Baker Soil Services, Inc.
3152 N 100 W
Decatur, IN. 46733
260-701-2143

This report of an onsite soil investigation was requested by: Green Family Farm

Location: Duglay Rd, between McDuffee & Madden Rds, Tract 6
Sec. 7, Eel River Township, Allen County, Indiana

Type of site: New home

Soil Scientist: Joseph W Baker
IRSS # 44

Date: February 10, 2025

This report describes soil conditions observed during an onsite soil investigation conducted on the above date. This report is intended to provide information to the landowner and local health department to be used to determine the suitability of the soil for the installation of an onsite sewage system.

Baker Soil Services and the soil scientist named in this report do not make any assurances, promises, or guarantees regarding the suitability of the soil for installation of an onsite sewage system. The information contained in this report, including any attachments hereto or enclosures herewith, DOES NOT approve or deny a site, provide system specifications, assure that a system can be designed for this site, or imply that any particular system or type of system will function on this site.

In addition to the information contained in this soil report, other factors are considered for use of a site for an onsite septic system, including but not limited to:

- Drainage
- Topography
- Location with respect to construction traffic
- Compaction, stripping, or other site disturbances

The local health department provides system specifications for residential onsite sewage systems. This report will be released to the local health department upon receipt of payment for the preparation of the report.

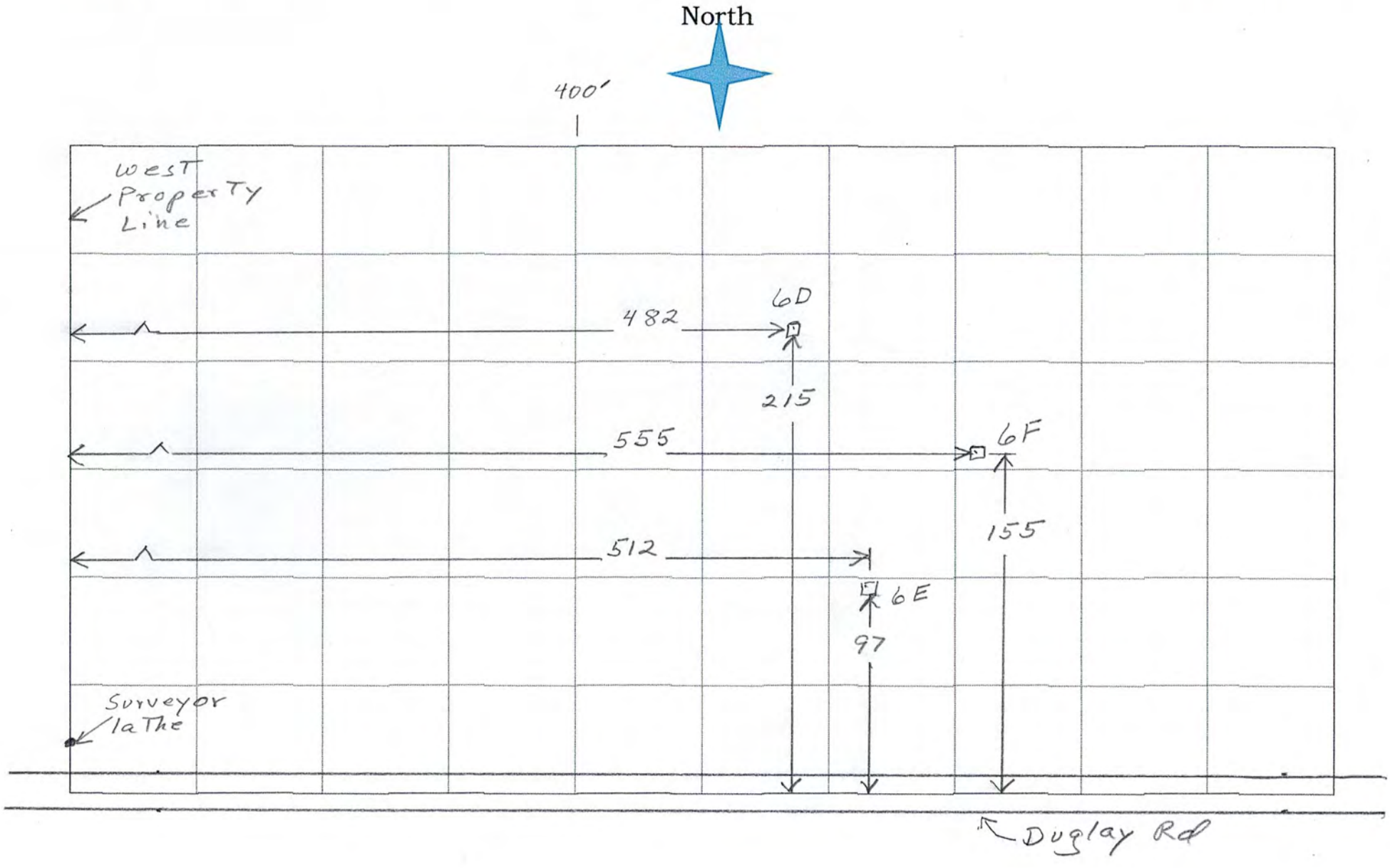
Attached: Map sheet, General site information sheet, Additional soil description sheet, Texture analysis sheets (2), iMap photo sheet, Web soil survey sheets (3)

This is a preliminary report. Atterberg Limits results are pending. A final report will be issued upon receipt of the Atterberg Limits results.

Baker Soil Services, Inc.

Green Family Farm
Tract 6

BmB – Blount SiL/CL
2.67% slope



General site information

Soil symbol	BmB	Landscape position	Upland	Limiting layer:	
Land use	Crop	% slope	2.67%	Bedrock	
Vegetation	Corn stalks	Kind of slope	Shoulder slope	Fragipan	
Date	2-10-2025	Shape of slope	Convex	Poor filter	
County	Allen	Direction of slope	East	Compact till	22
Map sheet	1	On Moraine?	Yes	Moraine characteristics	
Legal description	Sec. 7		Salamonie Moraine	Dense clay	
	T 32N R 11E	Site #	Soil pit 6D	Compaction	

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Wetness characteristics:
Depth to seasonal high water table (inches) 9
Does it pond water? No
Does it flood? No

Client: Green Family Farm
Tract 6

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-7	Frozen										
7-9	Ap	CL	10YR3/3			1	Tk	Platy	Firm		Till
9-22	Bt1	CL 38% C	10YR5/4	10YR5/2	10YR5/2	1.5	M	Sbk	Firm		Till
22-48	Cd	CL	10YR4/2		10YR6/1	0		Massive	V.Firm	VE	Till

USDA/SCS soil type this soil most closely represents:
Blount clay loam, 2.67% slope

USDA/SCS Rating for Absorption Fields: Severe
Due to: Seasonal wetness
Slow perk
Shallow to limiting layer

Plates in the Ap horizon of Soil pit 6D are 0.5-0.75 inch thick.
Additional lab testing was run on the Bt1 horizon of Soil pit 6D
Cation Exchange Capacity (Sum of Bases): 24.5 meq/100g Cation Exchange Capacity (NH_4 Saturation): 15.54 meq/100g
Atterberg Limits: *Pending*
Pam Thomas ESI-3 Swelling Potential: *Pending*
Muntohar Swelling Potential: *Pending*
The high CEC, Sum of Bases is likely due to the high amount of calcium (4150 ppm, 84.7%) found in this sample.

Green Family Farm Tract 6

Soil pit 6E

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-6	Frozen										
6-11	Ap	SiL	10YR4/3			1	Tk	Platy	Firm		Loess
11-19	2Bt1	Clay 40% C	10YR5/4	10YR5/2	10YR5/2	1	M	Sbk	Firm		Till
19-28	2Bt2	CL 38% C	10YR5/4	10YR5/2	2.5Y5/1	1	M	Abk	Firm		Till
28-40	2Cd	CL	10YR4/2		10YR6/1	0		Massive	V.Firm	VE	Till

Plates in the Ap horizon of Soil pit 6E are 0.5 inch thick

Soil pit 6F

Depth	Horizon	Texture	Matrix	Mottles	Coating	Grade	Size	Shape	Cons.	Efferv.	P.Mat
0-6	Frozen										
6-8	Ap	CL	10YR4/3			1	Tk	Platy	Firm		Till
8-20	Bt1	CL 38% C	10YR5/4	10YR5/2	10YR5/2	1	M	Sbk	Firm		Till
20-40	Cd	CL	10YR4/2		10YR6/1	0		Massive	V.Firm	VE	Till

Plates in the Ap horizon of Soil pit 6F are 1 inch thick.

Grade was shot for this onsite soil investigation by Joseph W Baker with a Bosch laser on 2-7-2025.

People present during this onsite soil investigation were: Steve Coil, Schrader Real Estate and Auction Company
Eric Ott, Schrader Real Estate and Auction Company (excavator)
Mark Herber, Allen County Dept of Health
Joseph W Baker, Baker Soil Services

Report Number
F25042-0098

Account Number
04517

a&lgreatlakes LABORATORIES
Scientists who don't mind getting dirty.™

3505 Conestoga Dr.
Fort Wayne, IN 46808
260.483.4759
algreatlakes.com

To: BAKER SOIL SERVICES
3152 N 100 W
DECATUR, IN 46733-8384

For: GREEN FAMILY FARM

Farm: TRACT 6
Field: DUGLAY RD

Attn: JOSEPH BAKER

SOIL TEST REPORT

Date Received: 2/11/2025
Date Reported: 2/14/2025

Sample ID	Lab Number	Organic Matter %	Phosphorus		Potassium K ppm	Magnesium Mg ppm	Calcium Ca ppm	Sodium Na ppm	Soil pH	Buffer pH	CEC meq/100g	Percent Cation Saturation				
			Bray-1 Equiv ppm-P	Bray P2 ppm-P								% K	% Mg	% Ca	% H	% Na
G6D	6941	1.7	1 *VL*		78 *L*	425 *M*	4150 *H*		7.8		24.5	0.8	14.5	84.7		
G6E5	6942															
G6E6	6943															
G6F	6944															

VL = Very Low *L* = Low *M* = Medium *H* = High *VH* = Very High

Sample ID	Sulfur S ppm	Zinc Zn ppm	Manganese Mn ppm	Iron Fe ppm	Copper Cu ppm	Boron B ppm	Soluble Salts (1:2) mmhos/cm	Nitrate NO_3-N ppm	Ammonium NH_4-N ppm	Bicarb-P P ppm				Comments

Report reviewed and approved by our professional agronomy staff.

Report Number
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To: BAKER SOIL SERVICES
3152 N 100 W
DECATUR, IN 46733-8384

For: GREEN FAMILY FARM
TRACT 6
TRACT 6
DUGLAY RD

Attn: JOSEPH BAKER

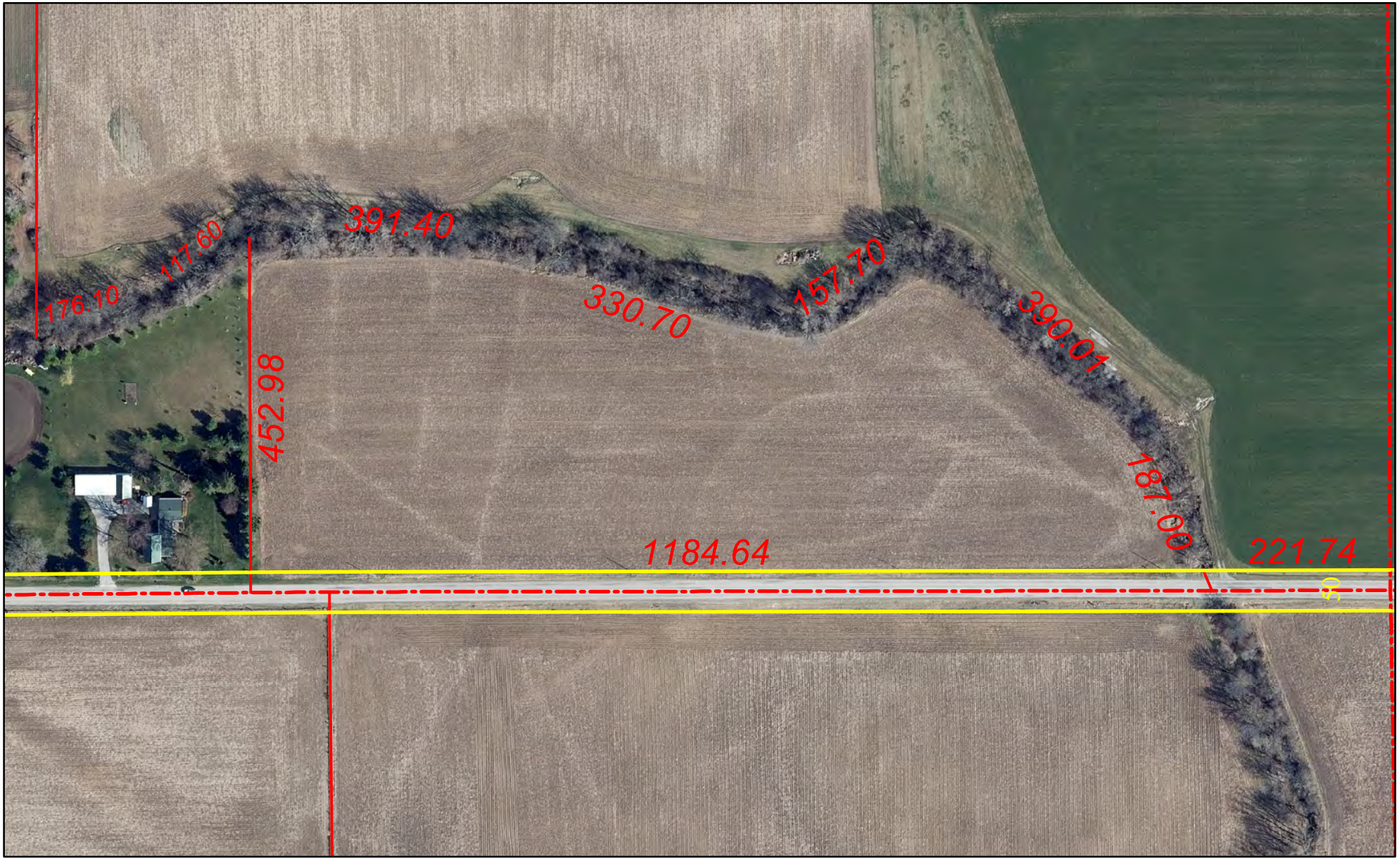
REPORT OF ANALYSIS

Date Received: 02/11/2025
Date Reported: 02/14/2025

Lab Number	Sample ID	Analysis	Result	Unit	Method
6941	G6D Soil pit D 15-20"	Cation Exchange Capacity (NH4-Sat.)	15.54	meq/100g	MSA Part 3 (1996) pp 1220-1221
		Sand	31	%	ISDH Particle Size Analysis
		Silt	31	%	ISDH Particle Size Analysis
		Clay	38	%	ISDH Particle Size Analysis
6942	G6E5 Soil pit E 12-18"	Sand	22	%	ISDH Particle Size Analysis
		Silt	38	%	ISDH Particle Size Analysis
		Clay	40	%	ISDH Particle Size Analysis
6943	G6E6 Soil pit E 21-26"	Sand	33	%	ISDH Particle Size Analysis
		Silt	29	%	ISDH Particle Size Analysis
		Clay	38	%	ISDH Particle Size Analysis
6944	G6F Soil pit F 14-19"	Sand	31	%	ISDH Particle Size Analysis
		Silt	31	%	ISDH Particle Size Analysis
		Clay	38	%	ISDH Particle Size Analysis

Report reviewed and approved by our professional agronomy staff.

Duglay Rd, Tracts 5, 6, & 7



North American Datum 1983
State Plane Coordinate System, Indiana East

N

Date: 2/17/2025 1 " = 167 '

Soil Map—Allen County, Indiana
(Duglay Rd)

Map Scale: 1:2,380 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 35 70 140 210

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

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
- 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
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
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: Allen County, Indiana
Survey Area Data: Version 24, Aug 28, 2024

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

Date(s) aerial images were photographed: Jun 18, 2022—Jun 21, 2022

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

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BmA	Blount loam, interlobate moraines, 0 to 2 percent slopes	3.4	14.6%
BmB2	Blount loam, interlobate moraines, 1 to 4 percent slopes, eroded	0.1	0.3%
Es	Eel silt loam, 0 to 2 percent slopes, frequently flooded	6.4	28.0%
MrB2	Glynwood silt loam, 2 to 6 percent slopes, eroded	4.8	21.0%
MrC2	Morley silt loam, 6 to 12 percent slopes, eroded	7.2	31.3%
Pe	Pewamo silty clay loam, 0 to 1 percent slopes	1.1	4.9%
Totals for Area of Interest		**23.0**	**100.0%**