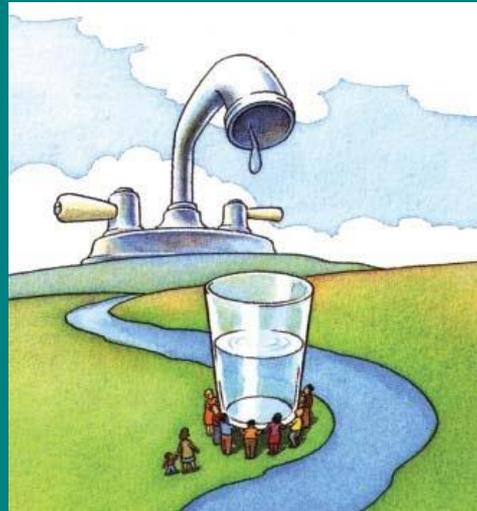
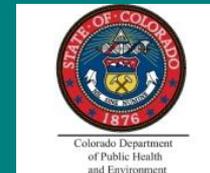


# Source Water Protection Plan

## City of Idaho Springs



Mark Williams  
Source Water Specialist  
Colorado Rural Water Association



# AGENDA

## I. Welcome and Introductions

## II. Developing a Source Water Protection Plan

- Review process of developing a plan and timeline
- Review of last month's meeting
- Update on grant in-kind match

## III. Management Approaches to Implement



- Prioritize Potential Contaminant Sources/Issues
- Identify best management approaches to decrease risk

## IV. Set next meeting date to review draft SWP plan

# Steps and Timeline for Developing Idaho Spring's SWPP

June  
2016

- 1<sup>st</sup> Stakeholders Meeting
- Form Steering Committee, Review State's Assessment, Delineate Source Water Protection Area

July 2016

- 2<sup>nd</sup> Stakeholders Meeting
- Inventory of Potential Contaminant Sources

Aug.  
2016

- 3<sup>rd</sup> Stakeholders Meeting
- Develop Best Management Practices
- Write Draft Source Water Protection Plan

Sept.  
2016

- 4<sup>th</sup> Stakeholders Meeting
- Review and Edit Draft Plan

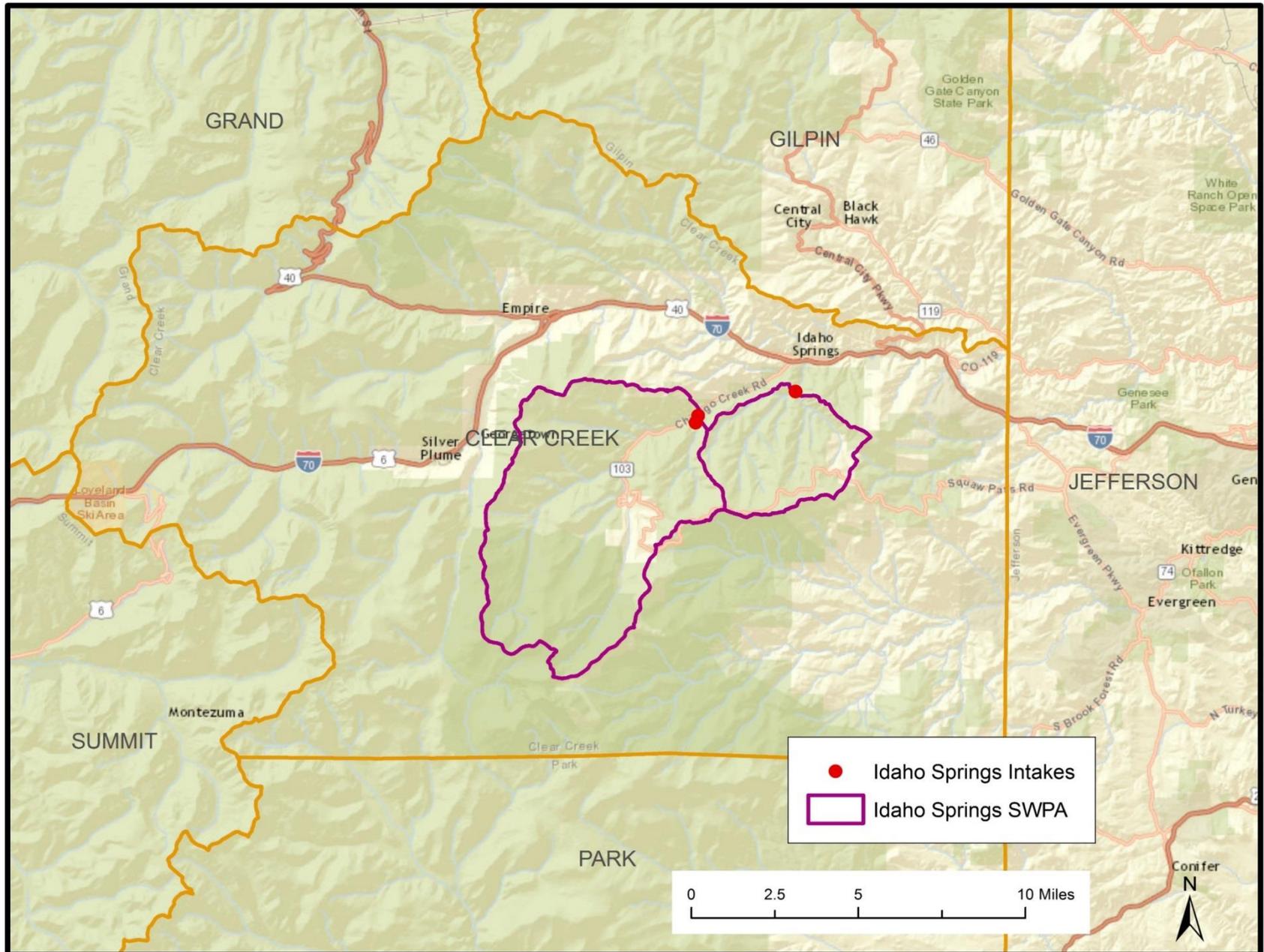
Oct.  
2016

- 5<sup>th</sup> Stakeholders Meeting
- Final Plan review, Action Plan for grant spending

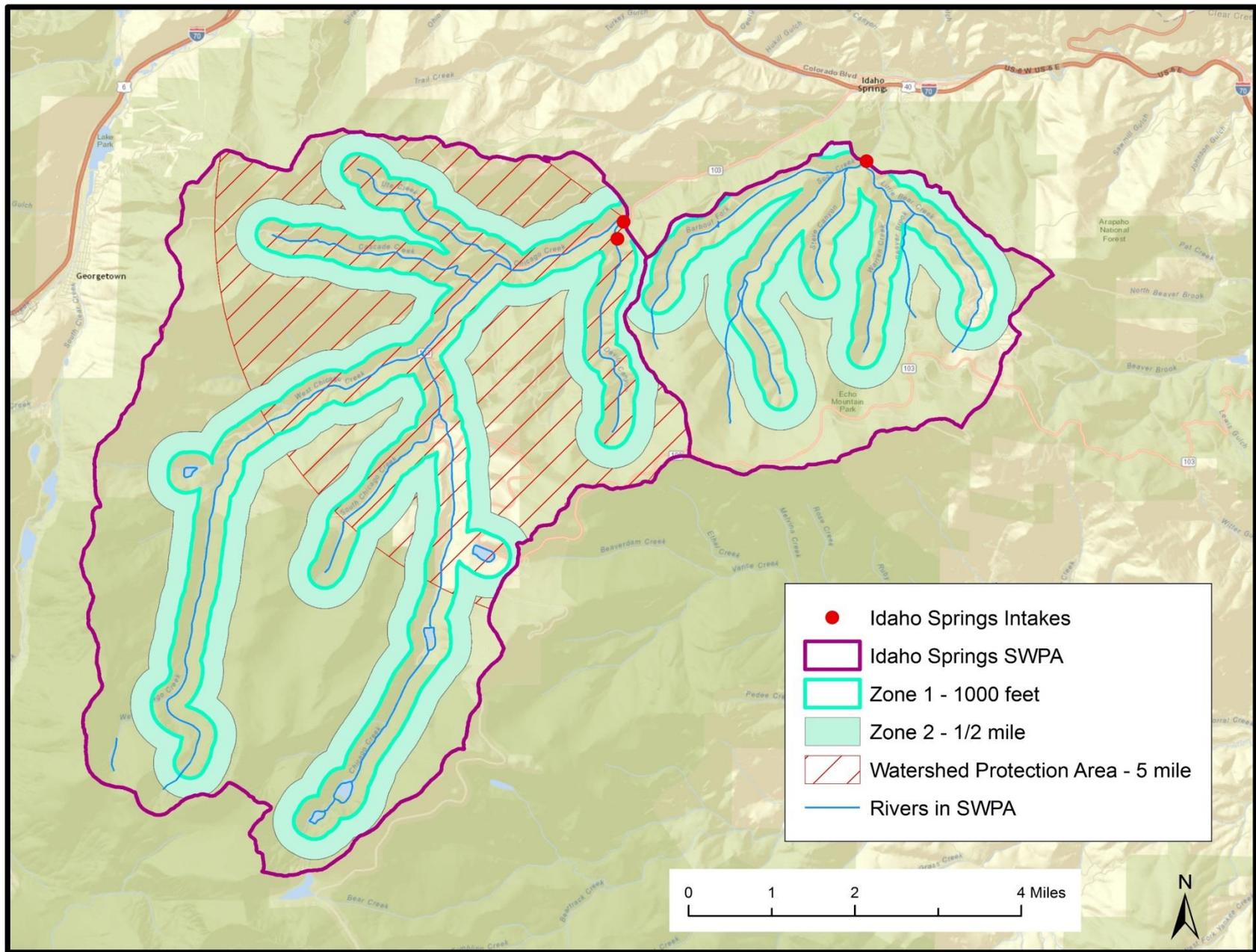
## Source Water Protection Grant In-kind Match

Name	Organization		6/28/16	7/26/16	8/23/16	Hrs	Hr. Rate	Total
		Pre-Mtg	1st Mtg	2nd Mtg	3rd Mtg			
Phyllis Adams	Upper Clear Creek Watershed Association		1	1.5		2.5	\$60	\$150
Bob Bowland	City of Idaho Springs, City Council		1			1	\$60	\$60
Kelly Cline	City of Westminster, Source Water Specialist		3	3.5		6.5	\$60	\$390
John Curtis	Town of Georgetown, Water Operator		1.5	2		3.5	\$60	\$210
Jim Ford	City of Black Hawk, Engineering		2	2.5		4.5	\$60	\$270
Dave Holm	Clear Creek Watershed Foundation		1			1	\$60	\$60
Lisa Leben	Clear Creek County, Special Projects Director		1.5	2		3.5	\$60	\$210
Andy Marsh	City of Idaho Springs, City Administrator	3	1	1		5	\$60	\$300
Ed Sigward	City of Idaho Springs, Water Operator		1	1.5		2.5	\$60	\$150
Alan Tiefenbach	City of Idaho Springs, Planner		1	1.5		2.5	\$60	\$150
Dan Wolf	City of Idaho Springs, Water/Wastewater Superintendent		1	1.5		2.5	\$60	\$150
Deb Zack	Colorado Division of Reclamation, Mining & Safety		3	3.5		6.5	\$60	\$390
						0	\$0	\$0
							TOTAL 41.5 IN-KIND	<b>\$2,490</b>

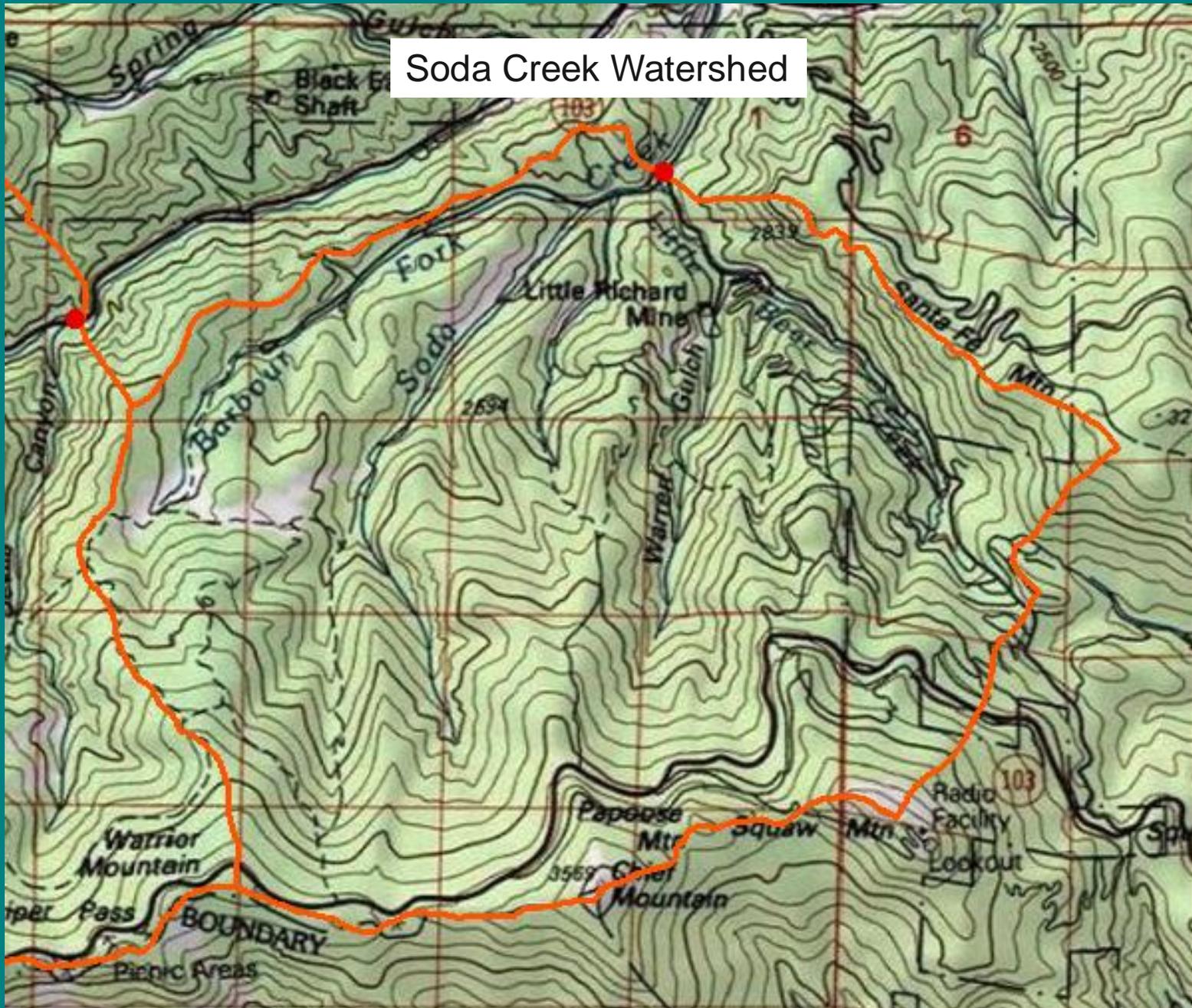
# City of Idaho Springs Source Water Protection Area (SWPA)



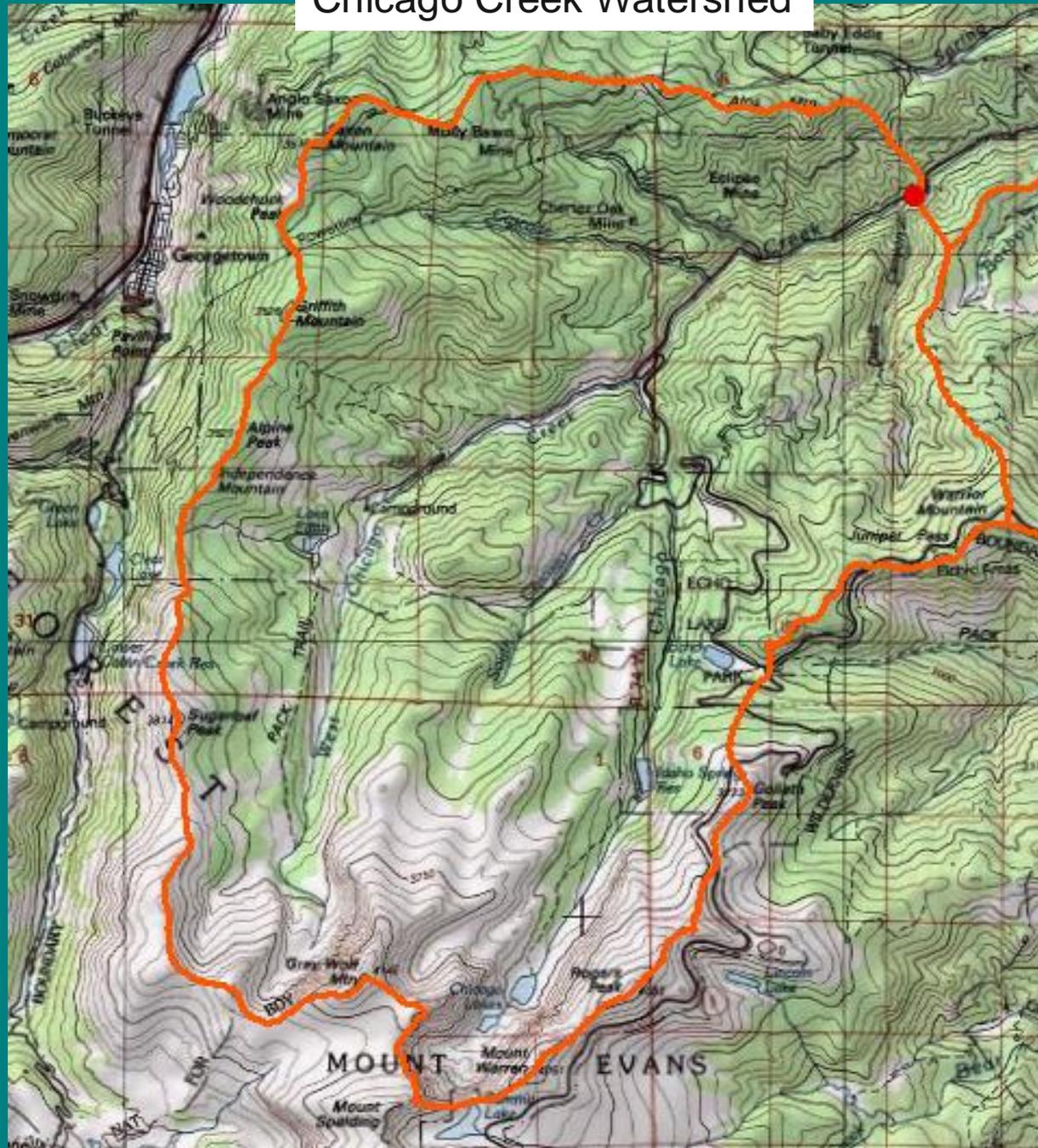
# Protection Areas Map

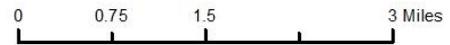
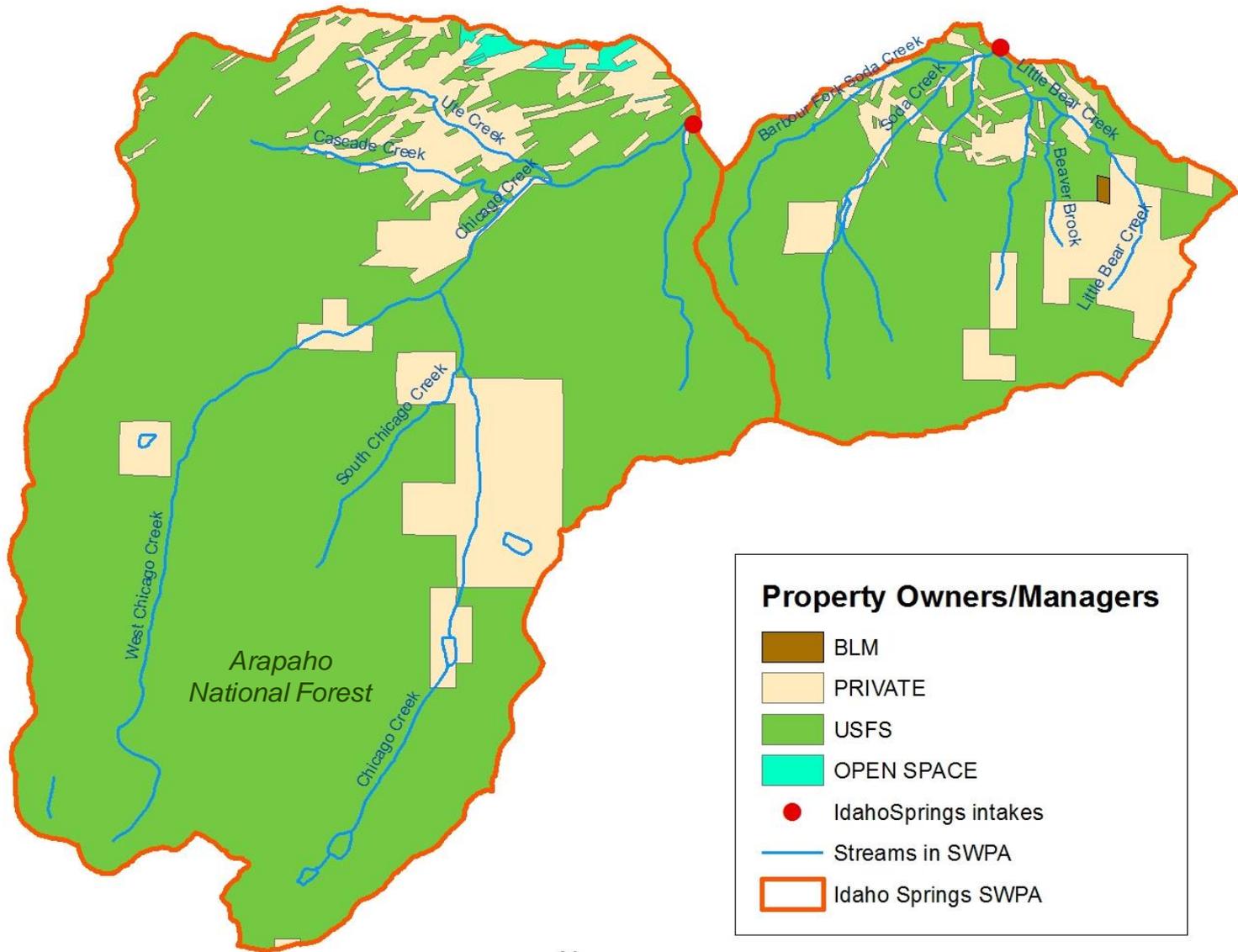


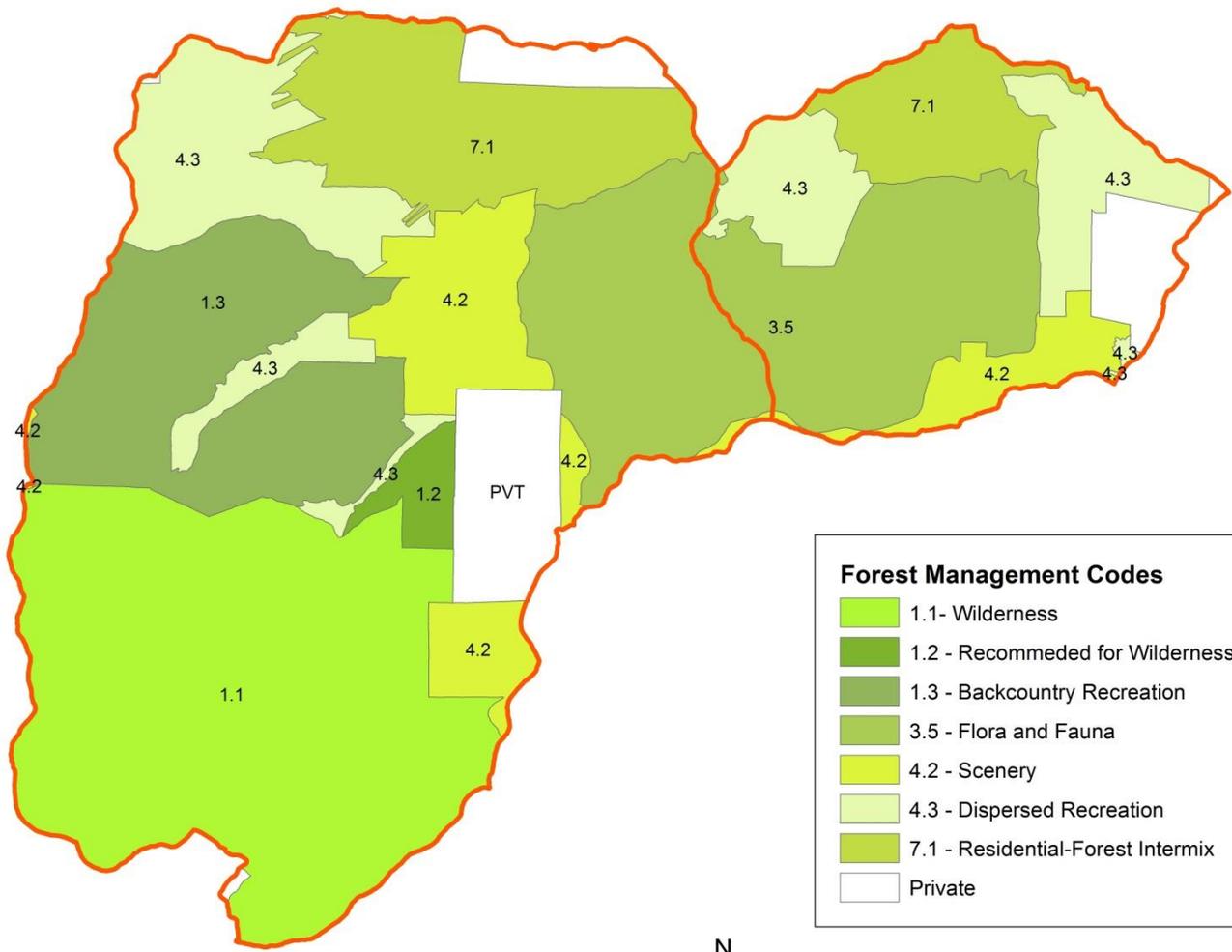
# Soda Creek Watershed



# Chicago Creek Watershed

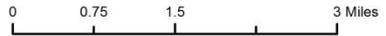






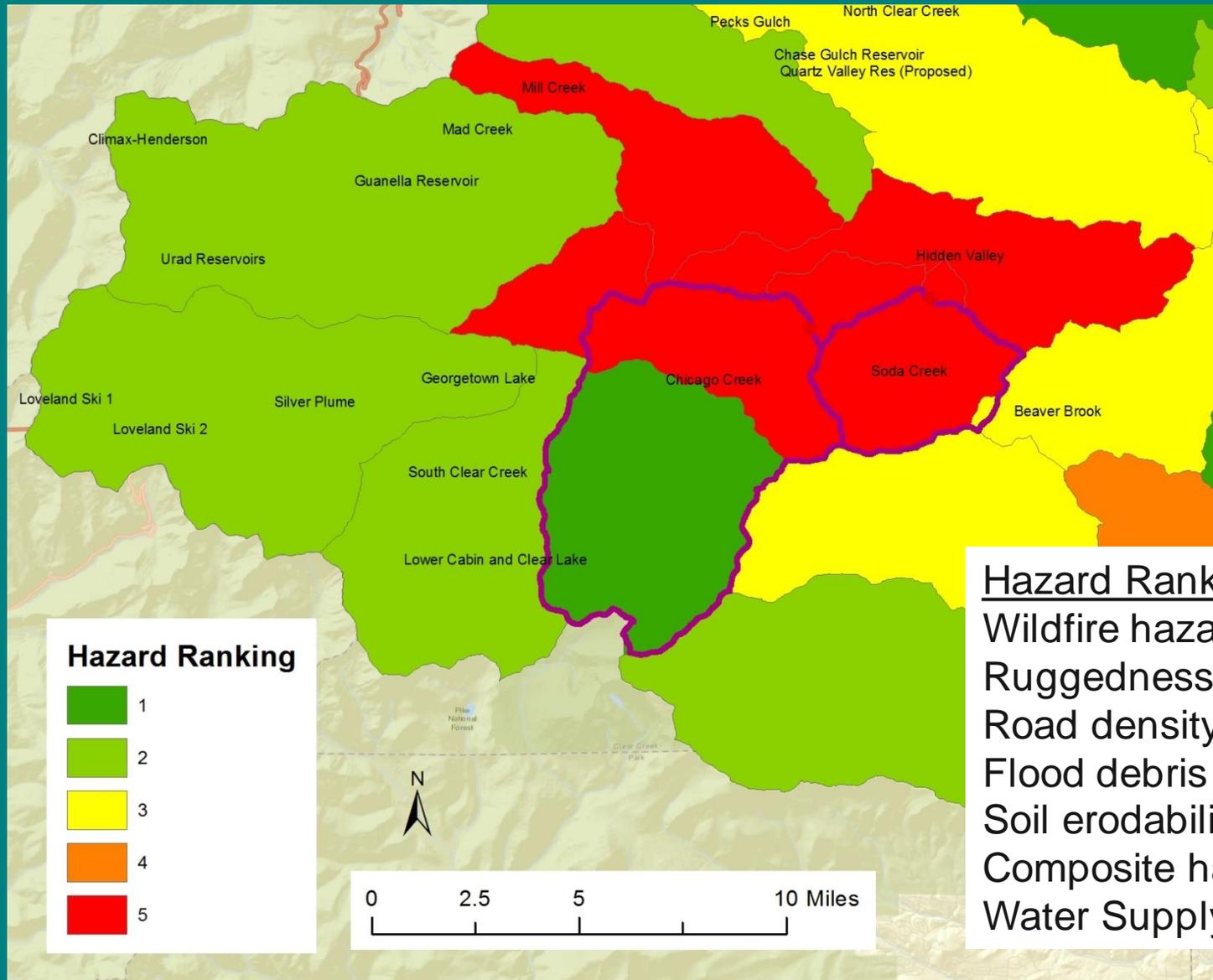
**Forest Management Codes**

- 1.1- Wilderness
- 1.2 - Recommended for Wilderness
- 1.3 - Backcountry Recreation
- 3.5 - Flora and Fauna
- 4.2 - Scenery
- 4.3 - Dispersed Recreation
- 7.1 - Residential-Forest Intermix
- Private



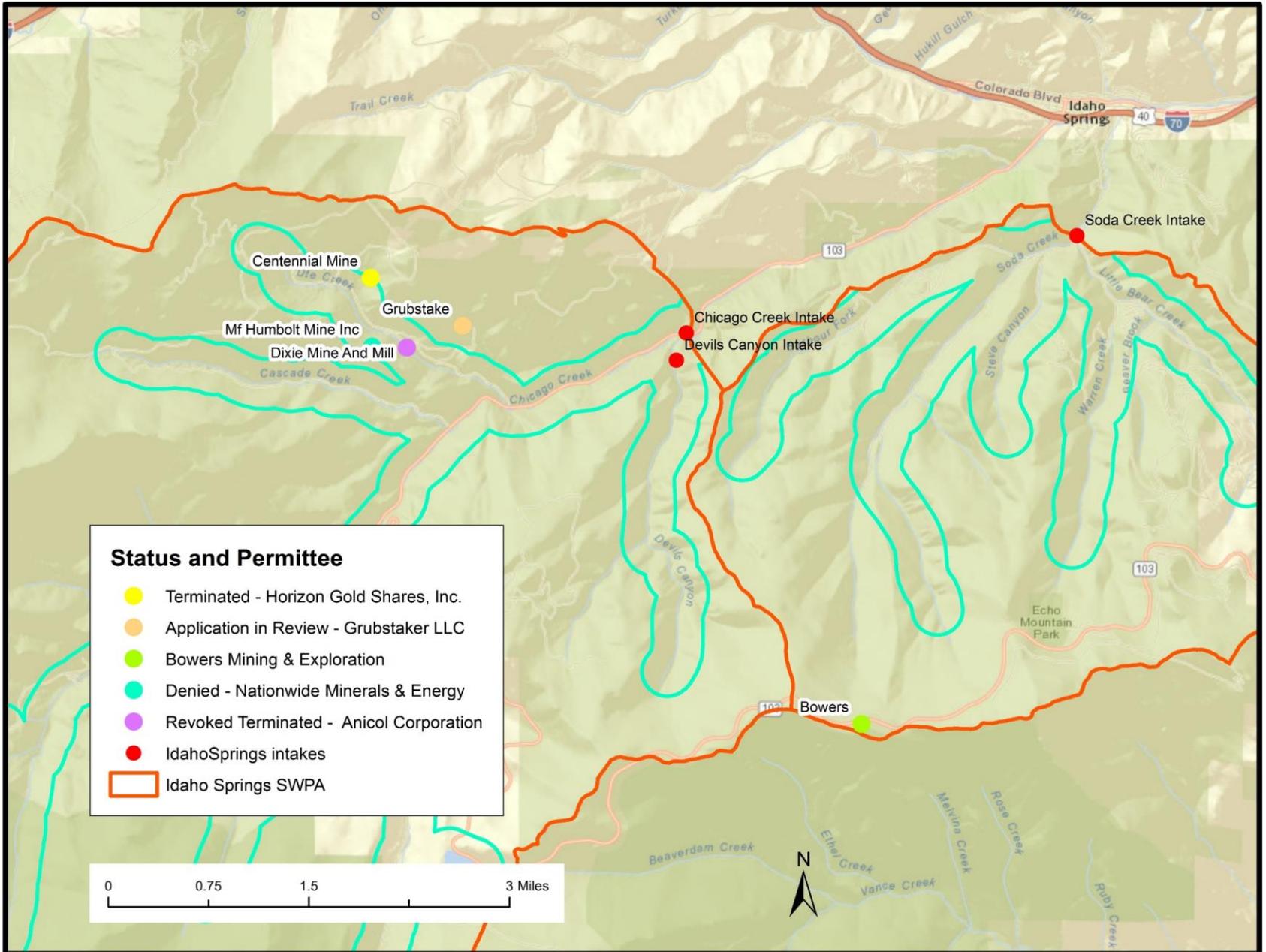
# Soda/Chicago Creek Wildfire Watershed Assessment: JW Associates Inc.

## Final Watershed Hazard Ranking: 1 & 5

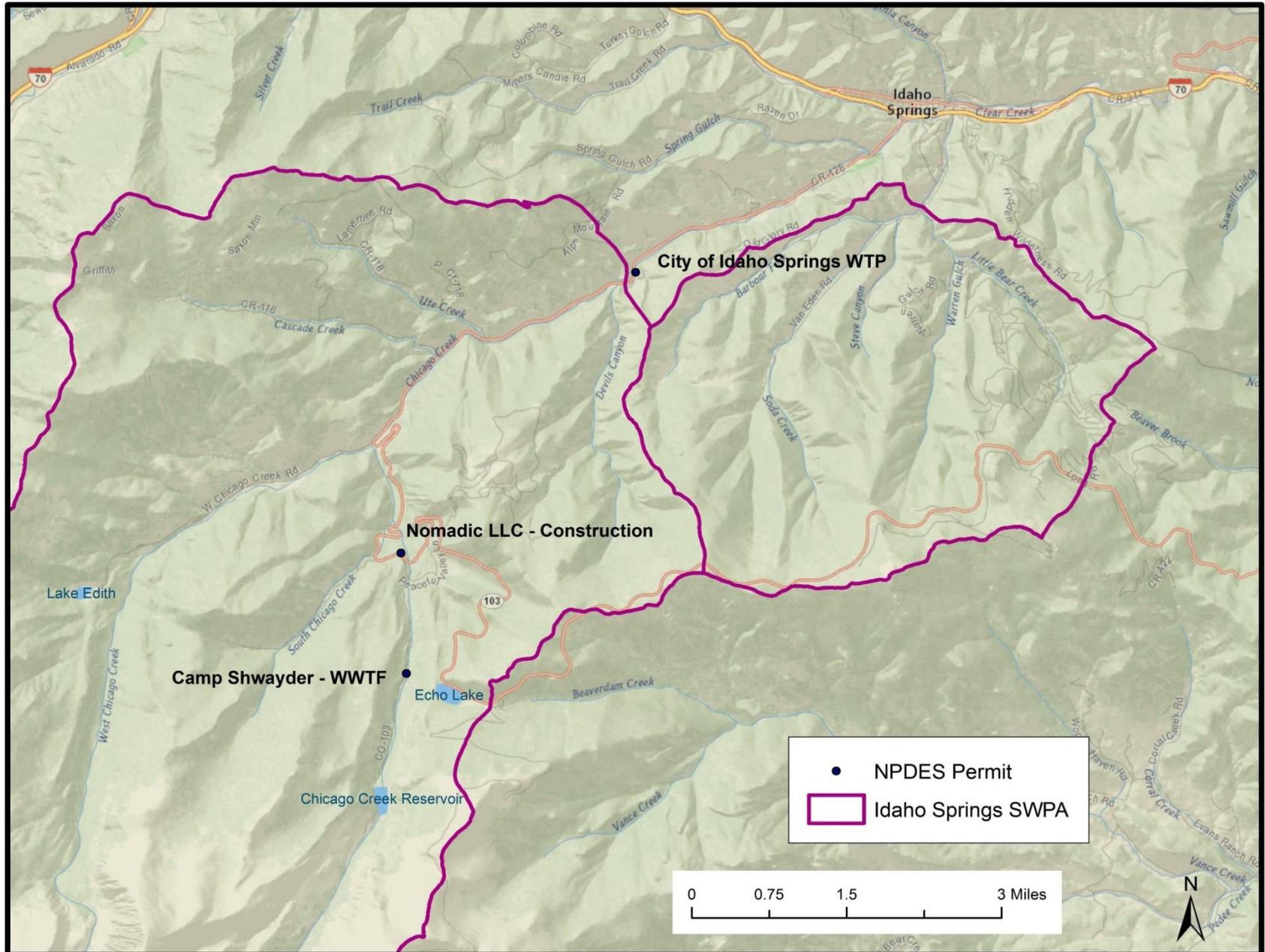


Hazard Rankings  
Wildfire hazard  
Ruggedness  
Road density  
Flood debris flow  
Soil erodability  
Composite hazard  
Water Supply rank

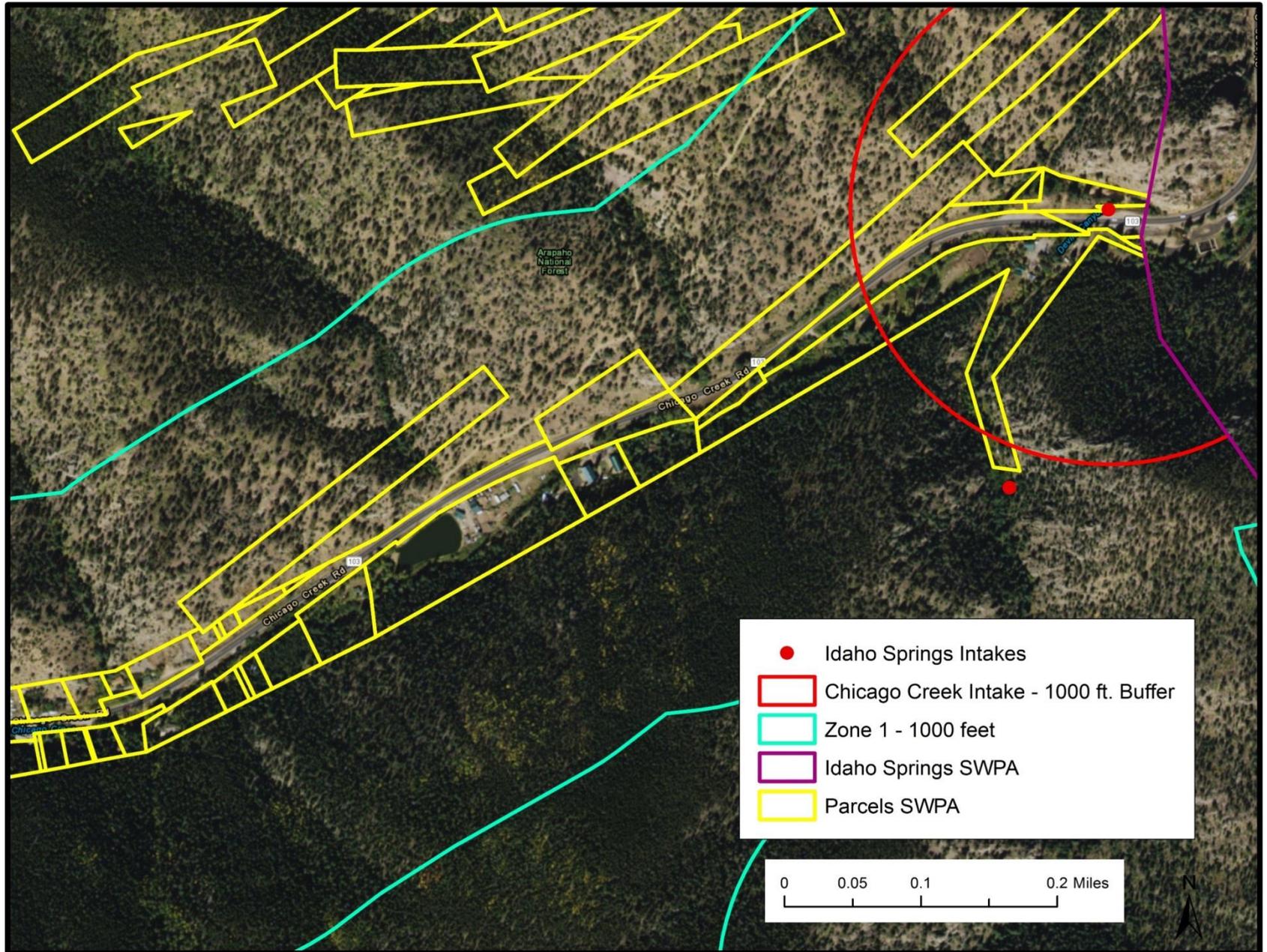
# Permitted Mines Status - DRMS



# NPDES - Discharge Permits



# Upstream Properties



# What Measures are Currently in Place?

- Clear Creek County Health Department regulations on septic systems and NPDES permits
- Household hazardous waste at County Transfer Station in Idaho Springs (seasonal and year-around events)
- Land use planning & management
  - Clear Creek County Master Plan and Zoning Ordinances
  - USFS Arapaho Roosevelt National Forest 1998 Revised Land and Resource Management Plan (Forest Plan)
  - Idaho Springs Watershed Protection Ordinance
- Clear Creek Watershed Foundation
- Upper Clear Creek Watershed Association
- DRMS Regulations

## Identify Issues of Concern and SWAP Risk Assessment

Potential Source of Contamination or Issue of Concern	Proximity (SWPA Zone)	Impact to Water System (Insignificant, Minor, Significant, Major, Catastrophic)	Probability of Impact (Rare, Unlikely, Possible, Likely, Certain)	Risk (Very Low, Low, Moderate, High, Very High)	Priority Ranking
Abandoned Mine Land	2	significant	possible	Moderate	
Roads: Runoff, spills, maint	1	significant	certain	High	
Future mining activity	2	significant	possible	Moderate	
Dam failure	1	significant	unlikely	Moderate	
Flooding	1	significant	possible	Moderate	
Wildfire	2	major	certain	Very High	
Dumping	1	significant	possible	Moderate	
Storage Tanks	1	insignificant	rare	Very Low	
Septic systems	1	minor	possible	Moderate	
Reservoir maintenance	1	minor	unlikely	Low	
Permitted Dischargers	1	significant	possible	Moderate	
Weed abatement	1	minor	rare	Very Low	
Trout Pond	1	insignificant	rare	Very Low	
Recreation	1	insignificant	rare	Very Low	
Development	1	minor	possible	Moderate	



Mark Williams, CRWA  
mark@jimtown.org