

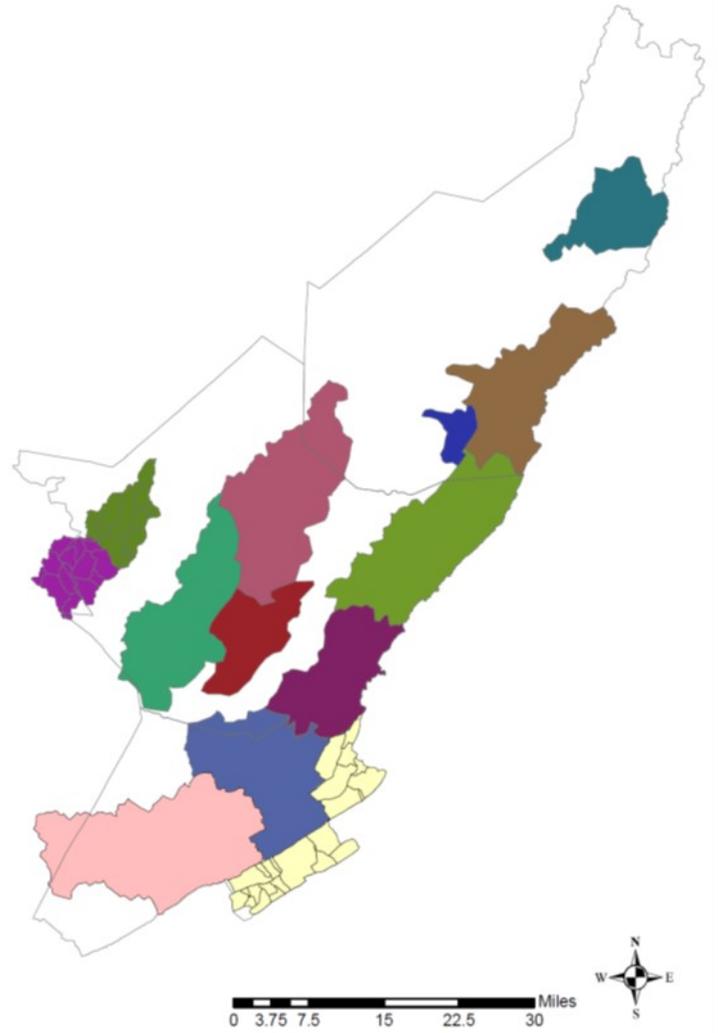
Greenbrier Valley 319 Update



West Virginia
Conservation Agency

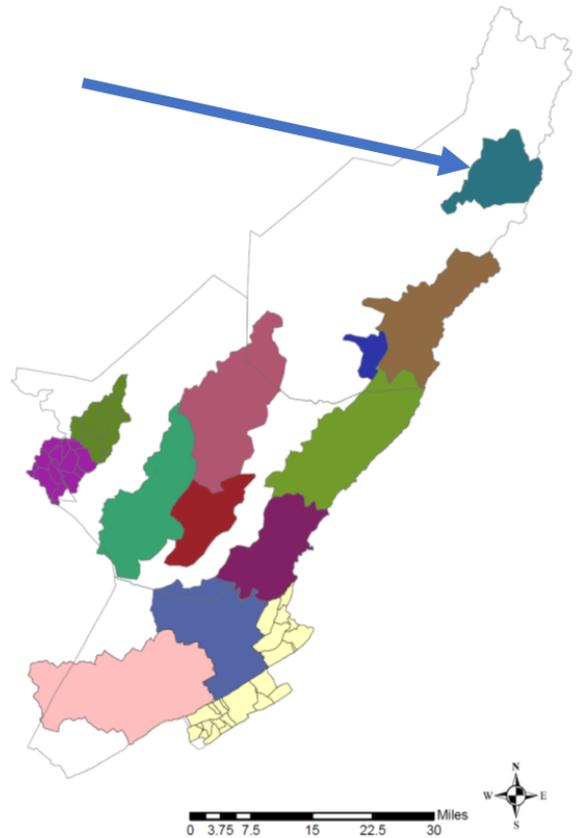


Total Area in the GVCD With Direct 319 Influ.



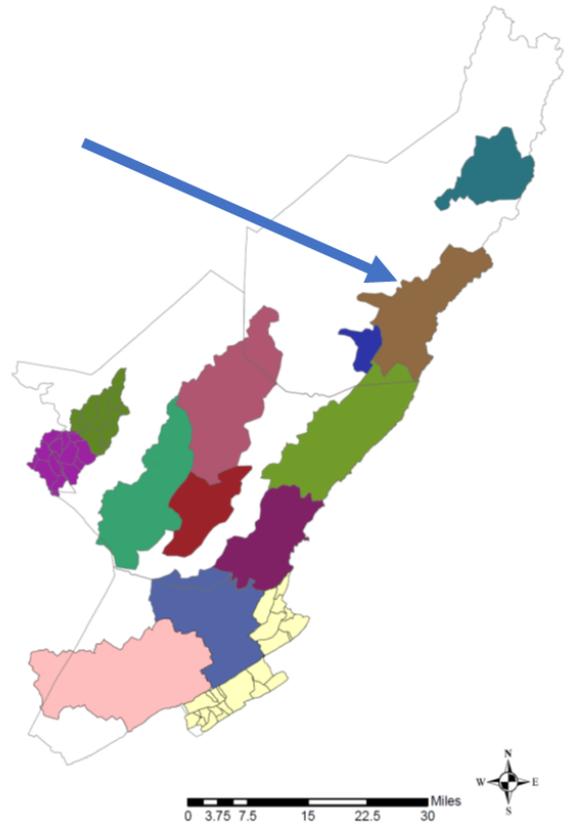
Deer Creek

- Selected by NRCS For a Focus Conservation Area
- WVCA will assist with monitoring
- Fecal Coliform Impairment
- Home to the endangered Candy Darter



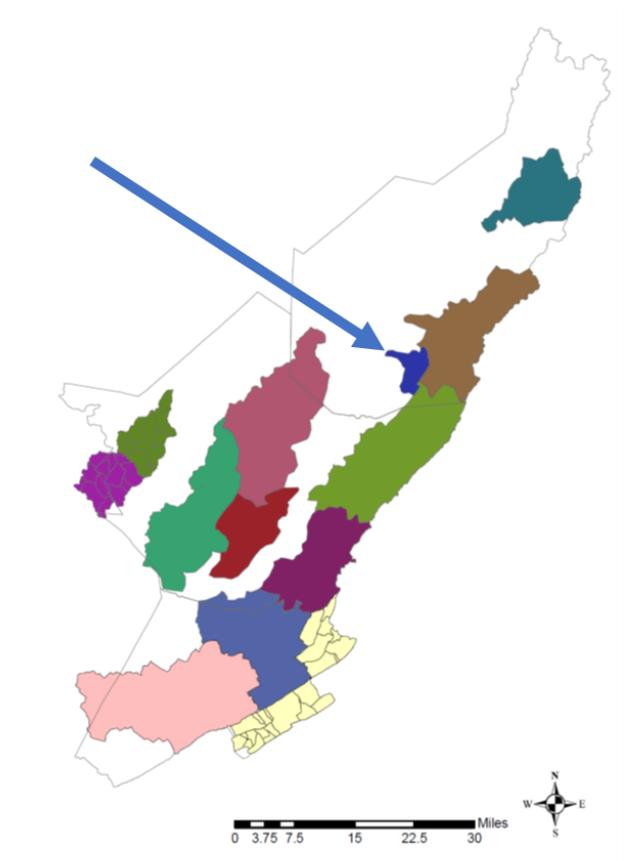
Knapp Creek

- Current Activity:
Continuing to monitor
- Projects included NSR
and Ag BMP's
- This was the states first
NWQI area
- Suspected home to
endangered Candy
Darters



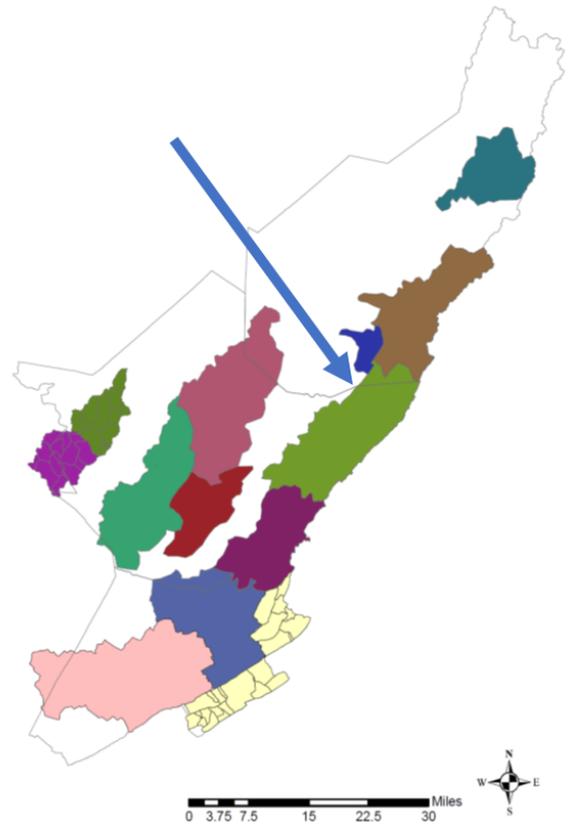
Beaver Creek

- Current Activity: None due to lack of landowner interest
- Practices would have included addressing failing septic systems



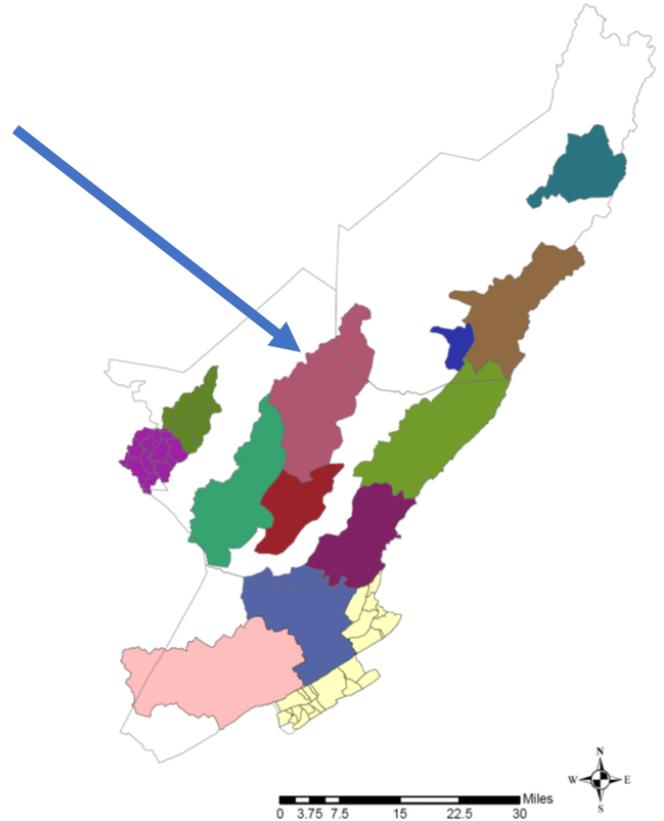
Anthony Creek

- Current Activity: Pre-Monitoring and Conservation Planning
- Proposed NRCS FCA area
- Proposed 319 project area
- BMP's to include NSR and Ag BMP's



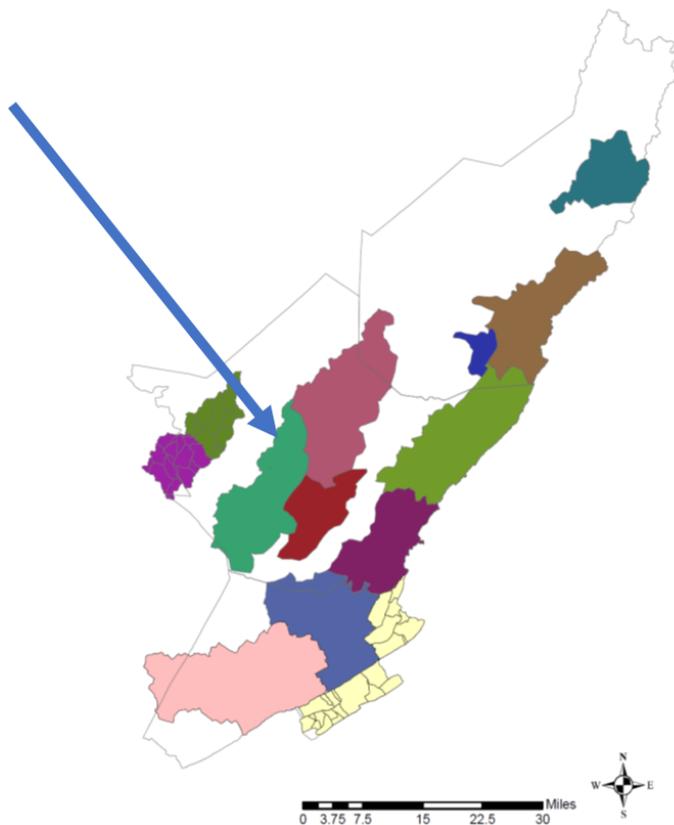
Spring Creek

- Current Activity: Conservation planning and practice implementation
- The project should be re-written to include the entire watershed due to slow interest by landowners



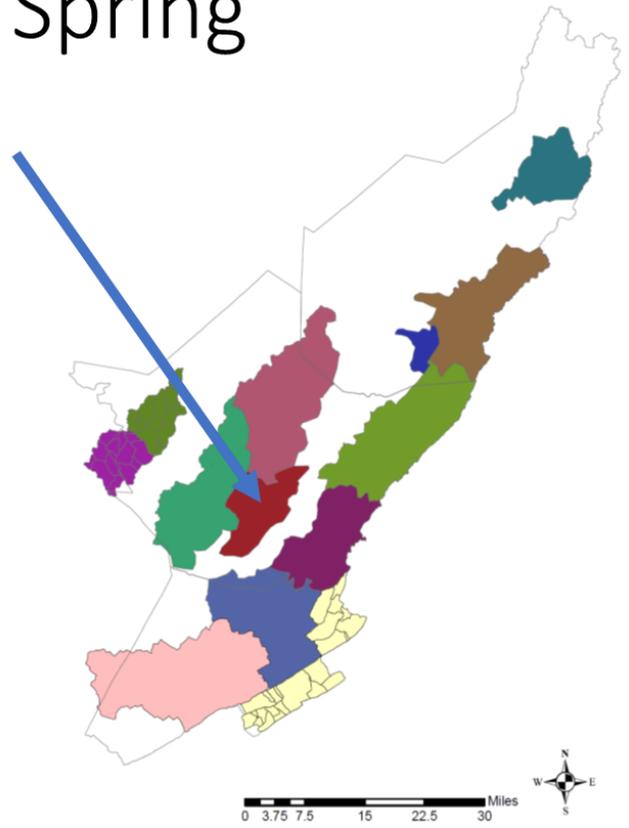
Muddy Creek

- Current Activity: None, this is a past project that needs a revised watershed based plan to move forward with



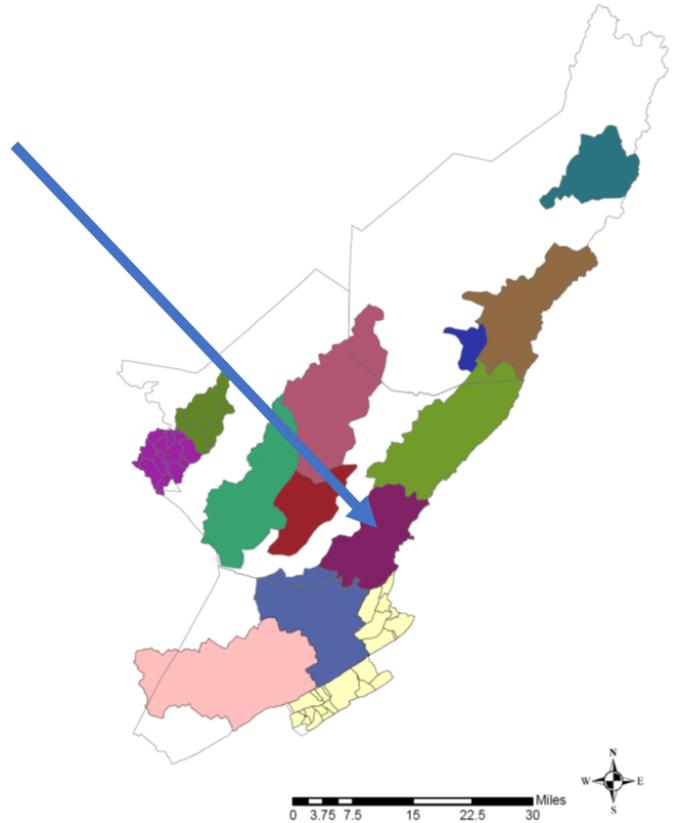
Milligan Creek/Davis Spring

- Current Activity: Post Monitoring
- Past project that excluded livestock from the stream and sensitive karst features



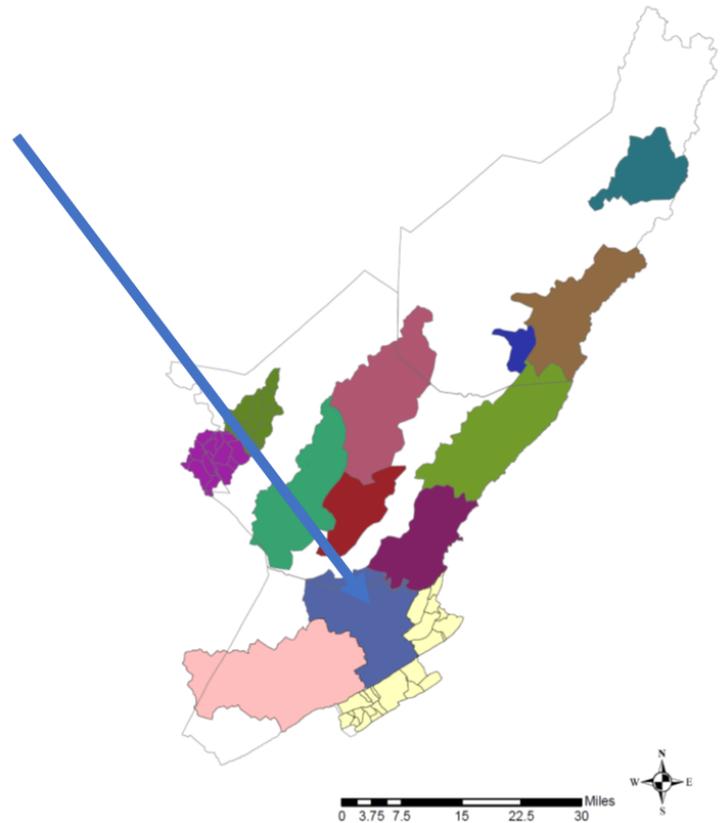
Howards Creek

- Current Activity:
Design and Outreach
- 4000 ft NTR project in search of funding
- Outreach project with U.S. Fish and Wildlife Service



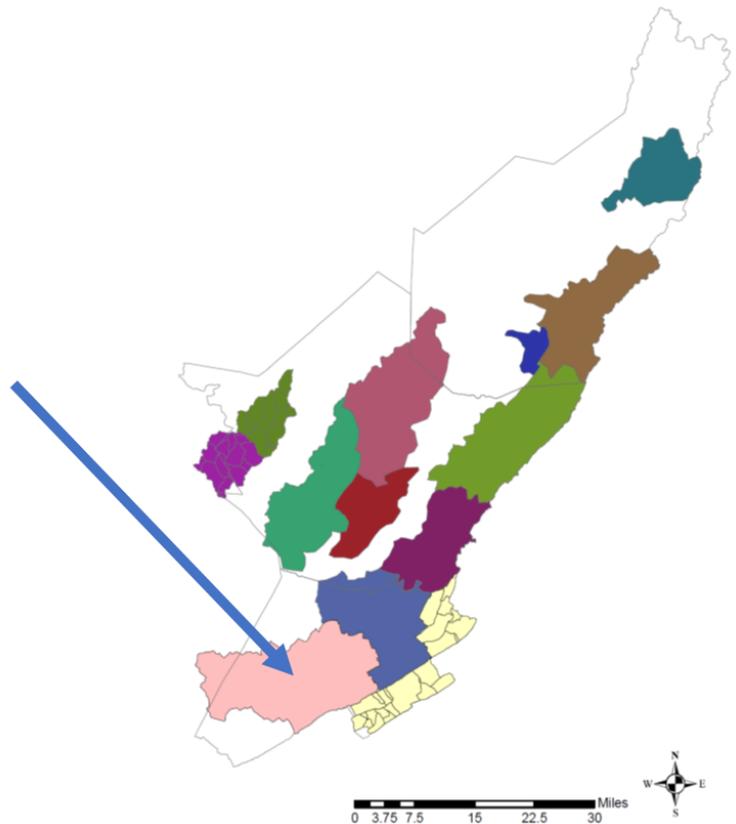
Second Creek

- Current Activity: Conservation Planning, BMP Instillation, Monitoring
- Ongoing and oldest overall project
- Currently revising the watershed based plan



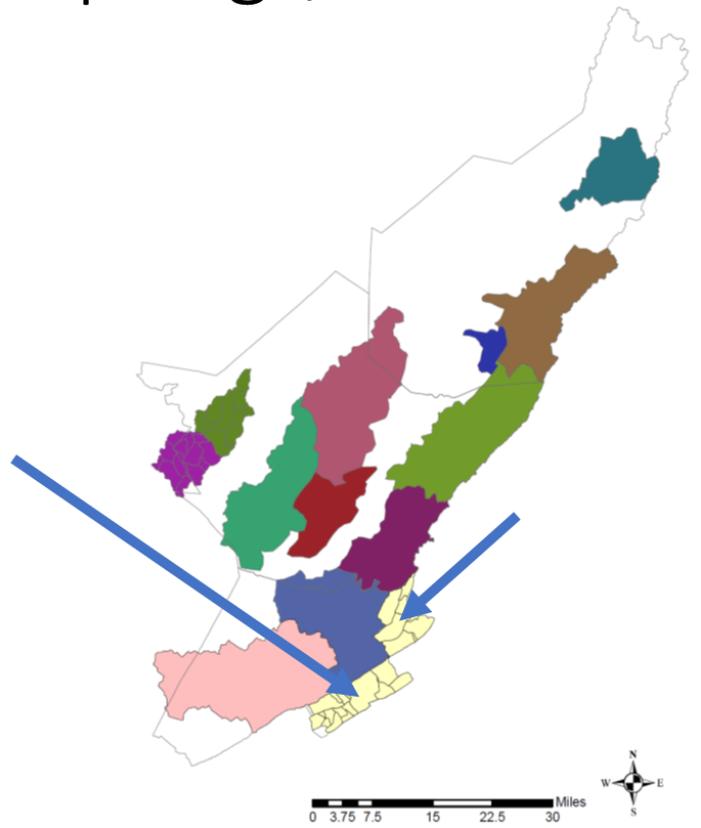
Indian Creek

- Current Activity:
Conservation Planning,
BMP Instillation,
Monitoring
- NWQI and FCA area
- Currently revising the
watershed based plan
to comply with NRCS
NWQI requirements.



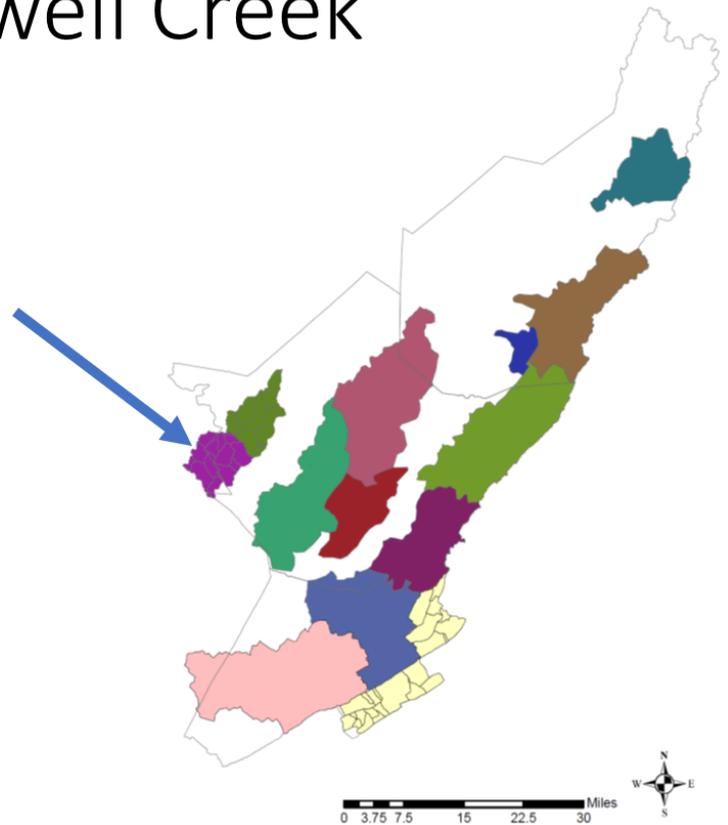
James River (Sweet Springs/Potts Creek)

- Current Activity: Conservation Planning, BMP Instillation, Monitoring
- Chesapeake Bay Watershed
- Home to the endangered James Spinney Mussel



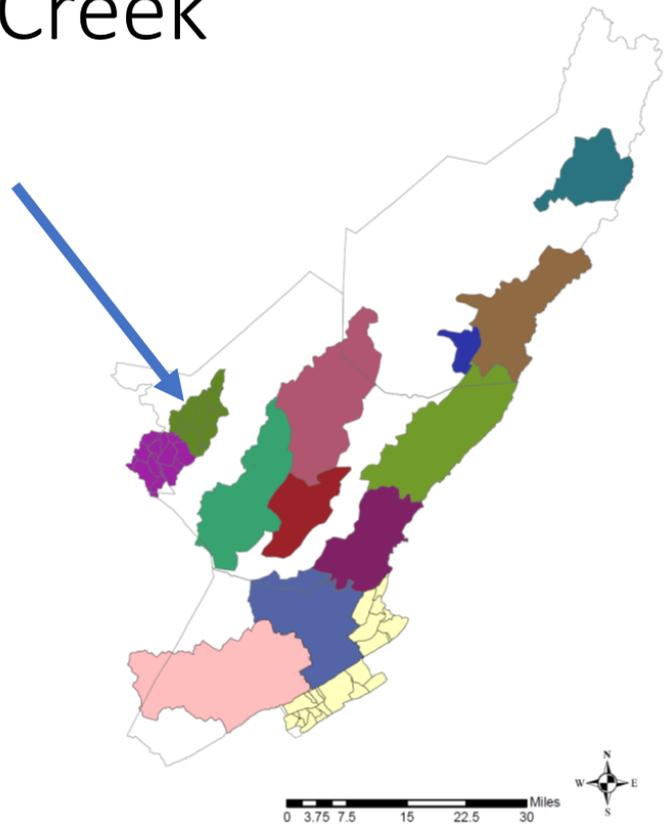
Meadow River Sewell Creek

- Current Activity: Post Monitoring
- BMP's included septic system repairs and replacements
- Initial indications show potential for extremely high load reductions

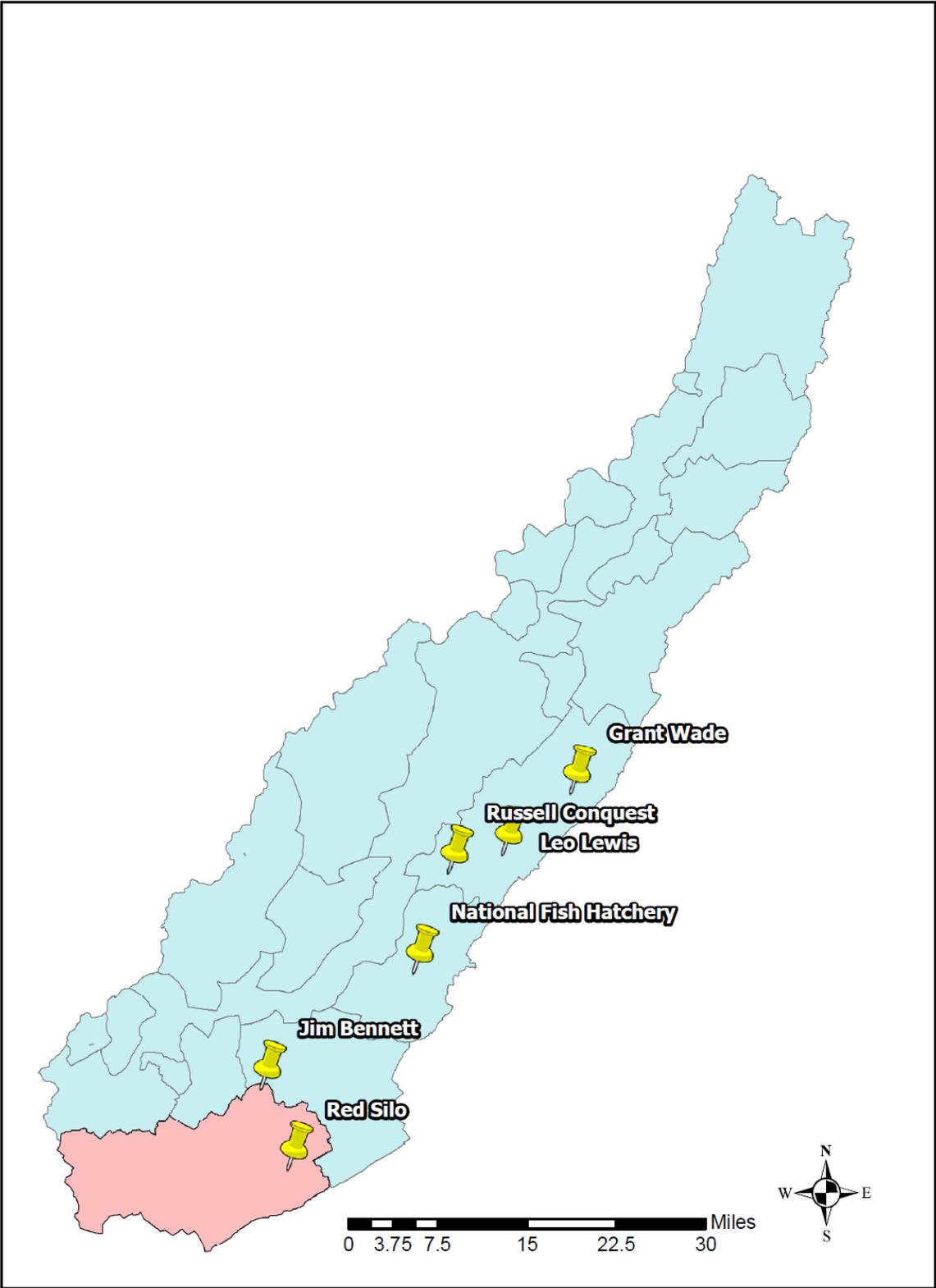


Meadow River Mill Creek

- Current Activity:
Conservation Planning
and Pre Monitoring
- BMP's will include
streambank
stabilization and septic
practices.



2019 Greenbrier Valley Conservation District EPA Tour of 319 Projects



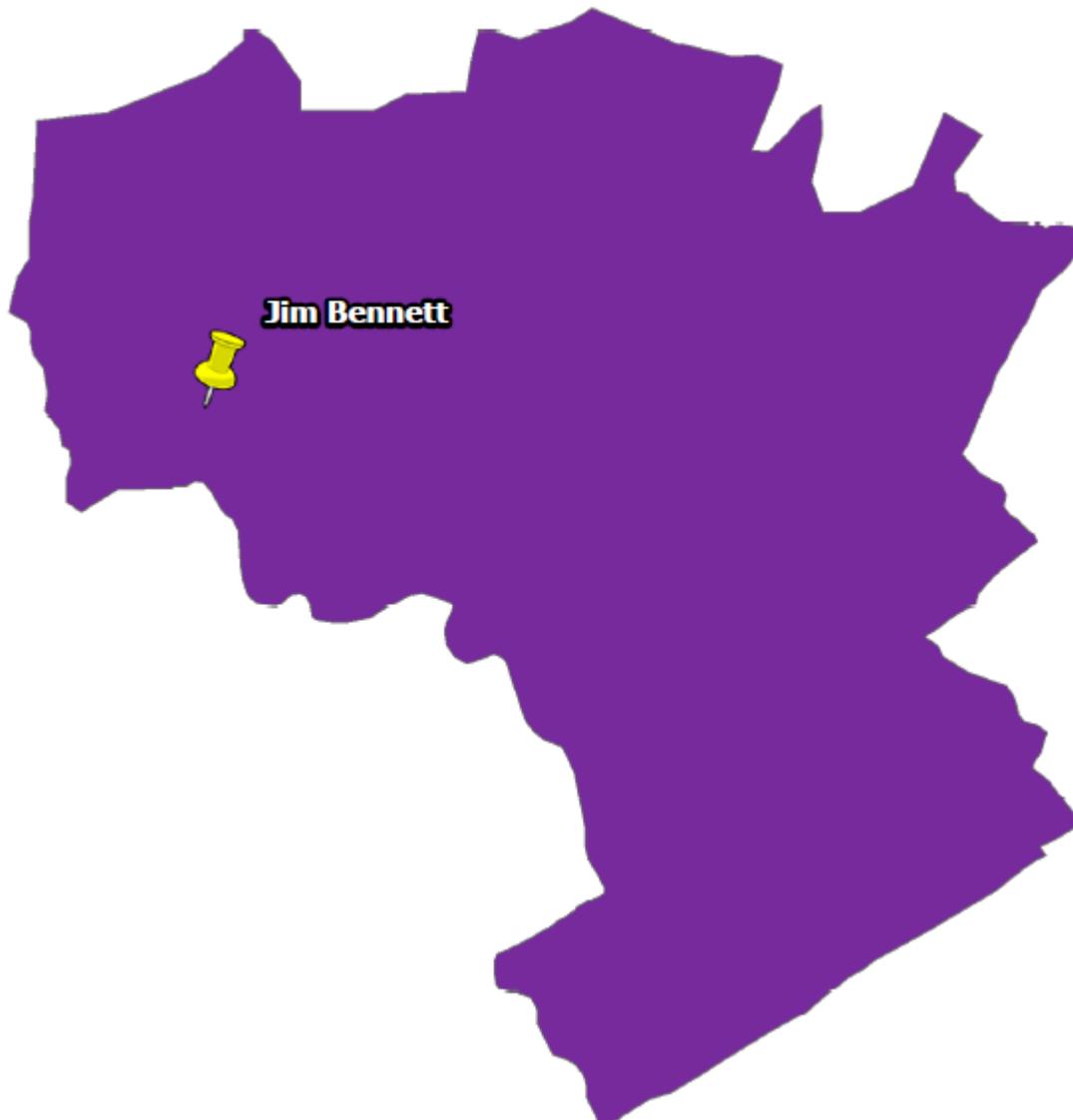
Stop #1

Landowner : Jim Bennett

Watershed: Second Creek

NPS#1587

Note: This farm is 100% karst with numerous sink holes that provide a direct drain into Second Creek. The Purpose of this project was to distribute grazing and prevent waste from concentrating around sensitive areas. Practices included 2300 feet of Pasture Division Fence, a well, 1424 feet of pipe-line, 3 water troughs, 1900 sqft of heavy use area protection, nutrient management and prescribed grazing,





Stop #2

Landowner : Red Silo Farm

Watershed: Indian Creek, Burnside Branch

NPS# 1650 & 1706

Note: This farm is a Cow/calf operation with 320 mamma cows. The plan includes ~ 1,000 acres (including woodlots), ~ 25 troughs on the farm (7 new installed thru NWQI), 2 pond ramps, 4 wells on the farm (1 new installed thru NWQI), Fencing installed thus far thru NWQI, 9,200' division fence, 16,000' exclusion fence, Fencing planned but not installed yet, ~ 4,000' division fence, ~ 1,300' exclusion fence, 10 ponds excluded, 1 spring planned to be excluded, ~ 13,000' of pipeline installed



RED SILOS FARM LLC

Monroe County, West Virginia

Farm No. 980 Tract No. 971

Farm No. 2793 Tract Nos. 1123, 1590, 2430

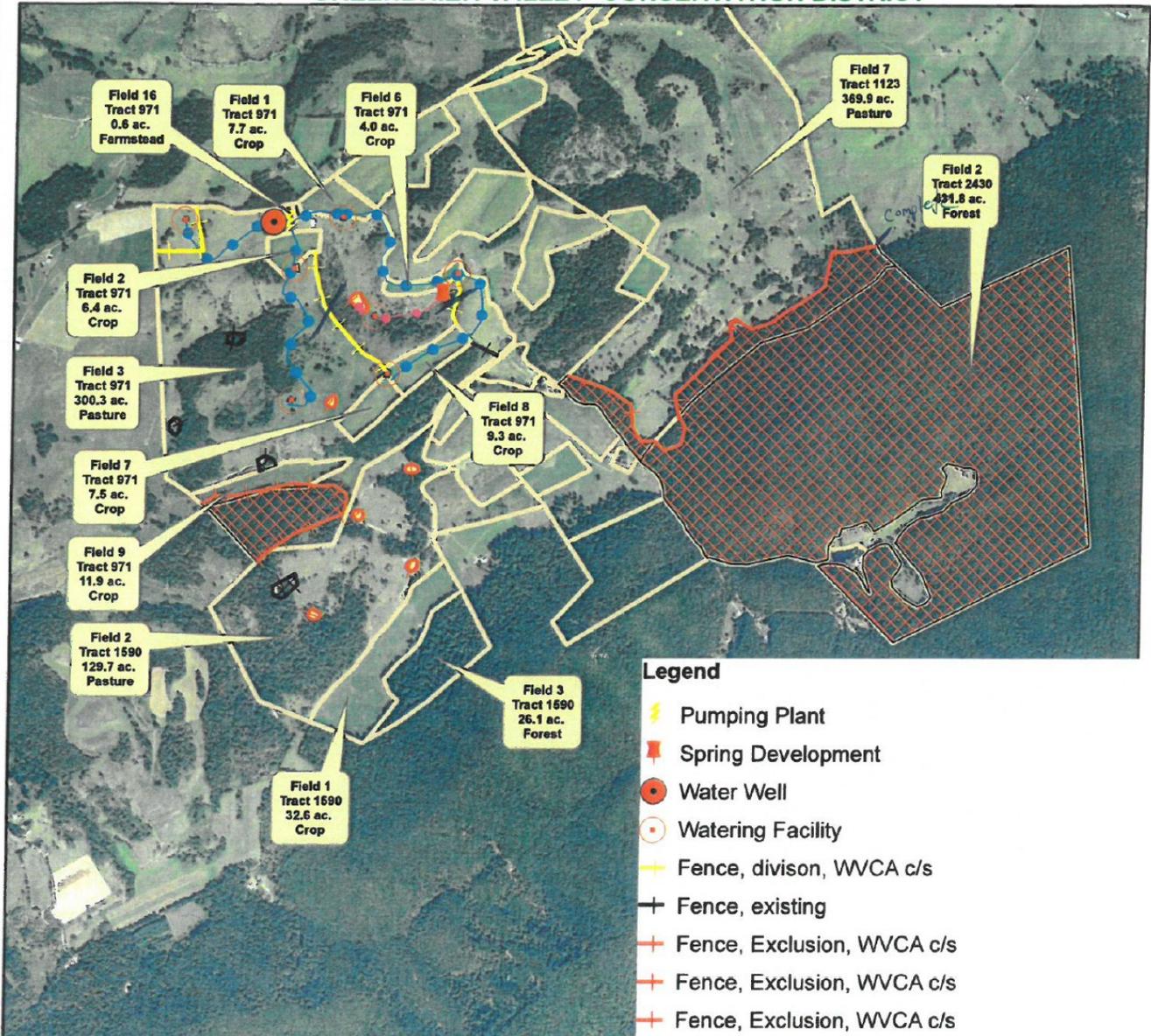


USDA-NRCS

Union Field Office

Assisted By: WANDA SMITH

GREENBRIER VALLEY CONSERVATION DISTRICT



Legend

- Pumping Plant
- Spring Development
- Water Well
- Watering Facility
- Fence, division, WVCA c/s
- Fence, existing
- Fence, Exclusion, WVCA c/s
- Livestock Pipeline, gravity
- Livestock Pipeline, pressurized
- Access Control, existing
- Access Control, Pond Exclusion
- Access Control, Spring Exclusion
- Access Control, Stream and Woodland Exclusion
- Heavy Use Area Protection
- Consplan

Prepared with assistance from USDA-Natural Resources Conservation Service



Stop #3

Landowner : National Fish Hatchery

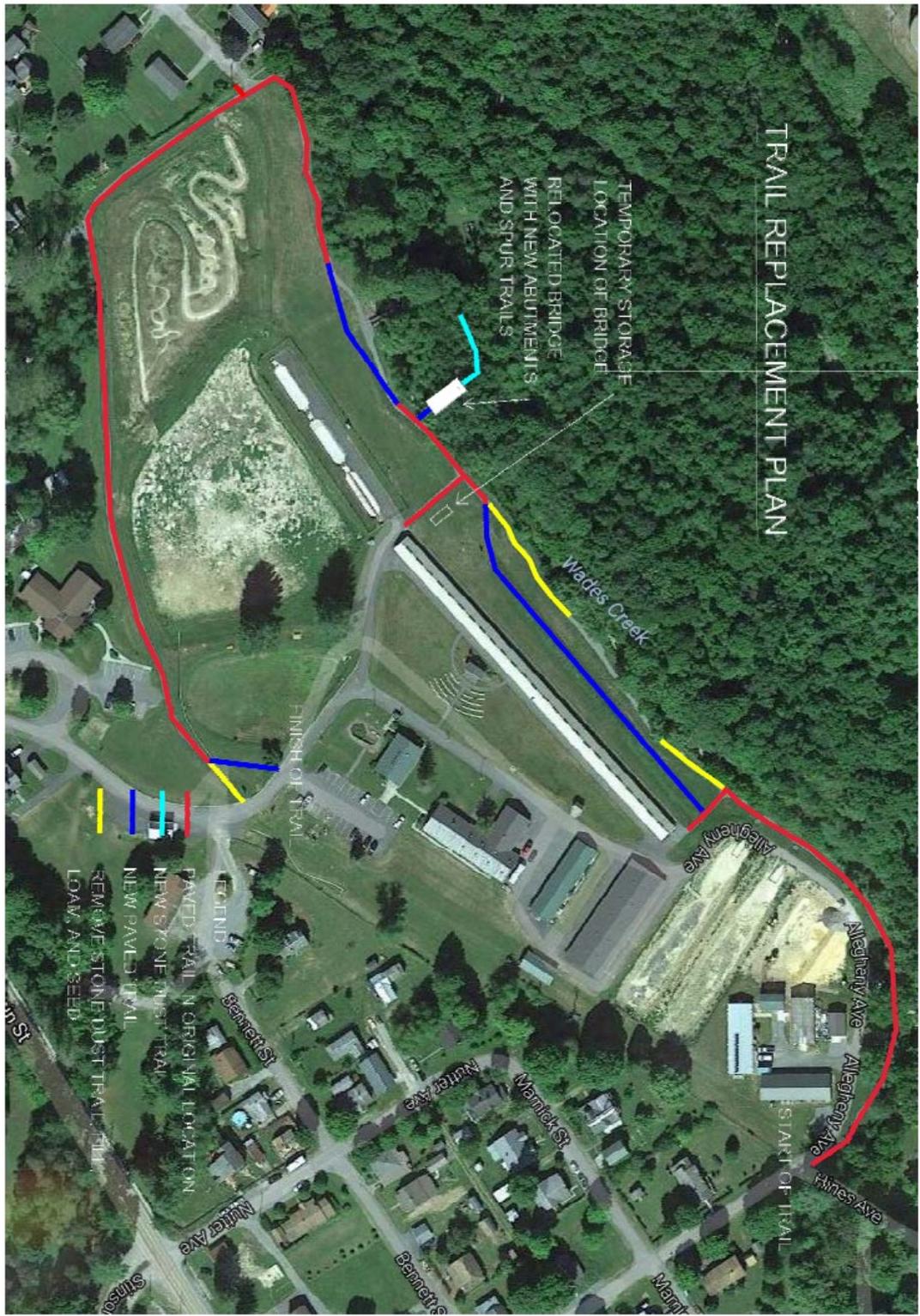
Watershed: Howards Creek

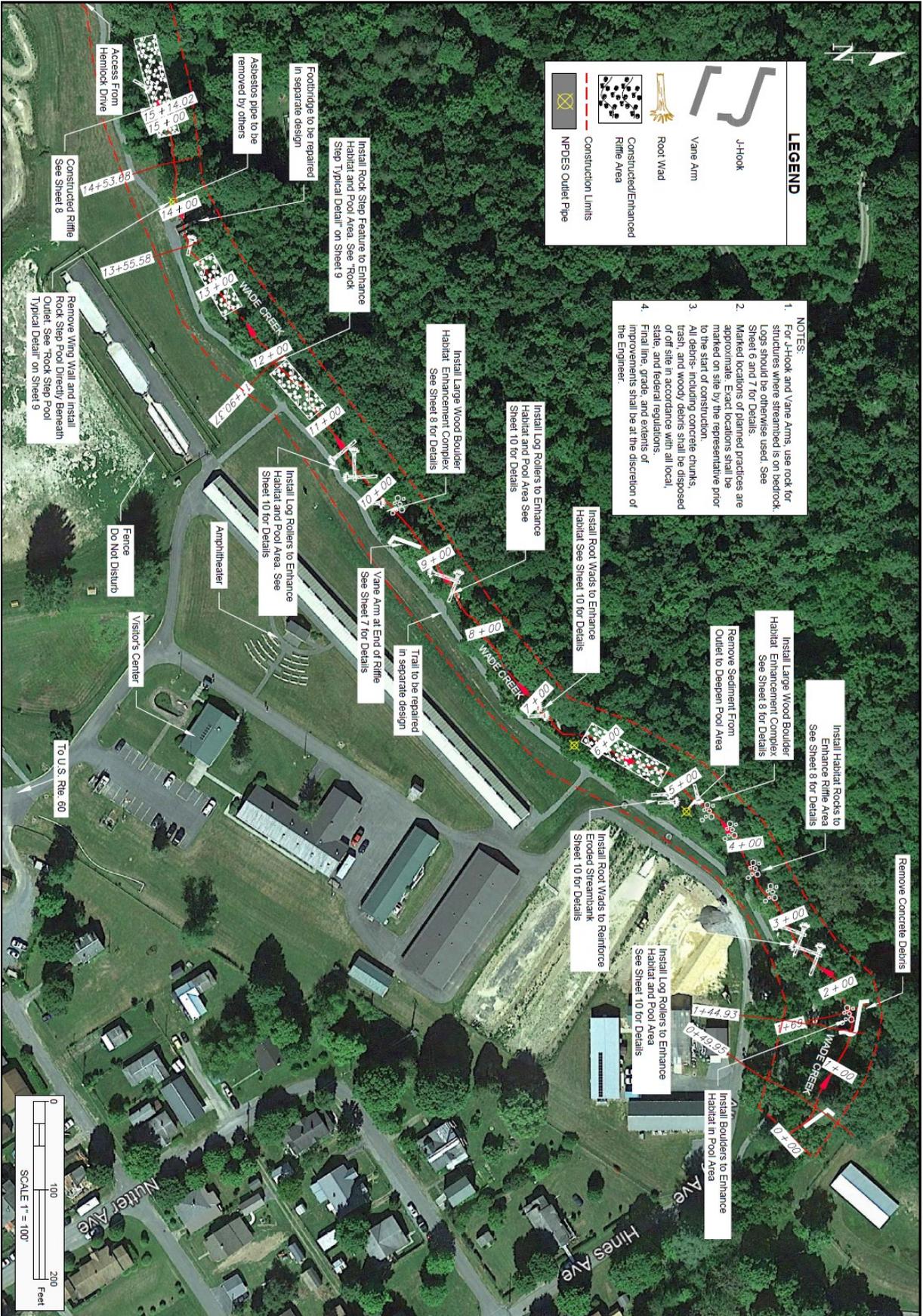
NPS# N/A (Reported to 319 Base)

Note: These projects were implemented in conjunction with the U.S. Fish and Wildlife Service as a way to not only restore habitat but also develop an outdoor classroom that can be used for outreach events and everyday use by the general public



TRAIL REPLACEMENT PLAN





LEGEND

- J-Hook
- Vane Arm
- Root Wad
- Constructed/Enhanced Rifle Area
- Construction Limits
- NPDES Outlet Pipe

- NOTES:**
1. For J-Hook and Vane Arms, use rock for structures where streambed is on bedrock. Logs should be otherwise used. See Sheet 6 and 7 for Details.
 2. Marked locations of planned practices are approximate. Exact locations shall be marked on site by the representative prior to the start of construction.
 3. All debris, including concrete chunks, trash, and woody debris shall be disposed of off site in accordance with all local, state, and federal regulations.
 4. Final line, grade, and extents of improvements shall be at the discretion of the Engineer.

<p>United States Department of Agriculture</p> <p>Natural Resources Conservation Service</p>	<p>WHITE SULPHUR SPRINGS NATIONAL FISH HATCHERY</p> <p>STREAM RESTORATION PROJECT</p> <p>GREENBORO COUNTY, WV</p> <p>PLAN VIEW</p>		<p>Date</p> <p>08/2018</p>
	<p>Designed</p> <p>JCW</p>	<p>Drawn</p> <p>JCW</p>	<p>08/2018</p>
	<p>Checked</p> <p>DLD</p>	<p>08/2018</p>	<p>08/2018</p>
	<p>Approved</p> <p>DLD</p>	<p>08/2018</p>	<p>08/2018</p>

FILE NO. _____

DRAWING NO. 8/31/18 10:28 AM

SHEET 3 OF 12

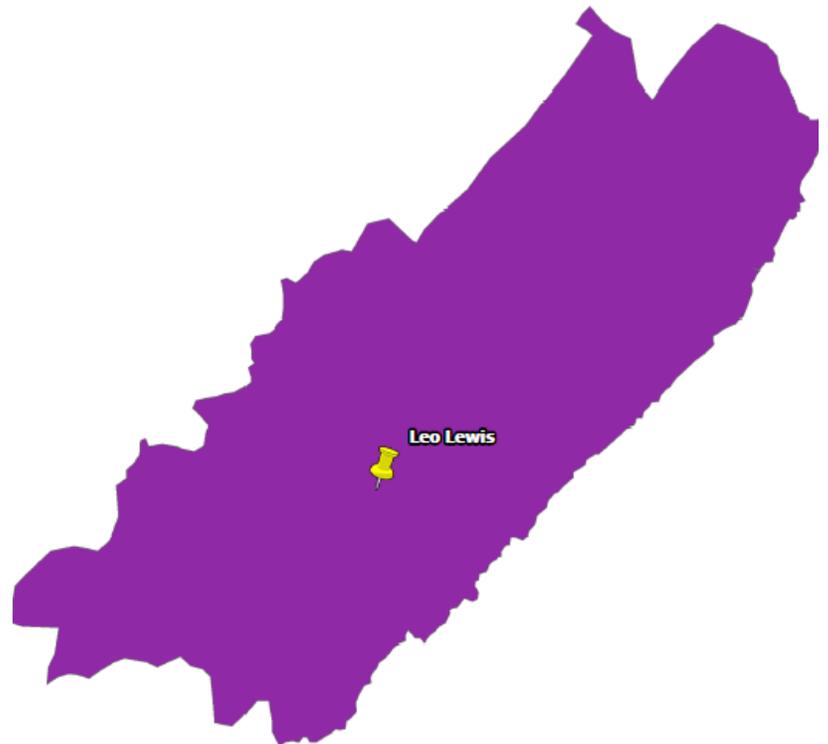
Stop #4

Landowner : Leo Lewis

Watershed: Anthony Creek

NPS# N?A

Note: This is a potential project that will reduce sediment buildup in the stream, restore habitat, and reduce bacteria by eliminating its carrier.



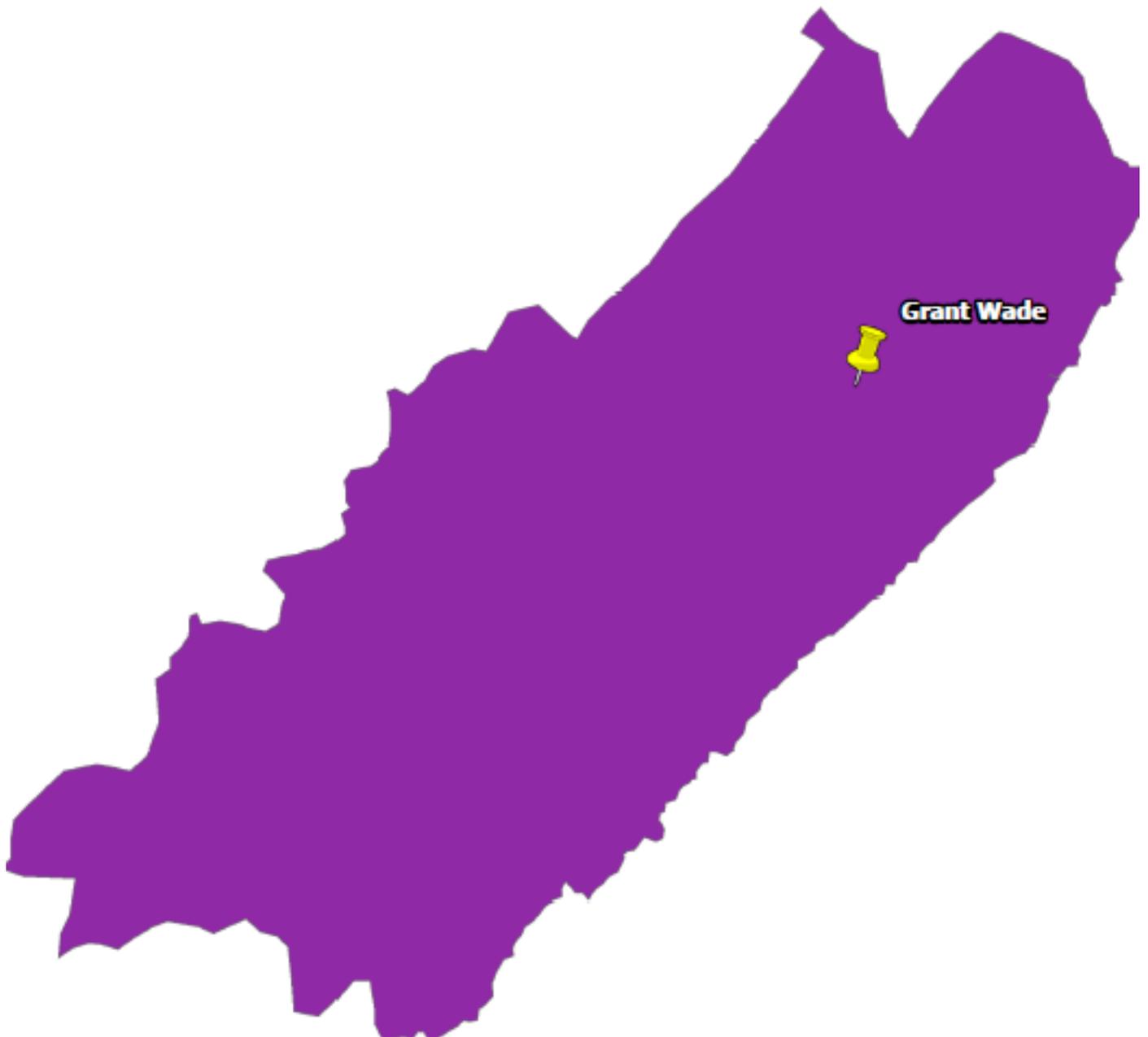
Stop #5

Landowner : Grant Wade

Watershed: Anthony Creek

NPS# N/A

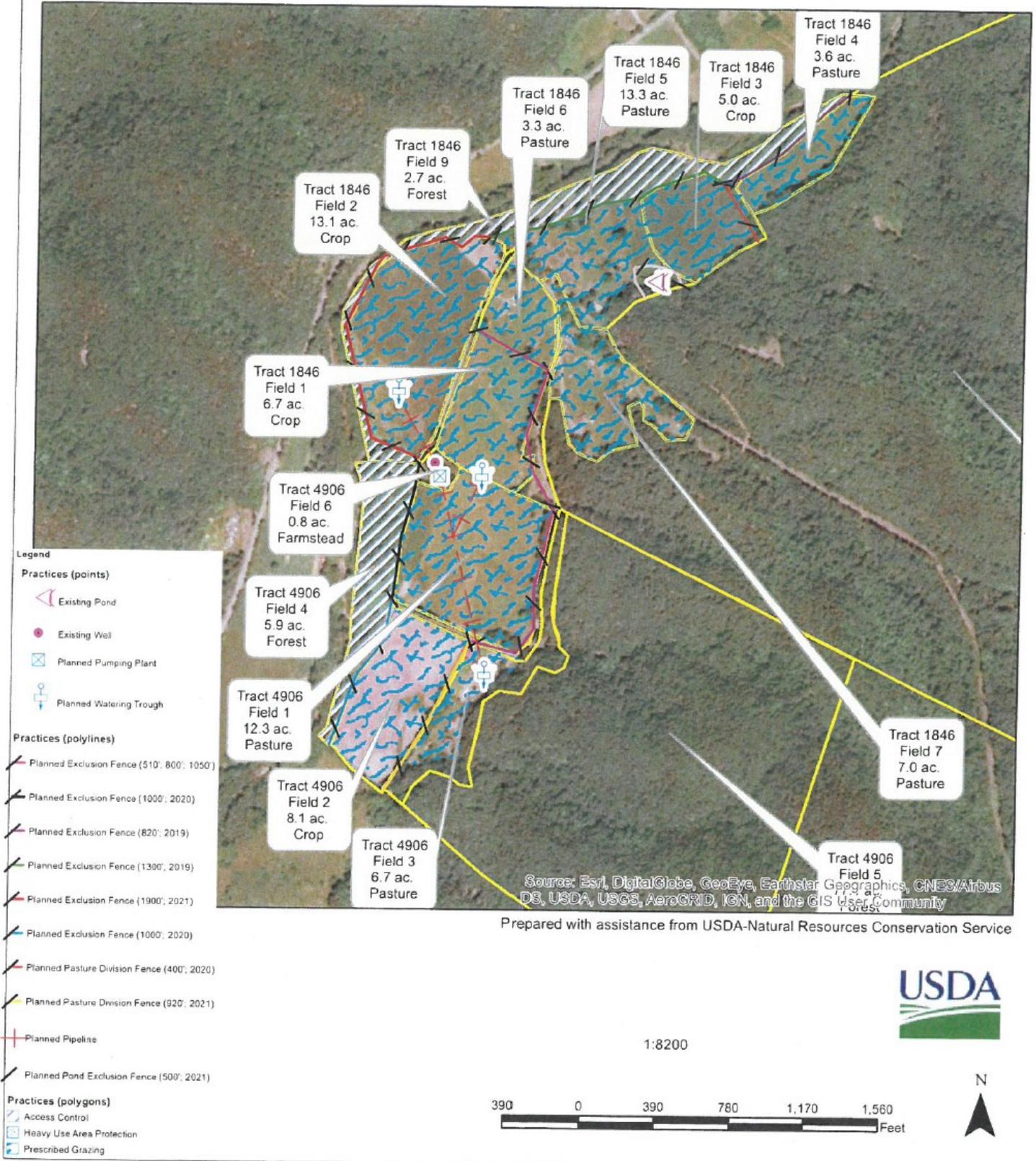
Note: This is a potential project that intends to prevent sediment build up in the stream and reduce livestock influence in the waterway, reducing fecal coliform bacteria. Fencing for this project has already been approved by NRCS and will be awaiting 319 funding for streambank stabilization.



Customer(s): KENNETH G WADE
 District: GREENBRIER VALLEY CONSERVATION DISTRICT

Field Office: LEWISBURG SERVICE CENTER
 Agency: USDA-NRCS
 Assisted By: Katy McBride
 State and County: WV, Greenbrier County, West

Legal Description: F42 T1846 F65 T4906





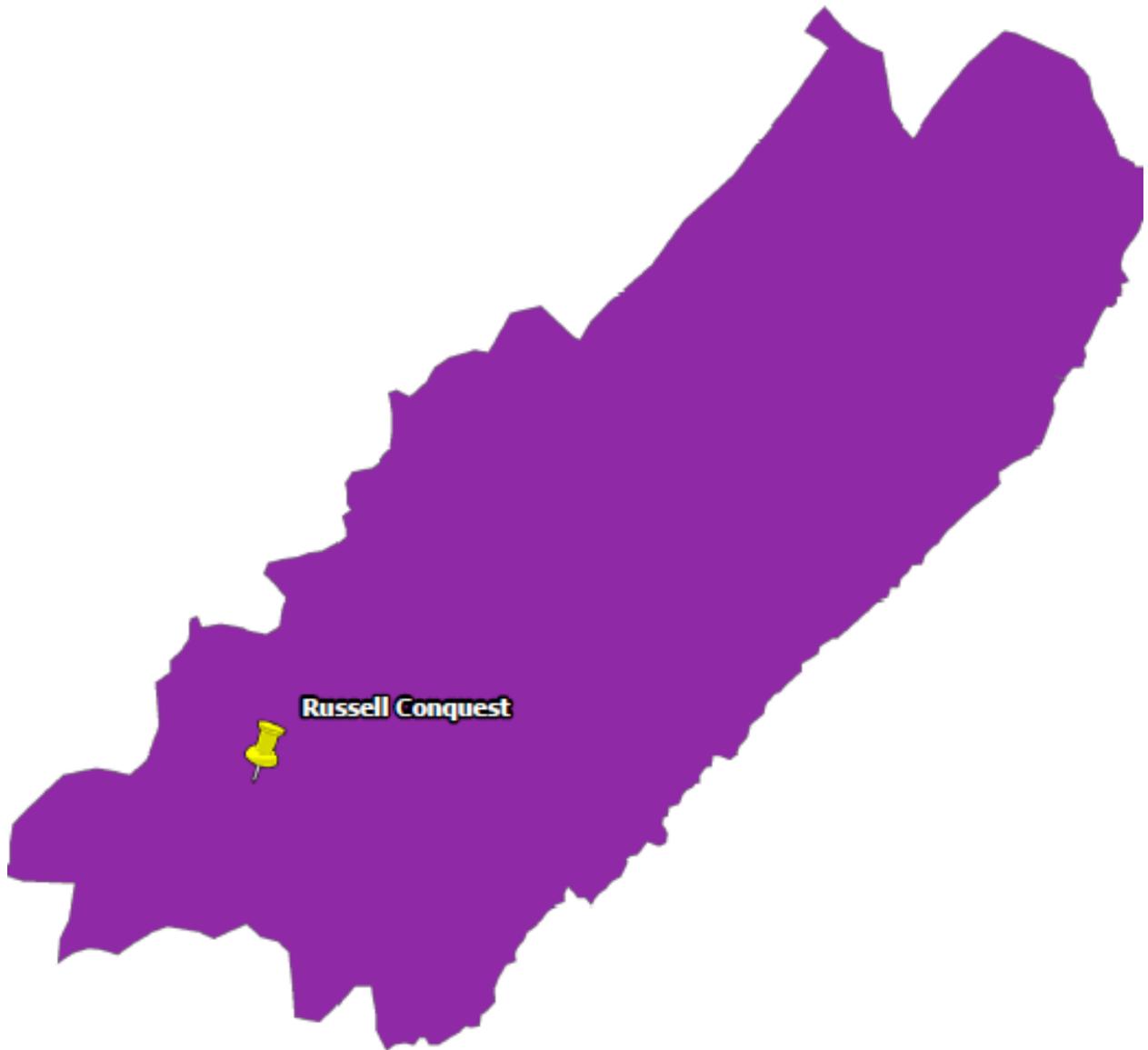
Stop #6

Landowner : Russell Conquest

Watershed: Anthony Creek

NPS# 1602

Note: This project stabilized a failing streambank to protect a CREP area, preventing livestock from entering the stream and reducing fecal coliform bacteria in the watershed.







BEHI

843

80

■ pre const. tons/yr. soil loss

■ post const. tons/yr. soil loss