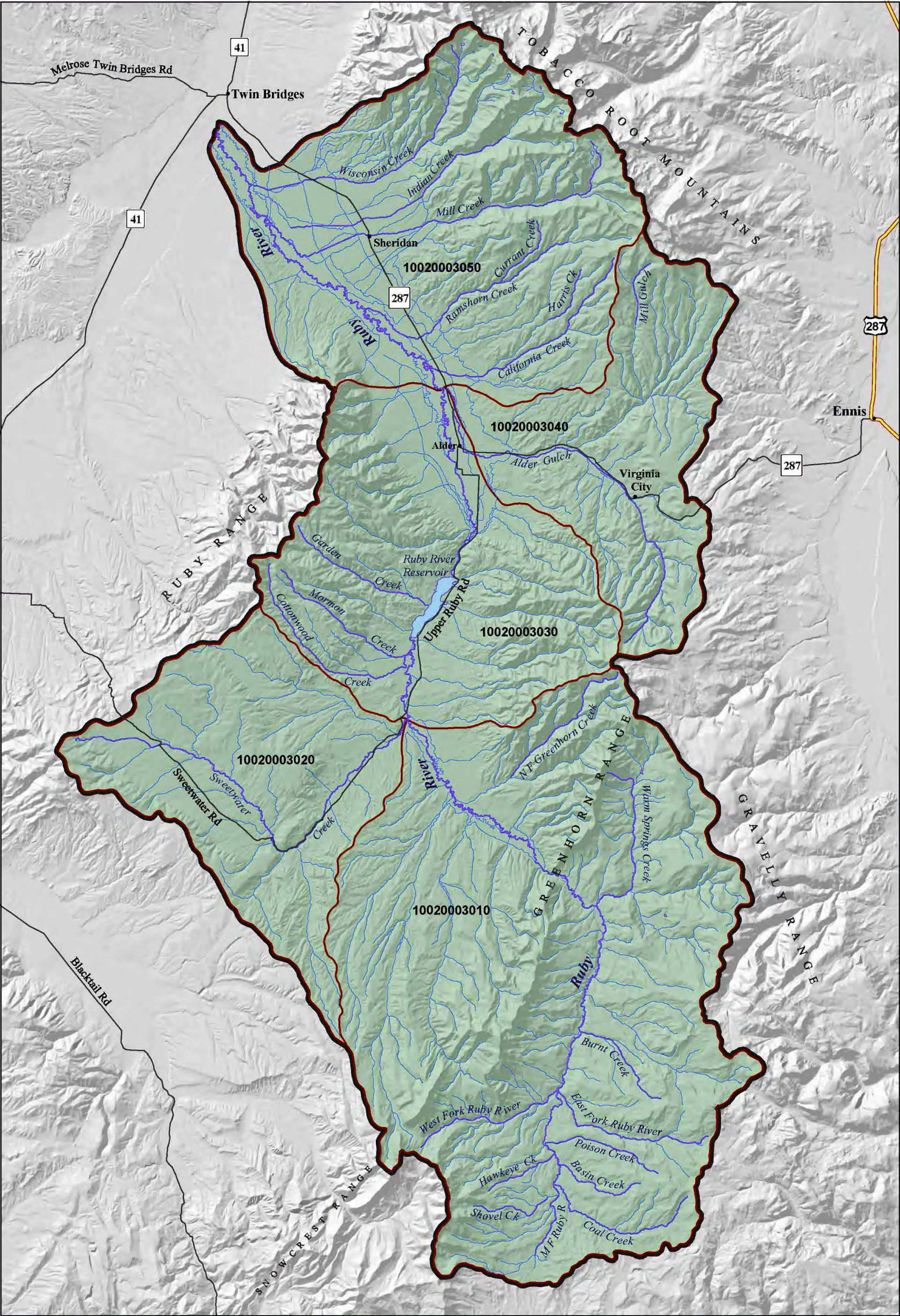


APPENDIX A

MAPS

- Map 1. Overview
- Map 2. Sampling Sites Reach Locations
- Map 3. Sediment Sources
- Map 4. Geology of Ruby River TPA
- Map 5. Vegetation Types
- Map 6. West-Slope Cutthroat Trout
- Map 7. Mine Locations
- Map 8. Ownership
- Map 9. NPDES Point Sources
- Map 10. TSS Sampling
- Map 11. Mercury Sampling
- Map 12. Irrigation Diversions
- Map 13. Lead Sampling
- Map 14. Phosphorous Sampling
- Map 15. Nitrogen Sampling

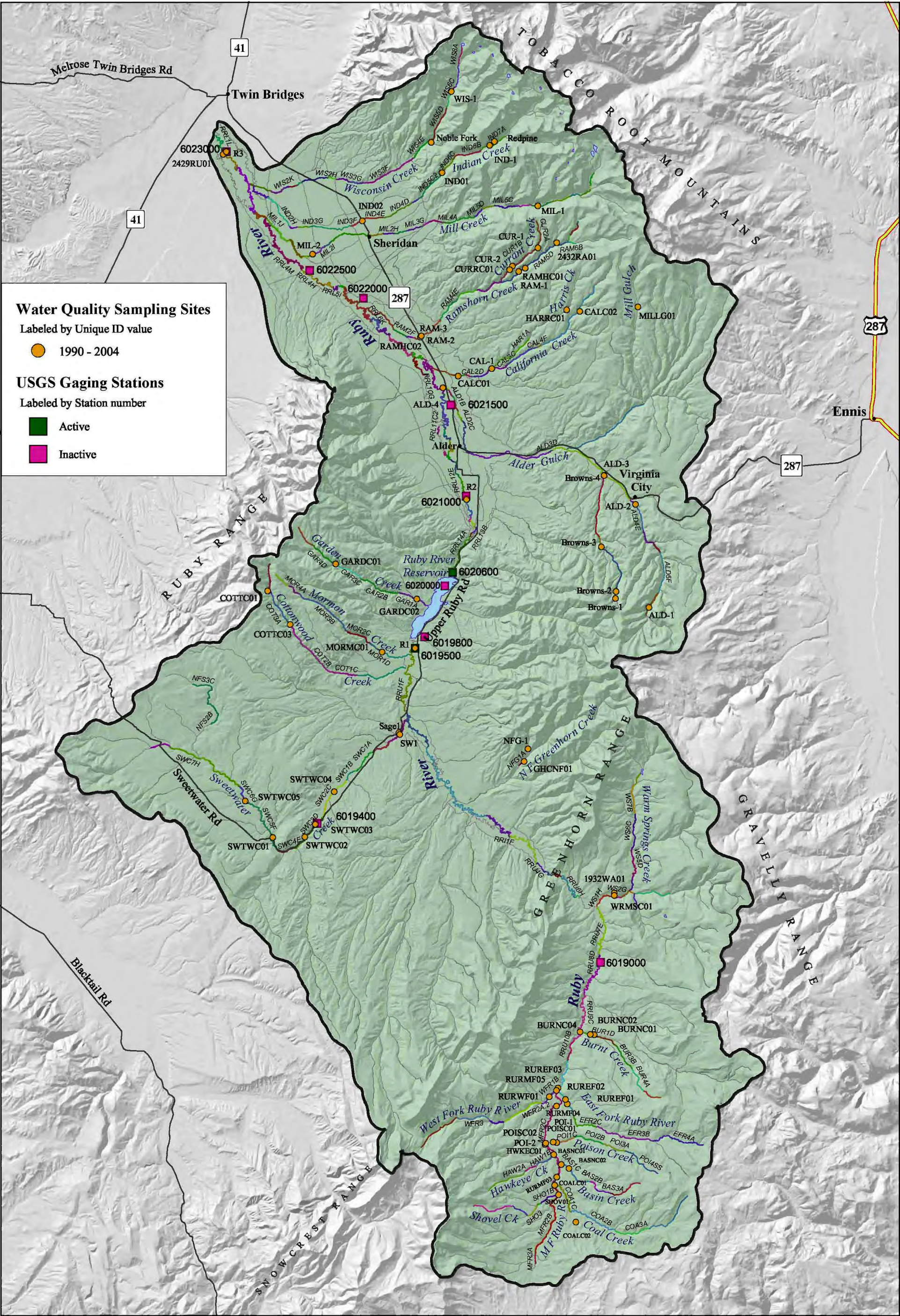


Map 1. Overview of Ruby River TPA

Legend Data Sources: USGS, US Census, MDEQ, NRCS • City / Town	Stream / River* US Highway Local Road	Lake / Reservoir HUC 5th Code Boundaries Ruby Watershed Boundary	* 303 (d) 1996 Listed Streams are displayed in a thicker line weight and are labeled.
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Scale 1" = 4 Miles
Montana State Plane Coordinate System
Lambert Conformal Conic Projection
North American Datum 1983

Montana
Ruby River Watershed



Map 2. Sampling Sites and Reach Locations

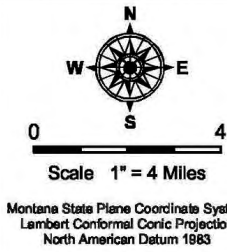
Legend

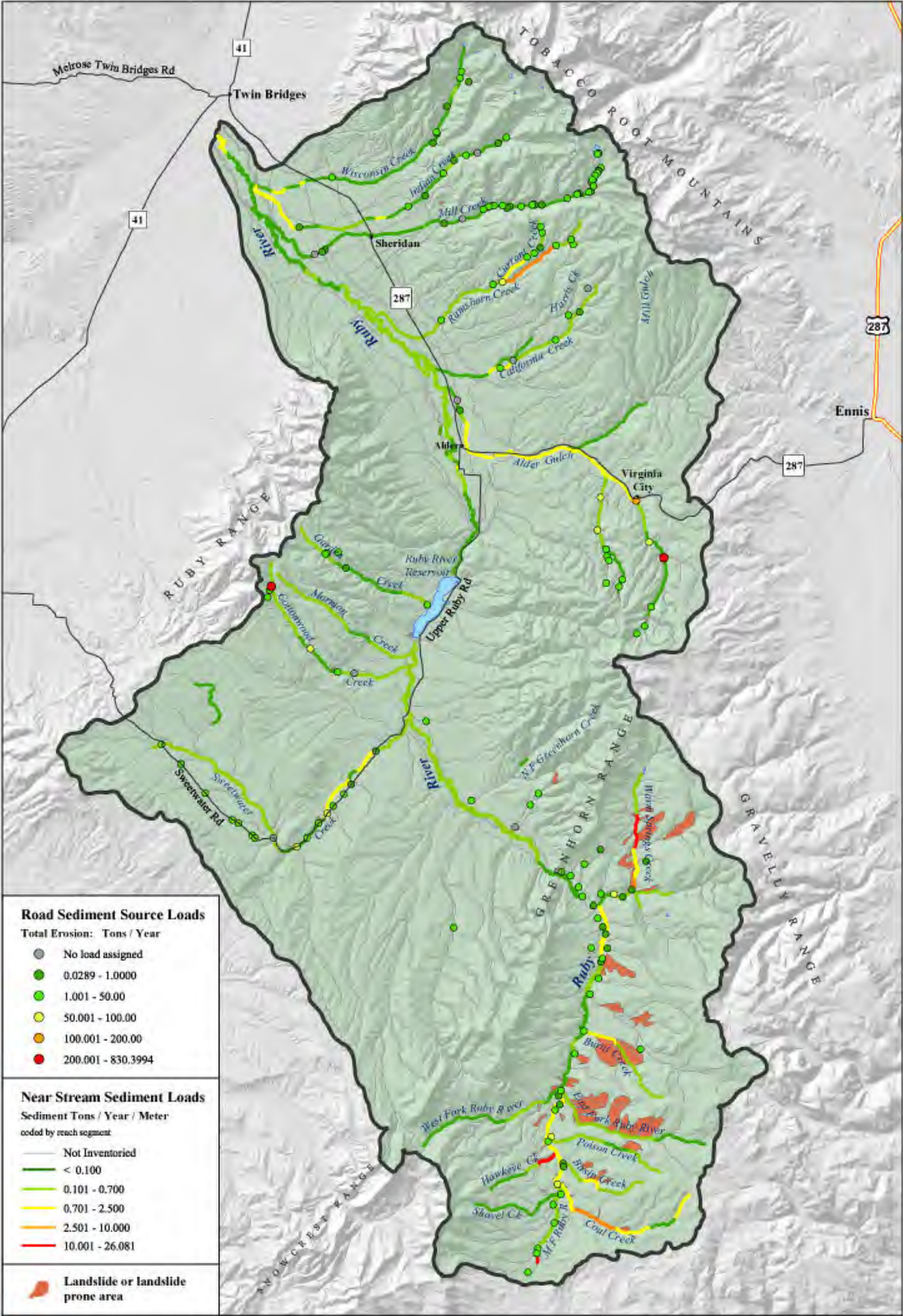
Data Sources:
USGS, US Census,
MDEQ, NRCS, WsC

- City / Town
- US Highway
- Local Road
- Stream / River*
- Lake / Reservoir
- Ruby Watershed Boundary

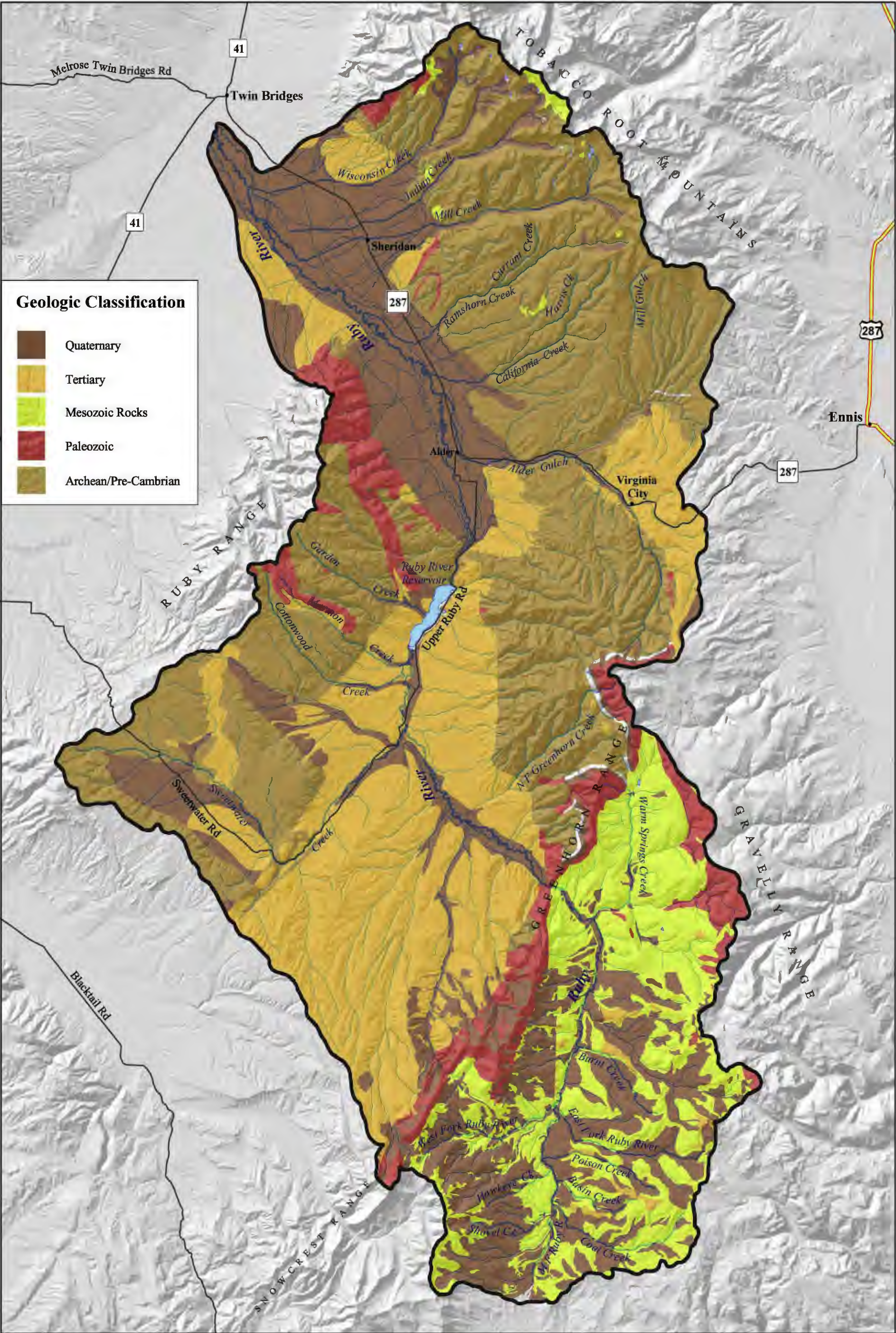
* Reach segments are color coded and labeled by their unique ID value. Non-listed streams are colored grey.

Not all reach labels are shown on the map.





Map 3. Sediment Source Loads from Road Inventory



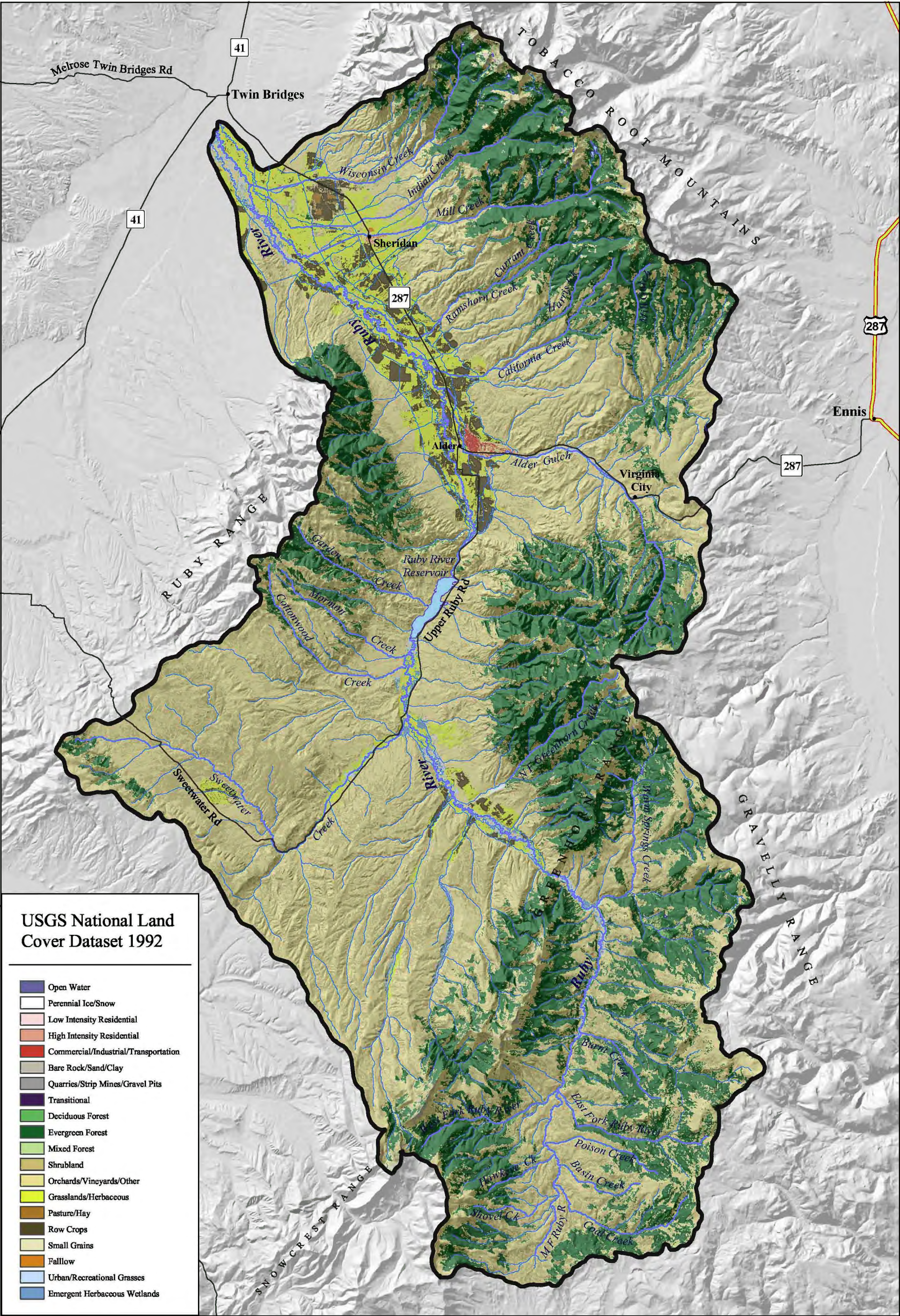
Map 4. Geology of Ruby River TPA

Legend	• City / Town	Stream / River
US Highway	Lake / Reservoir	Ruby Watershed Boundary
Local Road		

Data Sources:
USGS, US Census,
MDEQ, NRCS, MBMG

Scale 1" = 4 Miles
Montana State Plane Coordinate System
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North American Datum 1983

Montana
Ruby River Watershed



Map 5. Vegetation Types

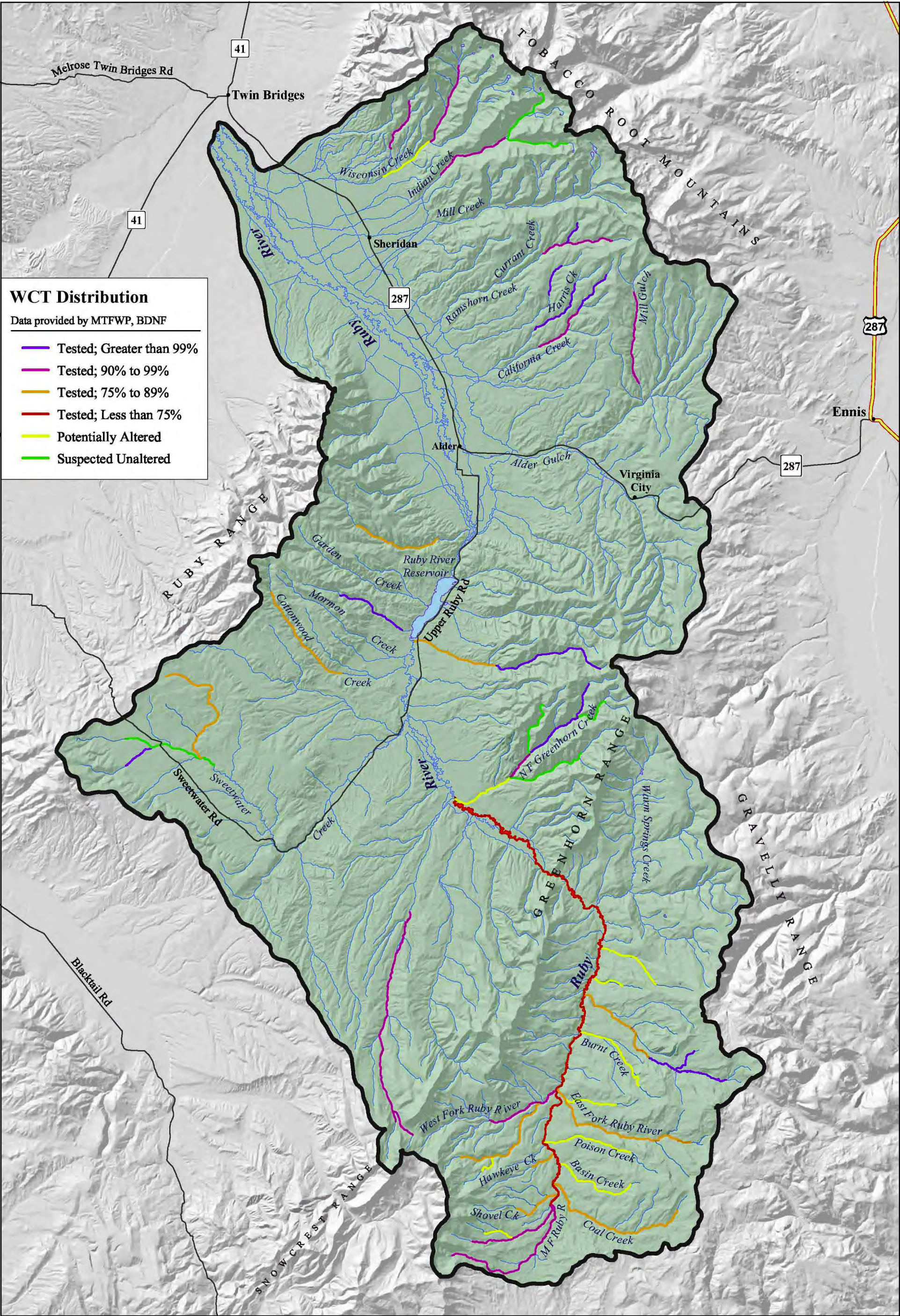
Legend	• City / Town	Stream / River
US Highway	Lake / Reservoir	
Local Road	Ruby Watershed Boundary	

Data Sources:
USGS, US Census,
MDEQ, NRCS

0 4
Scale 1" = 4 Miles
Montana State Plane Coordinate System
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North American Datum 1983

Montana

Ruby River Watershed



WCT Distribution

Data provided by MTFWP, BDNF

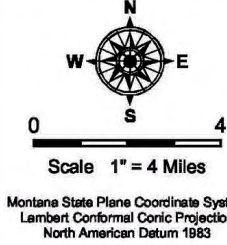
- Tested; Greater than 99%
- Tested; 90% to 99%
- Tested; 75% to 89%
- Tested; Less than 75%
- Potentially Altered
- Suspected Unaltered

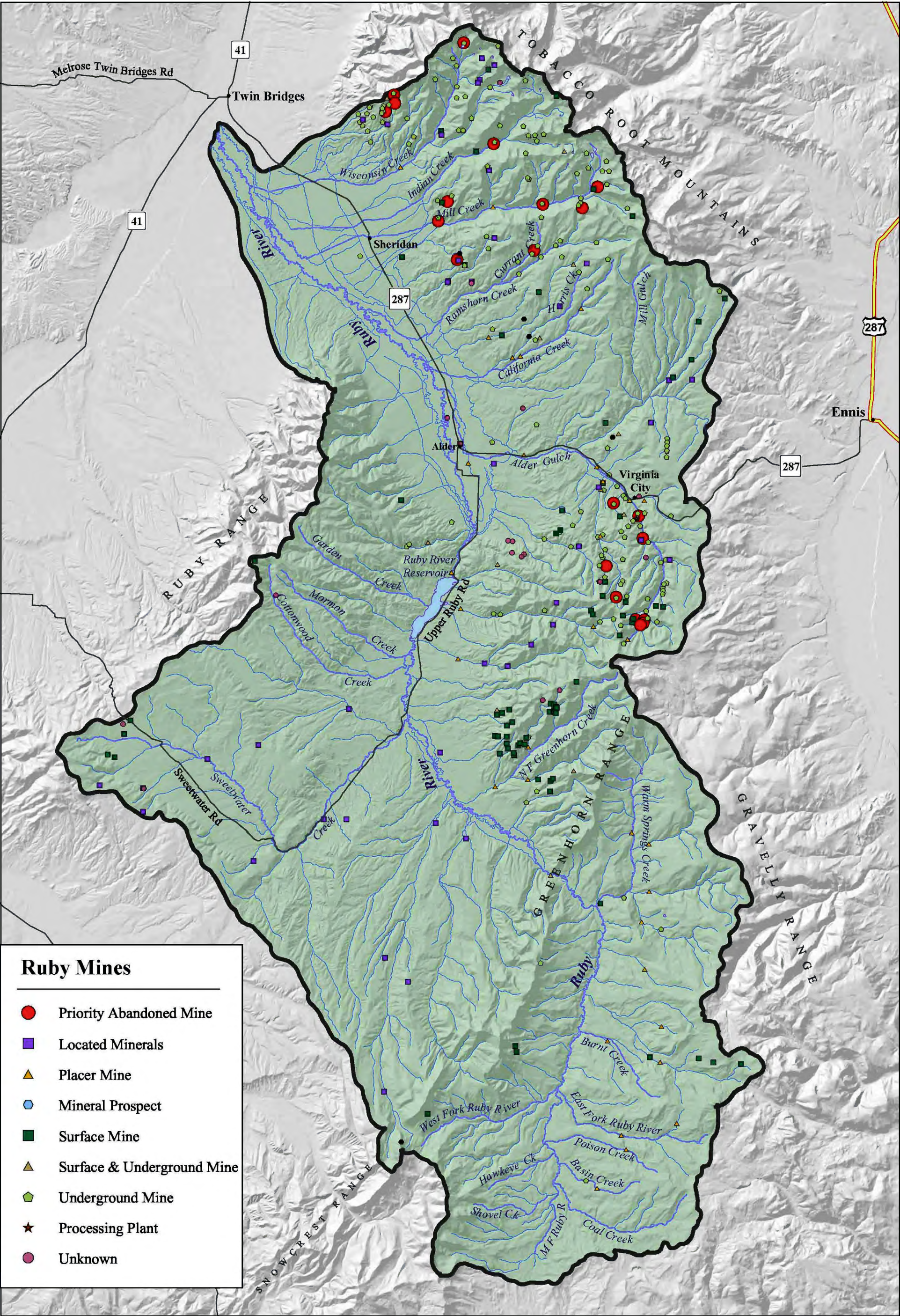
Map 6. West-slope Cutthroat Trout Distribution

Legend

Data Sources:
USGS, US Census, MDEQ,
NRCS, MTFWP, BDNF

- City / Town
- US Highway
- Local Road
- Stream / River
- Lake / Reservoir
- Ruby Watershed Boundary





Ruby Mines

- Priority Abandoned Mine
- Located Minerals
- ▲ Placer Mine
- ⬡ Mineral Prospect
- Surface Mine
- ▲ Surface & Underground Mine
- ⬡ Underground Mine
- ★ Processing Plant
- Unknown

Map 7. Mine Locations

Legend

• City / Town

— US Highway

— Local Road

— Stream / River

— Lake / Reservoir

— Ruby Watershed Boundary

Data Sources:
USGS, US Census, MDEQ
NRCS, US Bureau of Mines

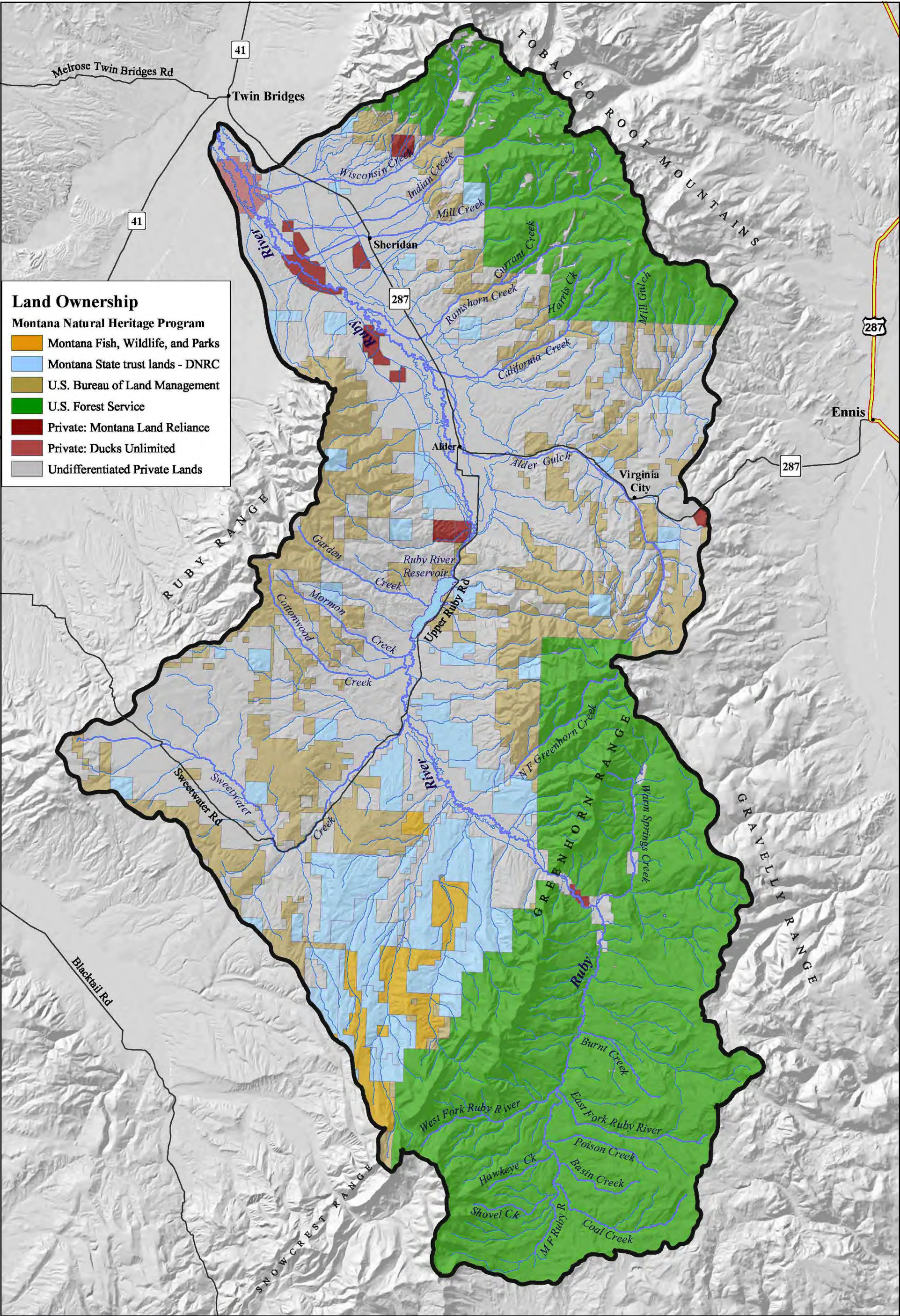
0 4

Scale 1" = 4 Miles

Montana State Plane Coordinate System
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North American Datum 1983

Montana

Ruby River Watershed



Map 8. Ownership

Legend	• City / Town	Stream / River
US Highway	Lake / Reservoir	
Local Road	Ruby Watershed Boundary	

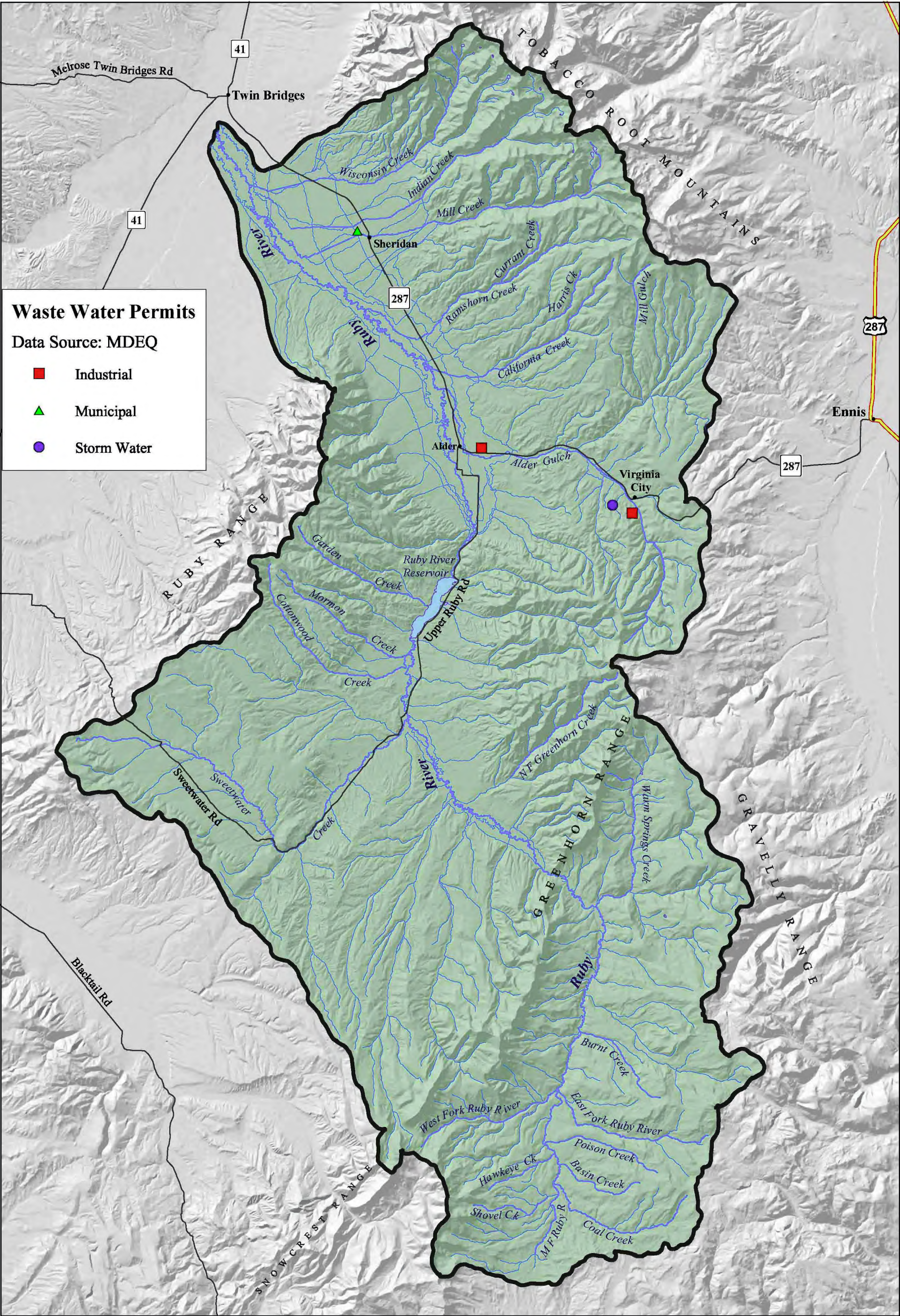
Data Sources:
USGS, US Census,
MDEQ, NRCS, MTNHP

Scale 1" = 4 Miles

Montana State Plane Coordinate System
Lambert Conformal Conic Projection
North American Datum 1983

Montana

Ruby River Watershed



Waste Water Permits

Data Source: MDEQ

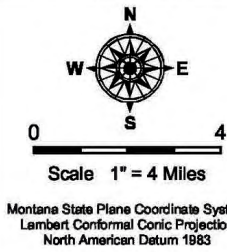
- Industrial
- Municipal
- Storm Water

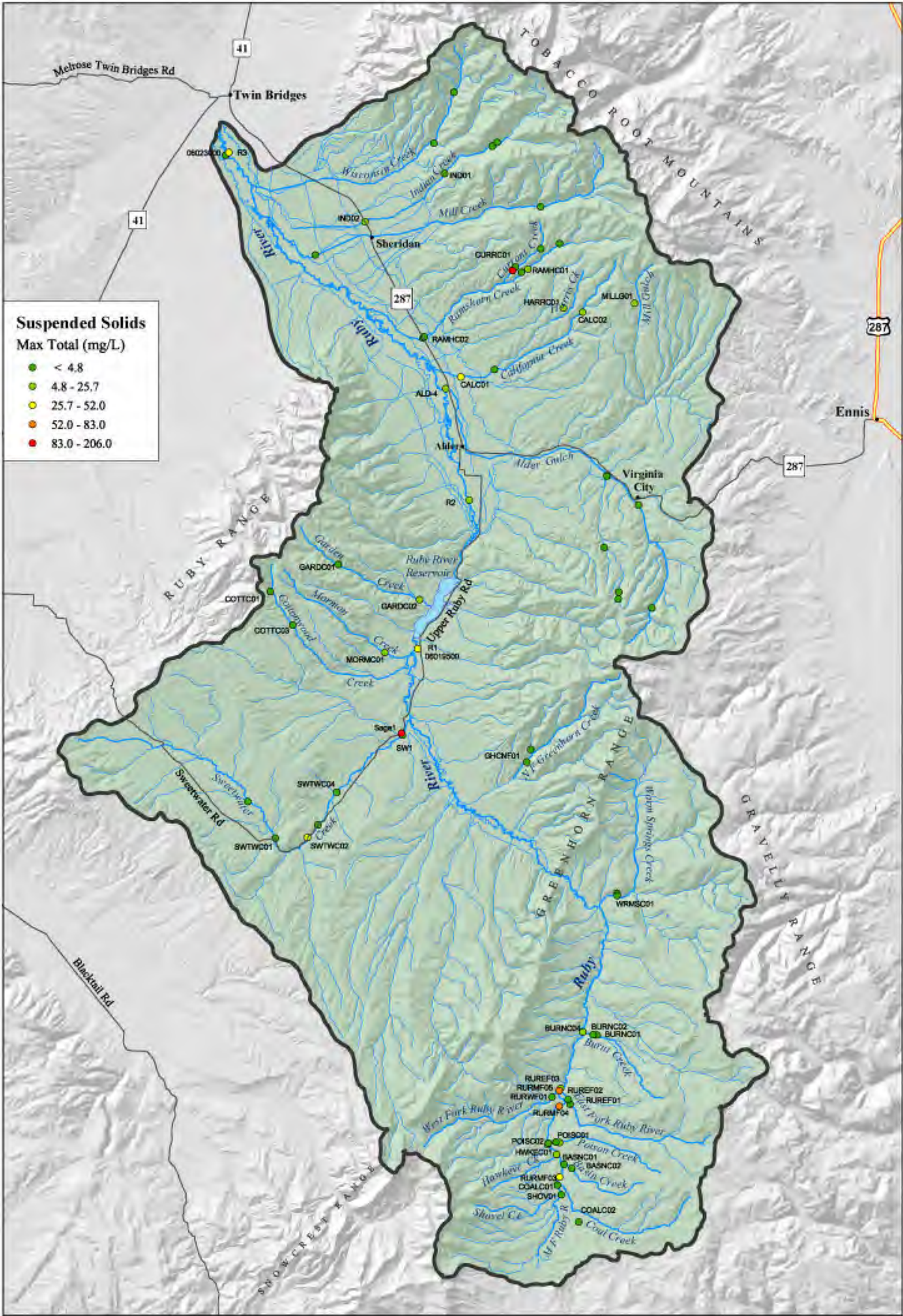
Map 9. NPDES Point Sources

Legend

Data Sources:
USGS, US Census,
MDEQ, NRCS

- City / Town
- US Highway
- Local Road
- Stream / River
- Lake / Reservoir
- Ruby Watershed Boundary

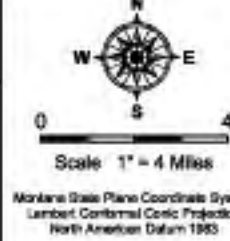


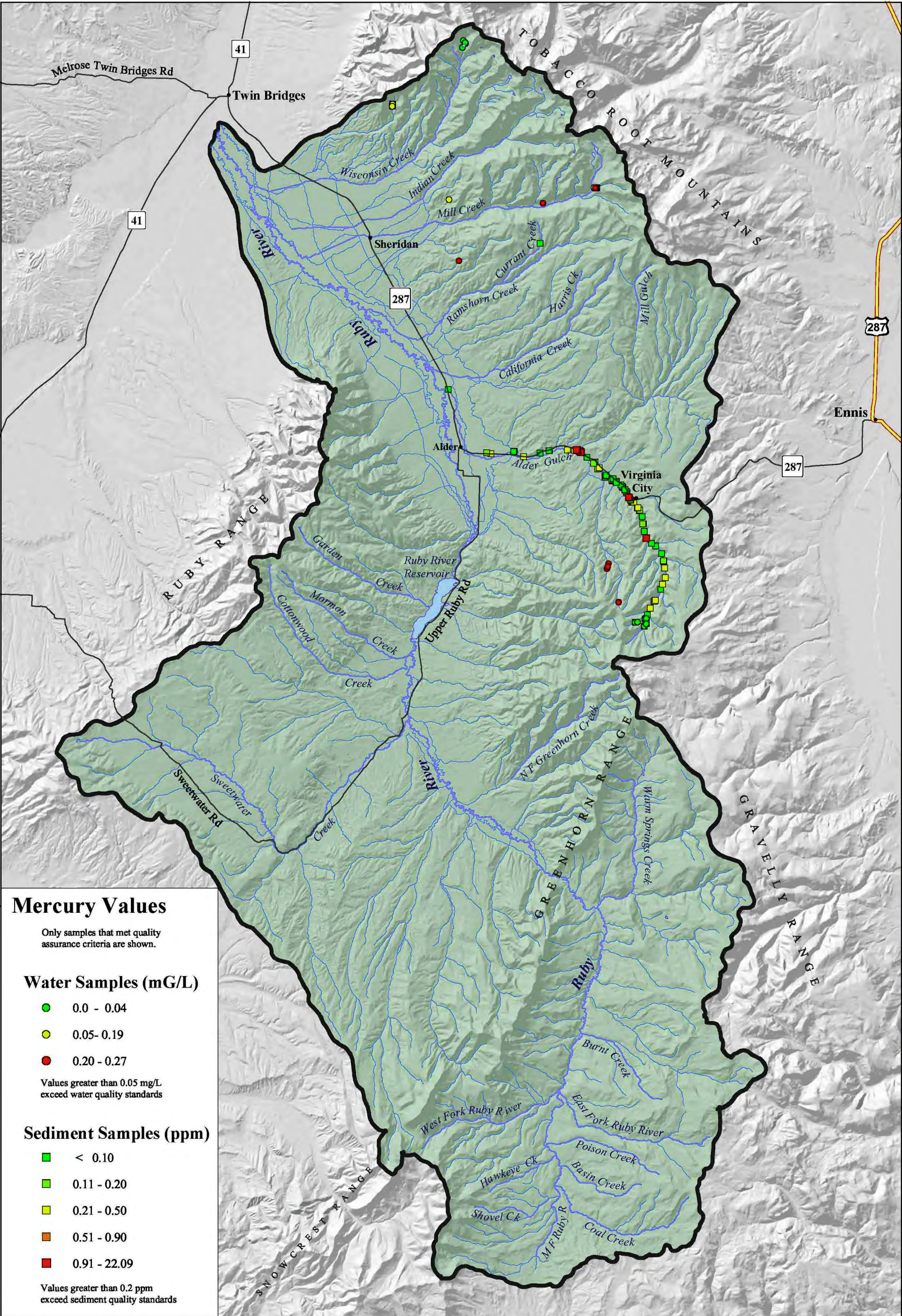


Map 10. TSS Sampling Locations and Results

Legend

- City / Town
- US Highway
- Local Road
- Stream / River
- Lake / Reservoir
- Ruby Watershed Boundary





Map 11. Mercury Sampling Locations and Results

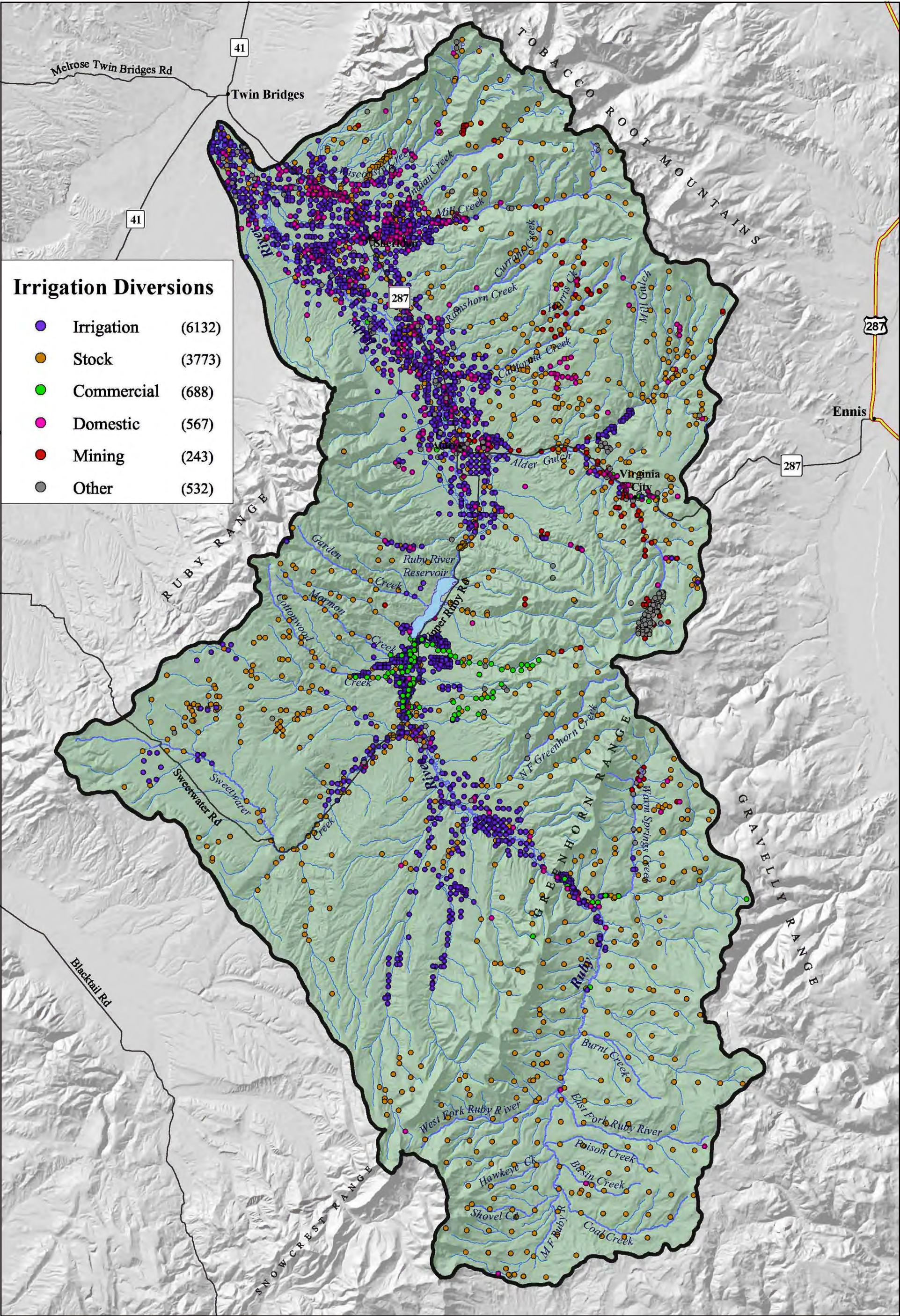
Legend	- City / Town - US Highway - Local Road	- Stream / River - Lake / Reservoir - Ruby Watershed Boundary
Data Sources: USGS, US Census, MDEQ, NRCS		

Scale 1" = 4 Miles

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North American Datum 1983

Montana

Ruby River Watershed



Map 12. Irrigation Diversions

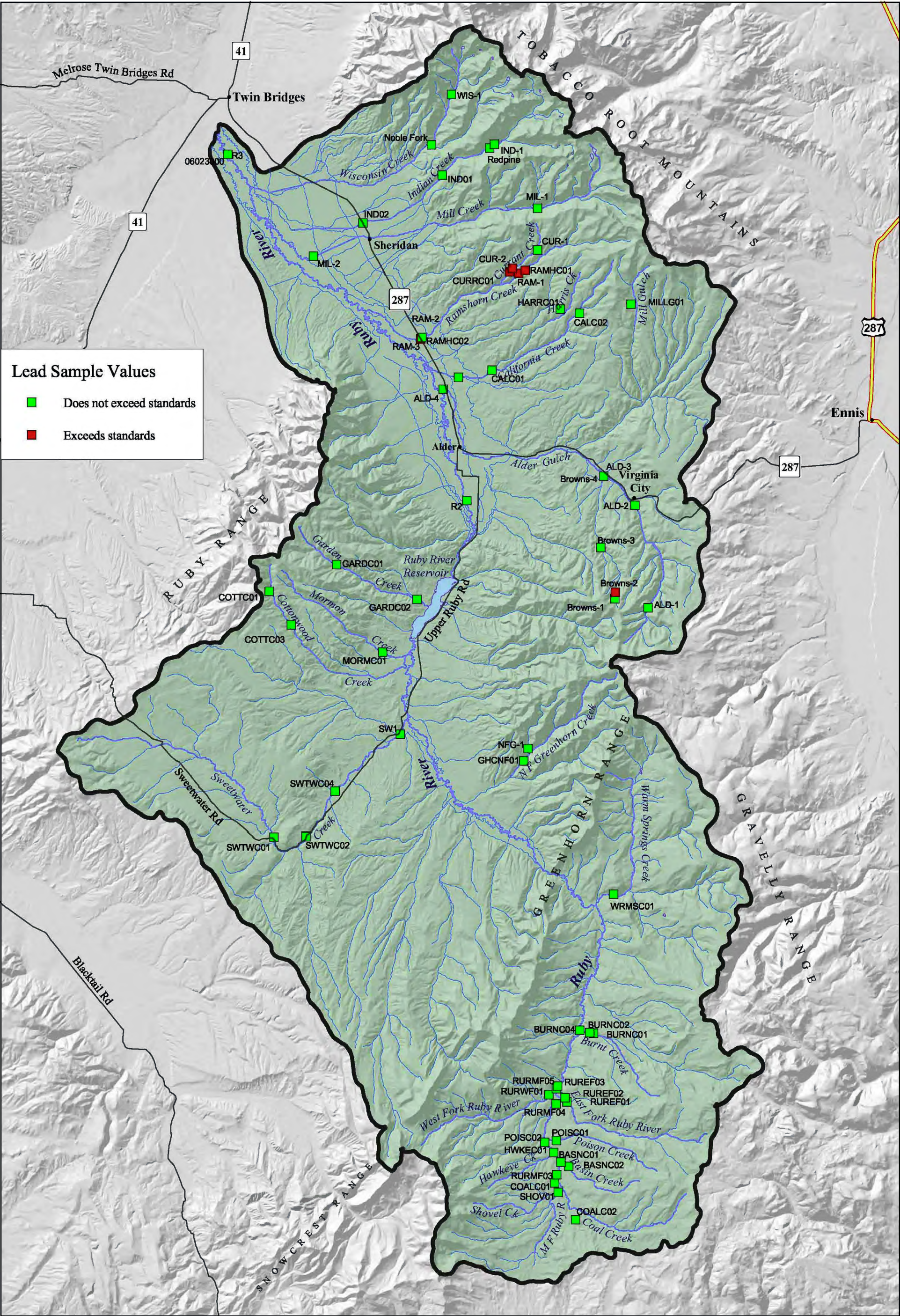
Legend	• City / Town — US Highway — Local Road	- Stream / River - Lake / Reservoir - Ruby Watershed Boundary
Data Sources: USGS, US Census, MDEQ, NRCS		

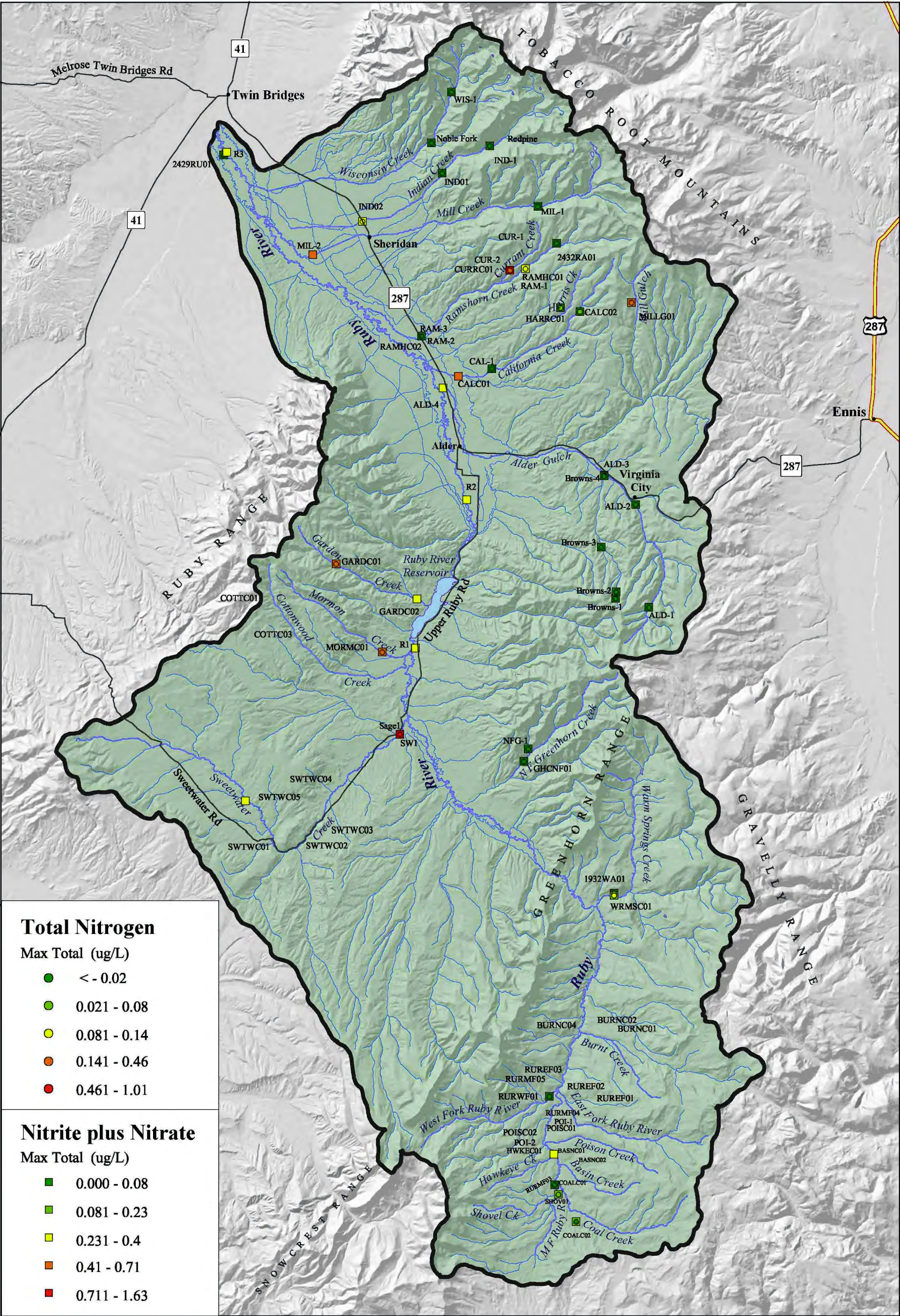
Scale 1" = 4 Miles

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Ruby River Watershed





Map 15. Nitrogen Sampling Locations and Results

Legend

Data Sources:
USGS, US Census,
NRIS, MDEQ, W&C

- City / Town
- US Highway
- Local Road
- Stream / River
- Lake / Reservoir
- Ruby Watershed Boundary

Scale 1" = 4 Miles

Montana State Plane Coordinate System
Lambert Conformal Conic Projection
North American Datum 1983

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Ruby River Watershed