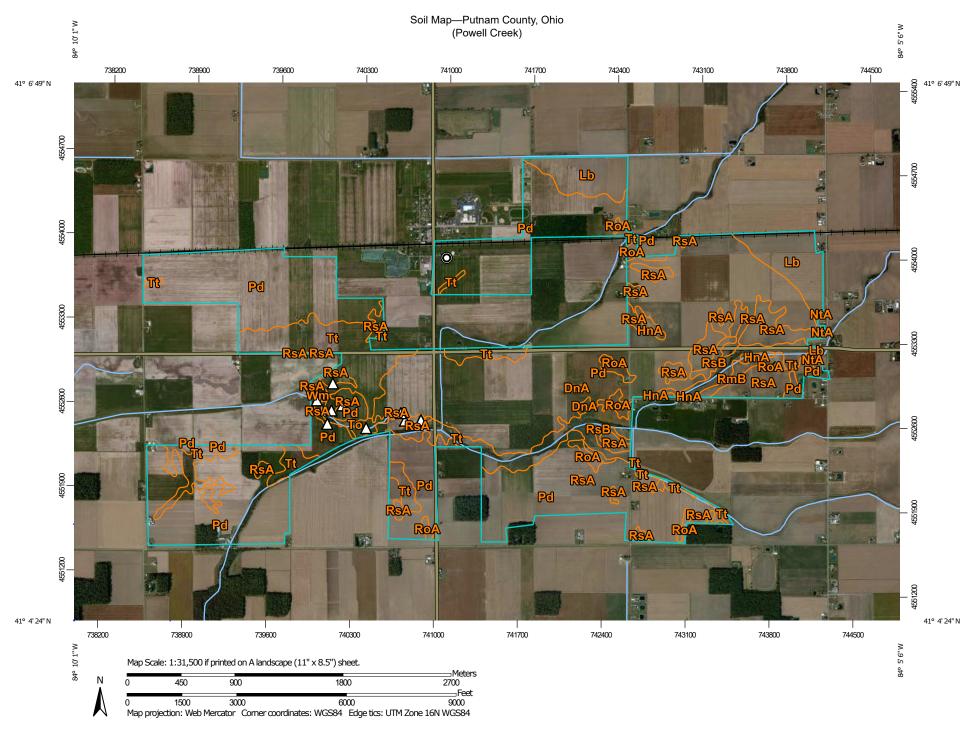
Exhibit F - Hydrogeologic Report (Part 3 of 4)

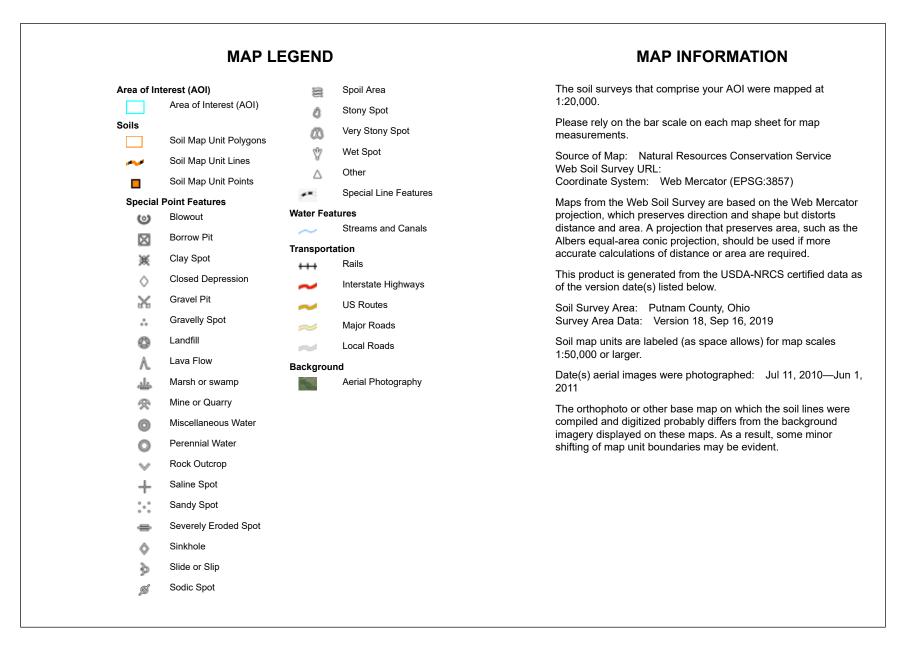
Appendix C

Soil Maps



USDA Natural Resources

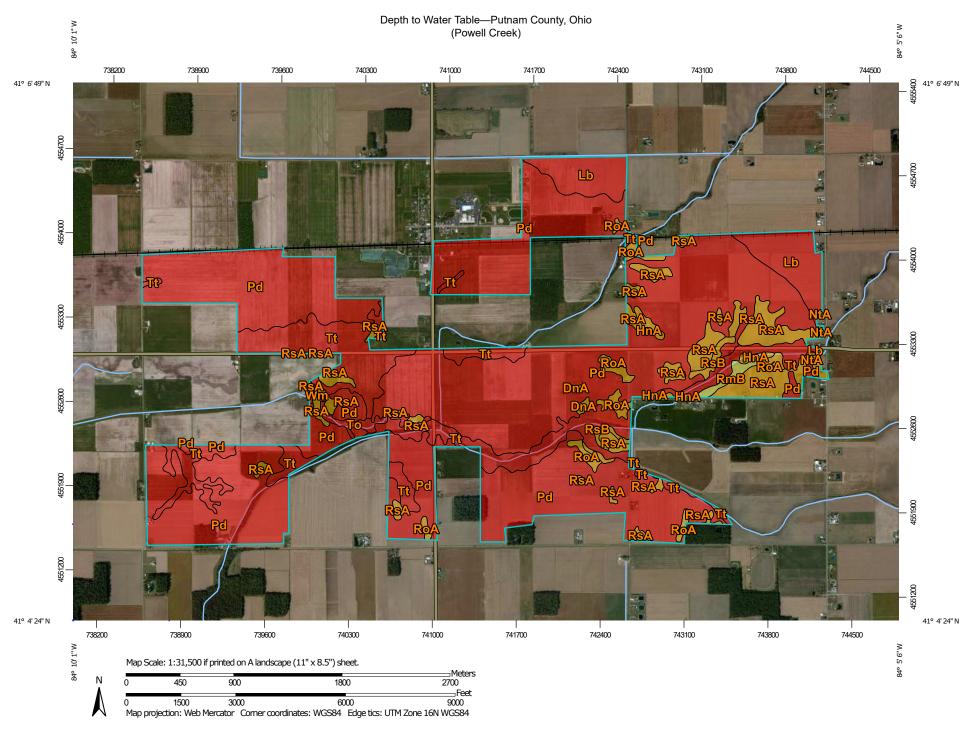
Conservation Service



USDA

Map Unit Legend

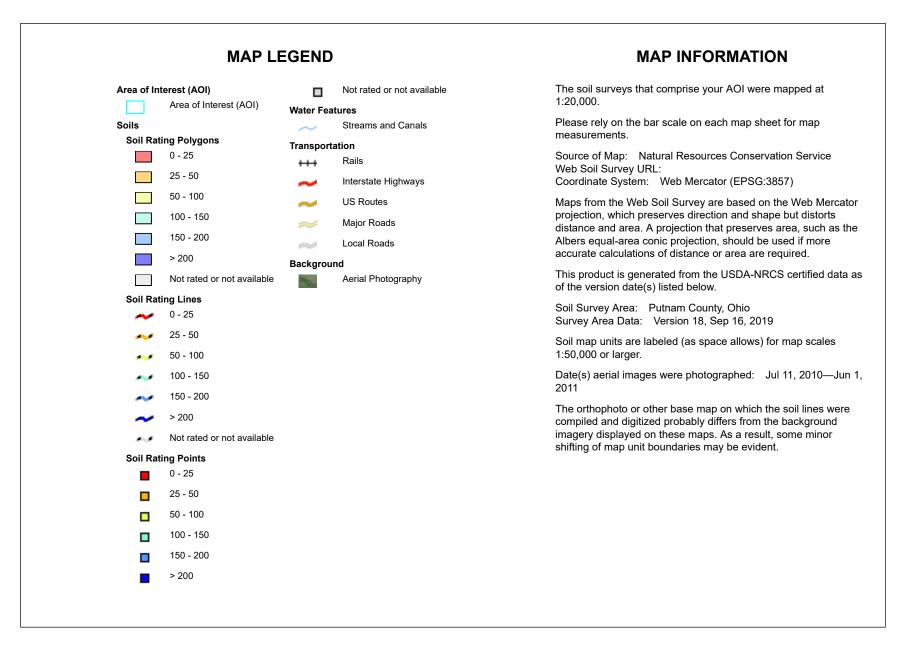
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DnA	Digby loam, 0 to 2 percent slopes	3.3	0.2%
HnA	Haskins loam, 0 to 2 percent slopes	10.4	0.5%
HnB	Haskins loam, 2 to 6 percent slopes	2.7	0.1%
Lb	Latty silty clay, till substratum, 0 to 1 percent slopes	119.8	5.5%
NtA	Nappanee silty clay loam, 0 to 2 percent slopes	6.7	0.3%
Pd	Paulding clay, 0 to 1 percent slopes	1,496.6	68.7%
RmB	Rawson loam, 2 to 6 percent slopes	9.1	0.4%
RoA	Roselms silt loam, 0 to 2 percent slopes	36.4	1.7%
RsA	Roselms silty clay loam, 0 to 2 percent slopes	151.1	6.9%
RsB	Roselms silty clay loam, 2 to 6 percent slopes	12.3	0.6%
То	Toledo silty clay loam	14.7	0.7%
Tt	Toledo silty clay, 0 to 1 percent slopes	312.1	14.3%
Wm	Willette muck	2.4	0.1%
Totals for Area of Interest	·	2,177.6	100.0%



USDA Natural Resources

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Depth to Water Table

Map unit symbol	Map unit name	Rating (centimeters)	Acres in AOI	Percent of AOI
DnA	Digby loam, 0 to 2 percent slopes	31	3.3	0.2%
HnA	Haskins loam, 0 to 2 percent slopes	30	10.4	0.5%
HnB	Haskins loam, 2 to 6 percent slopes	30	2.7	0.1%
Lb	Latty silty clay, till substratum, 0 to 1 percent slopes	0	119.8	5.5%
NtA	Nappanee silty clay loam, 0 to 2 percent slopes	30	6.7	0.3%
Pd	Paulding clay, 0 to 1 percent slopes	0	1,496.6	68.7%
RmB	Rawson loam, 2 to 6 percent slopes	61	9.1	0.4%
RoA	Roselms silt loam, 0 to 2 percent slopes	31	36.4	1.7%
RsA	Roselms silty clay loam, 0 to 2 percent slopes	31	151.1	6.9%
RsB	Roselms silty clay loam, 2 to 6 percent slopes	31	12.3	0.6%
То	Toledo silty clay loam	8	14.7	0.7%
Tt	Toledo silty clay, 0 to 1 percent slopes	0	312.1	14.3%
Wm	Willette muck	8	2.4	0.1%
Totals for Area of Inter	rest	2,177.6	100.0%	

Description

"Water table" refers to a saturated zone in the soil. It occurs during specified months. Estimates of the upper limit are based mainly on observations of the water table at selected sites and on evidence of a saturated zone, namely grayish colors (redoximorphic features) in the soil. A saturated zone that lasts for less than a month is not considered a water table.

This attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Rating Options

Units of Measure: centimeters Aggregation Method: Dominant Component Component Percent Cutoff: None Specified Tie-break Rule: Lower Interpret Nulls as Zero: No Beginning Month: January Ending Month: December



Appendix D

Well Logs



Ohio Department of Natural Resources Division of Soil and Water Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 39896 View Image of Original Well Log **ORIGINAL OWNER AND LOCATION** Original Owner Name: PETE WAINAMENT County: PUTNAM Township: PALMER Section Number: 36 Address: Lot Number: City: State: OH Zip Code: Location Area: Location Number: 60 Location Map Year: 1945 Latitude: 41.090511 Longitude: -84.130564 CONSTRUCTION DETAILS Depth to Bedrock: **Borehole Diameter: 1:** Borehole Depth: 1: 55 ft. 2: 2: Casing Diameter: 1: 4.25 in. Casing Length: 1: 47 ft. **Casing Thickness: 1:** 2: 2: 2: Casing Height Above Ground: Aquifer Type: LIMESTONE Date of Completion: 12/3/1948 Total Depth: 55 ft. Well Use: Driller's Name: STOEPFEL DRILLING, LLC Screen Diameter: Slot Size: Screen Length: Type: Material: Set Between: Vol/Wt Used: Gravel Pack Material/Size: Method of Installation: Placed: Vol/Wt Used: Grout Material/Size: Method of Installation: Placed WELL TEST DETAILS Static Water Level: 40 ft. Test Rate: Associated Reports Drawdown: **Test Duration:** COMMENTS: WELL LOG Formations То From CLAY 0 41 SAND 41 46 LIMESTONE 46 55 WATER AT 53 Printing Tips (opens in new window)

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Well Log Number: 101288 View Image of Original Well Log **ORIGINAL OWNER AND LOCATION** Original Owner Name: ONBROTH County: PUTNAM Township: PALMER Section Number: 36 Address: SR 108 Lot Number: City: State: OH Zip Code: Location Area: Location Number: 47 Location Map Year: 1986 Latitude: 41.085156 Longitude: -84.124377 CONSTRUCTION DETAILS Depth to Bedrock: **Borehole Diameter: 1:** Borehole Depth: 1: 90 ft. 2: 2: Casing Diameter: 1: 4.25 in. Casing Length: 1: 40 ft. **Casing Thickness: 1:** 2: 2: 2: **Casing Height Above Ground:** Aquifer Type: LIMESTONE Date of Completion: 9/17/1953 Total Depth: 90 ft. Well Use: Driller's Name: STOEPFEL DRILLING, LLC Slot Size: Screen Diameter: Screen Length: Type: Material: Set Between: Vol/Wt Used: Gravel Pack Material/Size: Method of Installation: Placed: Vol/Wt Used: Grout Material/Size: Method of Installation: Placed WELL TEST DETAILS Static Water Level: Test Rate: Associated Reports Drawdown: **Test Duration:** COMMENTS: WELL LOG Formations From То CLAY 40 0 LIMESTONE 40 90 Printing Tips (opens in new window) Print This Page Return to County Search

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Well Log Number: 240565 View Image of Original Well Log **ORIGINAL OWNER AND LOCATION** Original Owner Name: WILLIAM HERMILLER County: PUTNAM Township: PALMER Section Number: 33 Address: G CR Lot Number: City: State: OH Zip Code: Location Area: Location Number: 71 Location Map Year: 1968 Latitude: 41.079086 Longitude: -84.151548 CONSTRUCTION DETAILS Depth to Bedrock: **Borehole Diameter: 1:** Borehole Depth: 1: 73 ft. 2: 2: Casing Diameter: 1: 5.63 in. Casing Length: 1: 48 ft. **Casing Thickness: 1:** 2: 2: 2: Casing Height Above Ground: Aquifer Type: LIMESTONE Date of Completion: 7/17/1961 Total Depth: 73 ft. Well Use: Driller's Name: STOEPFEL DRILLING, LLC Screen Diameter: Slot Size: Screen Length: Type: Material: Set Between: Vol/Wt Used: Gravel Pack Material/Size: Method of Installation: Placed: Vol/Wt Used: Grout Material/Size: Method of Installation: Placed WELL TEST DETAILS Static Water Level: 32 ft. Test Rate: 12 gpm Associated Reports Drawdown: **Test Duration:** COMMENTS: WELL LOG Formations То From CLAY 0 45 LIMESTONE 45 73 Printing Tips (opens in new window) Print This Page Return to County Search



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Well Log Number: 347019 View Image of Original Well Log **ORIGINAL OWNER AND LOCATION Original Owner Name:** PETE WARMEMENT County: PUTNAM Township: PALMER Section Number: 27 Address: SR 113 Lot Number: City: State: OH Zip Code: Location Area: Location Number: 59 Location Map Year: 1968 Latitude: 41.095388 Longitude: -84.144674 CONSTRUCTION DETAILS Borehole Depth: 1: 225 ft. Depth to Bedrock: **Borehole Diameter: 1:** 2: 2: Casing Diameter: 1: 5.63 in. Casing Length: 1: 57 ft. **Casing Thickness: 1:** 2: 2: 2: Casing Height Above Ground: Aquifer Type: LIMESTONE Date of Completion: 3/22/1966 Total Depth: 225 ft. Well Use: Driller's Name: STOEPFEL DRILLING, LLC Screen Diameter: Slot Size: Screen Length: Type: Material: Set Between: Vol/Wt Used: Gravel Pack Material/Size: Method of Installation: Placed: Vol/Wt Used: Grout Material/Size: Method of Installation: Placed WELL TEST DETAILS Static Water Level: 20 ft. Test Rate: 30 gpm Associated Reports Drawdown: Test Duration: 2 hrs. COMMENTS: WELL LOG Formations From То CLAY 42 57 LIMESTONE 57 225 Printing Tips (opens in new window) Print This Page Return to County Search



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Well Log Number: 537881 View Image of Original Well Log **ORIGINAL OWNER AND LOCATION** Original Owner Name: GARY WESTRICK County: PUTNAM Township: LIBERTY Section Number: 30 Address: RD 13 Lot Number: City: State: OH Zip Code: Location Area: Location Number: 34 Location Map Year: 1986 Latitude: 41.098125 Longitude: -84.111698 CONSTRUCTION DETAILS Depth to Bedrock: **Borehole Diameter: 1:** Borehole Depth: 1: 61 ft. 2: 2: Casing Diameter: 1: 5.63 in. Casing Length: 1: 57 ft. **Casing Thickness: 1:** 2: 2: 2: **Casing Height Above Ground:** Aquifer Type: LIMESTONE Date of Completion: 5/9/1980 Total Depth: 61 ft. Well Use: Driller's Name: SPITNALE WELL DRILLING Screen Diameter: Slot Size: Screen Length: Type: Material: Set Between: Gravel Pack Material/Size: Vol/Wt Used: Method of Installation: Placed: Vol/Wt Used: Grout Material/Size: Method of Installation: Placed WELL TEST DETAILS Static Water Level: 30 ft. Test Rate: 25 gpm Associated Reports Drawdown: 5 ft. Test Duration: 2 hrs. COMMENTS: WELL LOG Formations From То YELLOW CLAY 0 20 **GRAY CLAY** 20 50 HARDPAN 56 50 DOLOMITE 56 57 LIMESTONE 57 61 WATER AT 57 Printing Tips (opens in new window)

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Case No(s). 20-1084-EL-BGN

Summary: Application Exhibit F - Hydrogeologic Report (Part 3 of 4) electronically filed by Teresa Orahood on behalf of Dylan F. Borchers