 25 percent slopes	6.6	16.9%
OwB	Otwell silt loam, 2 to 6 percent slopes	2.9	7.6%
OwD2	Otwell silt loam, 12 to 18 percent slopes, moderately eroded	2.2	5.7%
Sn	Sloan silt loam	1.8	4.7%
Totals for Area of Interest		38.7	100.0%

APPENDIX B

Photographs

Client Name: American Electric Power (AEP)	Project Name: Seaman Voltage Drop Transmission Line Improvement Project	Photo Location: Highland County, Ohio
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Photo No. 1	
Date: April 11, 2014	
Description: Stream #1	

Photo No. 2	
Date: April 11, 2014	
Description: Stream #2	

Client Name: American Electric Power (AEP)	Project Name: Seaman Voltage Drop Transmission Line Improvement Project	Photo Location: Highland County, Ohio
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Photo No. 3	
Date: April 11, 2014	
Description: Stream #3	

Photo No. 4	
Date: April 11, 2014	
Description: Stream #4	

Client Name: American Electric Power (AEP)	Project Name: Seaman Voltage Drop Transmission Line Improvement Project	Photo Location: Highland County, Ohio
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Photo No. 5	
Date: April 11, 2014	
Description: Stream #5	

Photo No. 6	
Date: April 11, 2014	
Description: Wetland #5, Portsmouth-Trenton #1 & #2 structures 326 and 335 can be seen in the distance	

Client Name: American Electric Power (AEP)	Project Name: Seaman Voltage Drop Transmission Line Improvement Project	Photo Location: Highland County, Ohio
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Photo No. 7	
Date: April 11, 2014	
Description: Stream #8 near Portsmouth-Trenton #1 structure 324	

Photo No. 8	
Date: April 11, 2014	
Description: Stream #7 where it intersects with Stream #8, wetland vegetation is contained within the banks of the two streams.	

Client Name: American Electric Power (AEP)	Project Name: Seaman Voltage Drop Transmission Line Improvement Project	Photo Location: Highland County, Ohio
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Photo No. 9	
Date: April 11, 2014	
Description: Stream #8 looking west across the Portsmouth-Trenton #1 & #2 right of way.	

Photo No. 10	
Date: April 11, 2014	
Description: Stream #8A	

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

5/28/2014 2:59:14 PM

in

Case No(s). 14-0904-EL-BLN

Summary: Application Letter of Notification for the Seaman Voltage Drop Transmission Line Improvement Project Part 3 electronically filed by Mr. Yazen Alami on behalf of AEP Ohio Transmission Company