



United States Department of Agriculture

Natural Resources Conservation Service

Tri-Valley Supplemental Watershed Plan Environmental Assessment Public Scoping Meeting

February 12, 2020



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& ASSOCIATES

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2/14/2020

Introductions

- Wasatch Conservation District
- Utah Department of Ag and Food
- Natural Resources Conservation Service
- Wasatch County
- Bowen Collins & Associates
- McMillen Jacobs

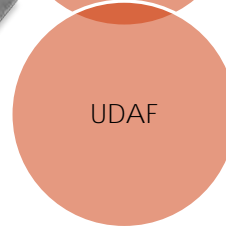


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Purpose of Meeting

- Explain the 3 project sites
- Explain the **NEPA** (National Environmental Policy Act) planning process
- Discuss issues
- Receive input (breakout sessions)



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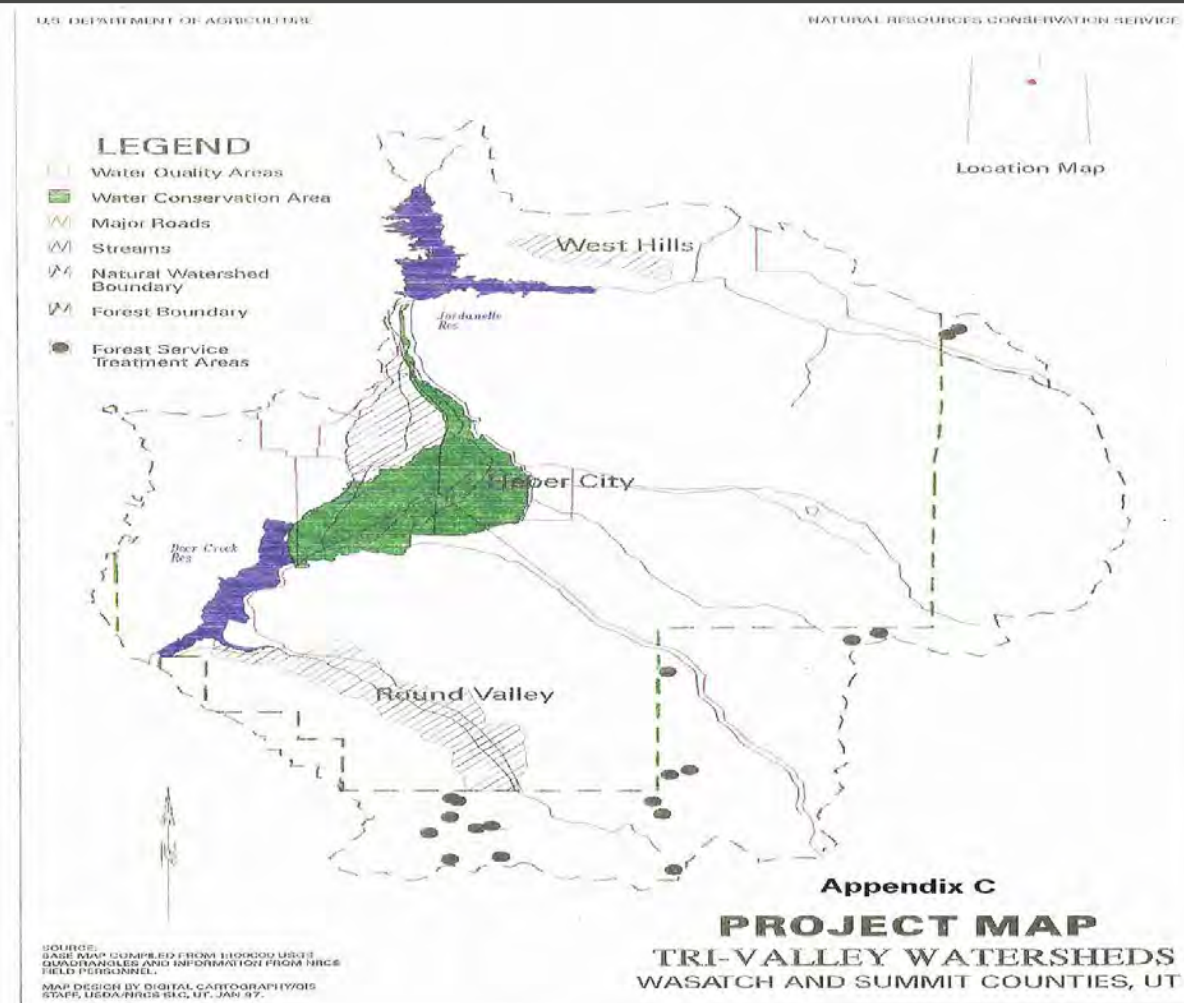
Other NRCS Projects

Plan-Environmental Assessments are currently in progress for the sites listed below:

- ▶ Duchesne County Water Conservancy District (DCWCD) Watershed Plan (Sponsor = Duchesne County Water Conservancy District)
- ▶ Cottonwood Creek Watershed-Joes Valley (Sponsor=Emery County)
- ▶ Ashley Valley Watershed (Sponsor=Uintah County)
- ▶ Santaquin City Watershed (Sponsor=Santaquin City, Utah)
- ▶ Upper Weber Basin Watershed Plan (Sponsor = Weber Basin Water Conservancy District)
- ▶ Lower Price River Watershed Plan-EA (Sponsor = UT Division of Wildlife Resource)
- ▶ Parowan Valley Watershed (Sponsor=Iron County)
- ▶ Warner Draw Watershed (Sponsor=Washington County)
- ▶ Cove Reservoir Watershed (Sponsor=Kane Co. Water Conservancy District)
- ▶ North Ogden Watershed (Sponsor=Weber-Box Elder Conservation District)
- ▶ Uintah Water Efficiency Project Plan-EA (Sponsor = Uintah Water Conservancy District)
- ▶ Pleasant Grove-Mill Ditch Piping (Sponsor=Pleasant Grove City)
- ▶ Richfield-West Sevier Watershed (Flat Canyon) (Sponsor=Sevier County)
- ▶ Saratoga Springs Watershed (Sponsor = Saratoga Springs)
- ▶ Skull Valley Watershed (Sponsor = Tooele County)
- ▶ Tri Valley Watershed (Sponsor = Wasatch County)



Original Watershed Plan (1997)



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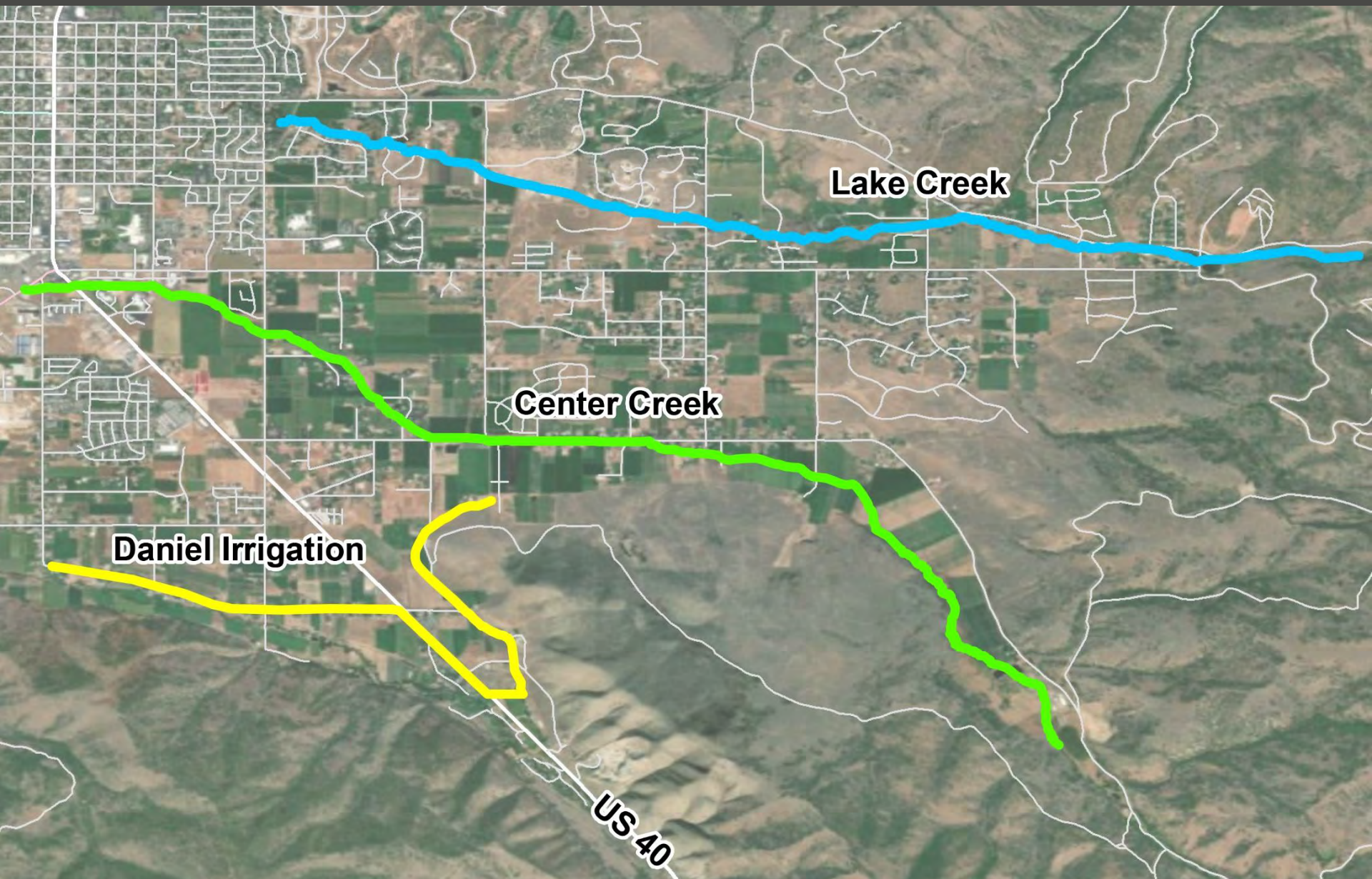
Table 2, Estimated Cost Distribution-Structural and nonstructural measures

TriValley Watershed, Utah

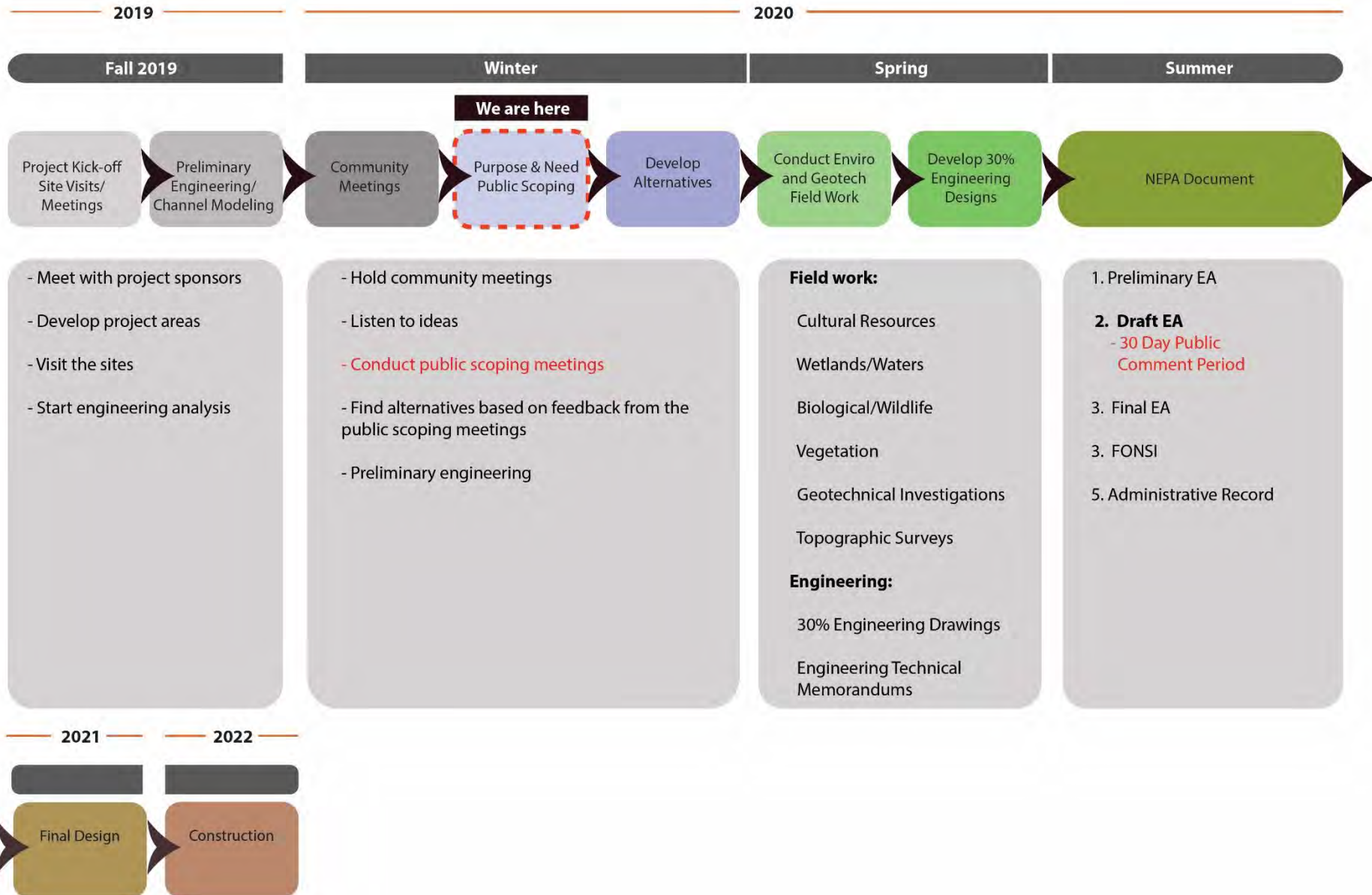
(dollars)1/

	--Installation cost PL-566----			Installation cost other funds			Total Installation Cost
	Construction	Project Administration	Total PL-566	Construction	Project Admin.	Total other	
Land Treatment-Accelerated							
pipeline	\$805,206	\$120,781	\$925,987	\$433,573	\$4,336	\$437,909	\$1,363,896
irrigation systems	\$805,572	\$120,836	\$926,408	\$433,769	\$4,338	\$438,107	\$1,364,514
animal waste mgt system	\$341,250	\$51,188	\$392,438	\$183,750	\$1,838	\$185,588	\$578,025
riparian planting	\$74,022	\$11,103	\$85,125	\$39,858	\$399	\$40,257	\$125,382
fencing	\$84,770	\$12,716	\$97,486	\$45,646	\$456	\$46,102	\$143,588
off-stream Livestock Water	\$51,271	\$7,691	\$58,961	\$24,051	\$241	\$24,292	\$83,253
livestock exclusion	\$0	\$0	\$0	\$600	\$6	\$606	\$606
riparian pasture mgt	\$0	\$0	\$0	\$4,840	\$48	\$4,888	\$4,888
riparian buffer strips	\$0	\$0	\$0	\$600	\$6	\$606	\$606
prescribed grazing	\$0	\$0	\$0	\$13,451	\$135	\$13,586	\$13,586
irrigation water mgt.	\$0	\$0	\$0	\$22,339	\$223	\$22,563	\$22,563
nutrient mgt.	\$0	\$0	\$0	\$22,339	\$223	\$22,563	\$22,563
streambank protection	\$59,948	\$8,992	\$68,940	\$32,127	\$321	\$32,448	\$101,388
irrigation water control stc.	\$68,640	\$10,296	\$78,936	\$0	\$0	\$0	\$78,936
Parshall flumes	\$31,200	\$4,680	\$35,880	\$16,800	\$168	\$16,968	\$52,848
Measuring devises	\$62,400	\$9,360	\$71,760	\$33,600	\$336	\$33,936	\$105,696
Prefab Slide Gates	\$4,875	\$731	\$5,606	\$2,625	\$26	\$2,651	\$8,258
Constructed Wetlands	\$6,500	\$975	\$7,475	\$3,500	\$35	\$3,535	\$11,010
Brush Management	\$3,900	\$585	\$4,485	\$2,100	\$21	\$2,121	\$6,606
Embankment	\$70,200	\$10,530	\$80,730	\$37,800	\$378	\$38,178	\$118,908
access roads	\$34,136	\$5,120	\$39,256		\$0	\$0	\$39,256
headcuts	\$5,040	\$756	\$5,796		\$0	\$0	\$5,796
seeding	\$43,500	\$6,525	\$50,025		\$0	\$0	\$50,025
riparian fencing	\$23,608	\$3,541	\$27,149		\$0	\$0	\$27,149
Subtotal-Land Treatment	\$2,576,038	\$386,406	\$2,962,444	\$1,353,369	\$13,534	\$1,366,902	\$4,329,346
Structural Measures		15%					
irrigation systems	\$200,000	\$30,000	\$230,000	\$2,900,000	\$29,000	\$2,929,000	\$3,159,000
heber floodway	\$143,106	\$25,254	\$168,360	\$143,106	\$1,431	\$144,537	\$312,897
Subtotal-Structural	\$343,106	\$55,254	\$398,360	\$3,043,106	\$30,431	\$3,073,537	\$3,471,897
						\$0	\$0
Total project	\$2,919,144	\$441,660	\$3,360,804	\$4,396,475	\$43,965	\$4,440,439	\$7,801,243

Projects Identified



Where are we now?



Watershed Protection and Flood Prevention Program

- Watershed Protection and Flood Protection Act (PL 83-566) has three general purposes:
 - Preventing damage from erosion, floodwater, and sediment
 - Furthering the conservation, development, utilization, and disposal of water
 - Furthering the conservation and proper utilization of land
- Planning Constraints
 - Less than **250,000-acre watershed area**
 - **\$25 million** requires a Plan-EIS



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NEPA Plan-EA Process

- Conducted a Project Kick-Off Meeting
- Data Search, Data Collection
- Preliminary Engineering/Hydrology Modeling
- Meet with the Local Residents (Community Meeting)
- **Public Scoping Meeting (Open Until March 2, 2020)**
- Field Reconnaissance
- Geotechnical Engineering
- Concept Design Plans (~30%)
- Engineering Report/Technical Memorandum (Investigation & Analysis Report)



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NEPA Plan-EA Process

- Federal Funding Requires Analysis of the Project under NRCS NEPA Regulations
- Cooperating Agency Coordination with Federal and State Agencies
- Public Scoping & Comment Period (30 Days)
Identify resource concerns, get agency/public/sponsor/stakeholder input, discuss problems & potential alternatives
- Concept Design & Engineering Analysis
- Agency Coordination
USACE Section 404 Coordination, USFWS Section 7 Consultation, SHPO Section 106 Consultation, Cooperating Agencies, State Agencies, Stakeholders



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NEPA Process (Plan-EA)

- Internal Preliminary Draft Plan-EA
- Draft Plan-EA
 - Public review and comment period (30 days) of Plan-EA that includes alternatives and environmental impacts
- Final Plan-EA
 - Final EA document that Incorporates Draft EA comments
- Finding of No Significant Impact (FONSI) Or Preparation of Environmental Impact Statement (EIS)
- Administrative Record



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Watershed Protection and Flood Prevention Program

Authorized Purpose	Description	Cost Share Construction		Cost Share Engineering		Cost Share (Real Property Rights)	
		NRCS	Sponsor	NRCS	Sponsor	NRCS	Sponsor
Flood Protection	Measures to reduce or prevent floodwater damages by reducing runoff, erosion and sediment	100%	0%	100%	0%	0%	100%
Watershed Protection	Onsite treatment of watershed natural resources to reduce pollutants related to floodwater, erosion, sediment and agriculture	Variable - up to 100%	Variable	100%	0%	0%	100%
Public Recreation	Allowed only when Sponsor agrees to operate and maintain a reservoir or other area for public recreation. Measures must include only minimum basic facilities needed for public health and safety and access to and use of the area.	Up to 50%	≥50%	100%	0%	Up to 50%	≥50%
Public Fish & Wildlife	Allowed only when Sponsor agrees to operate and maintain a reservoir or other area for public fish and wildlife access. Measures installed for public use of areas developed to improved habitat, growth, and development of fish and wildlife may be included.	Up to 50%	≥50%	100%	0%	Up to 50%	≥50%
Agricultural Water Management	Includes drainage, ground water recharge, irrigation, water conservation, water quality improvement, and agricultural water supply.	Up to 75%	≥25%	≤ 100%	≥0%	0%	100%
Municipal & Industrial Water Supply	Measures necessary to provide storage capacity in reservoirs to increase the availability of water for present and future municipal and industrial use.	≤50%	≥50%	0%	100%	0%	100%
Water Quality Management	Provides water storage capacity in reservoirs for regulation of stream flow to improve water quality in streams.	Variable	Variable	Up to 100%	≥ 0%	0%	100%
Watershed Structure Rehabilitation	Authorizes financial assistance to local organizations to cover a portion of the costs of rehabilitating dams originally constructed as part of PL 83-566, PL-78534 the pilot watershed program, or the Resource Conservation and Development Program.	65%	35%	100%	0%	0%	100%

Lake Creek Existing Conditions

- Channel Capacity Deficiencies
- Channel Erosion
- Issues with Irrigation Diversions
- Undersized Culverts and Pipelines
- Issues with Debris
- Development adjacent to the Creek



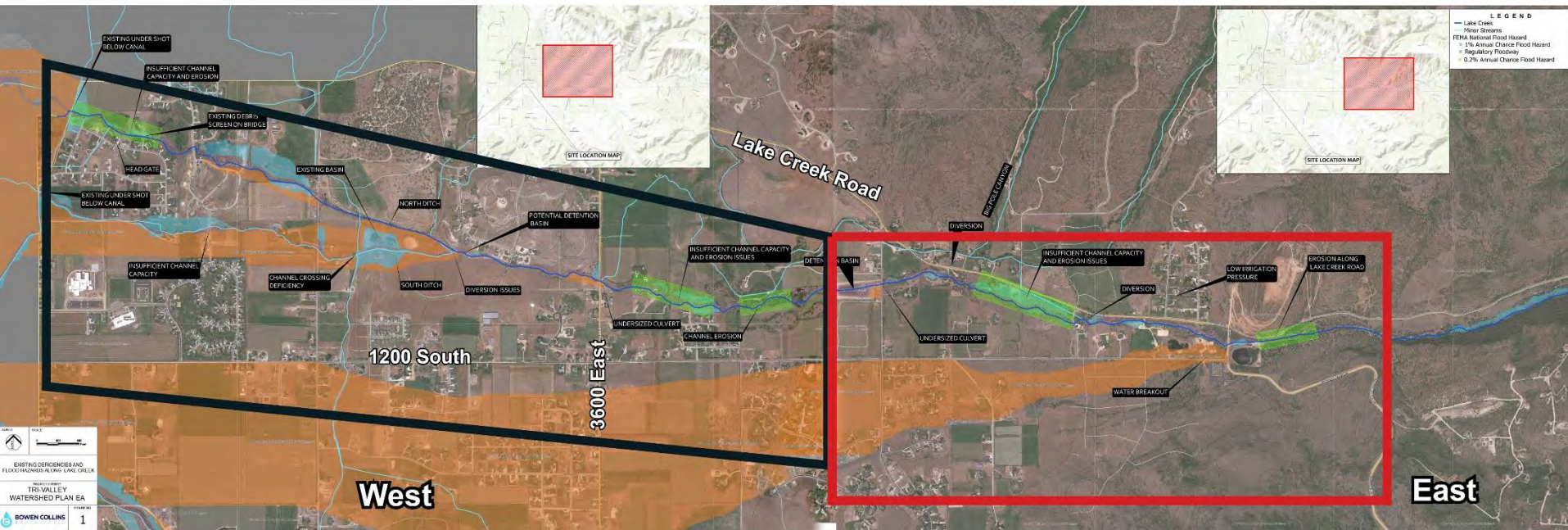
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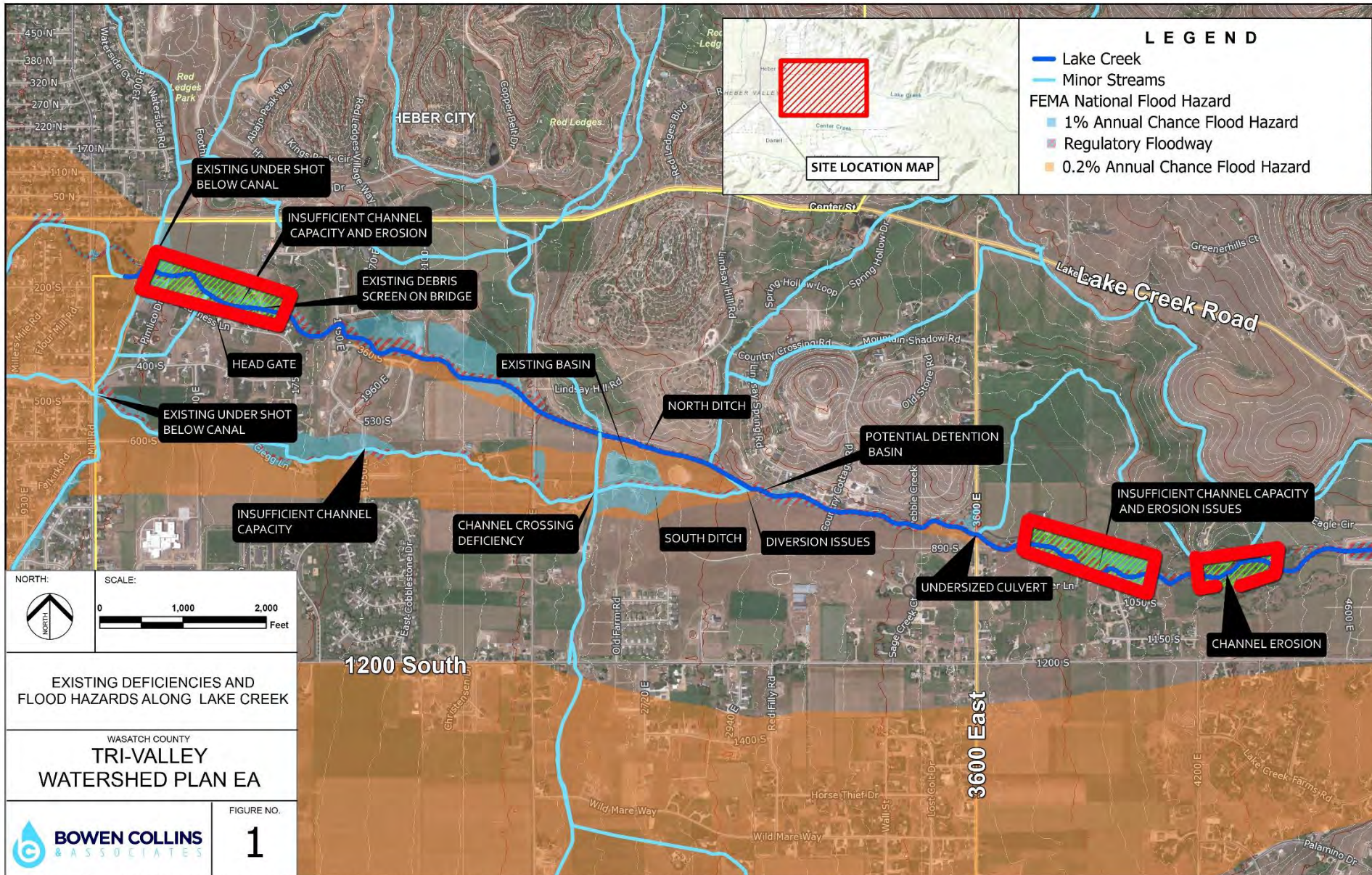


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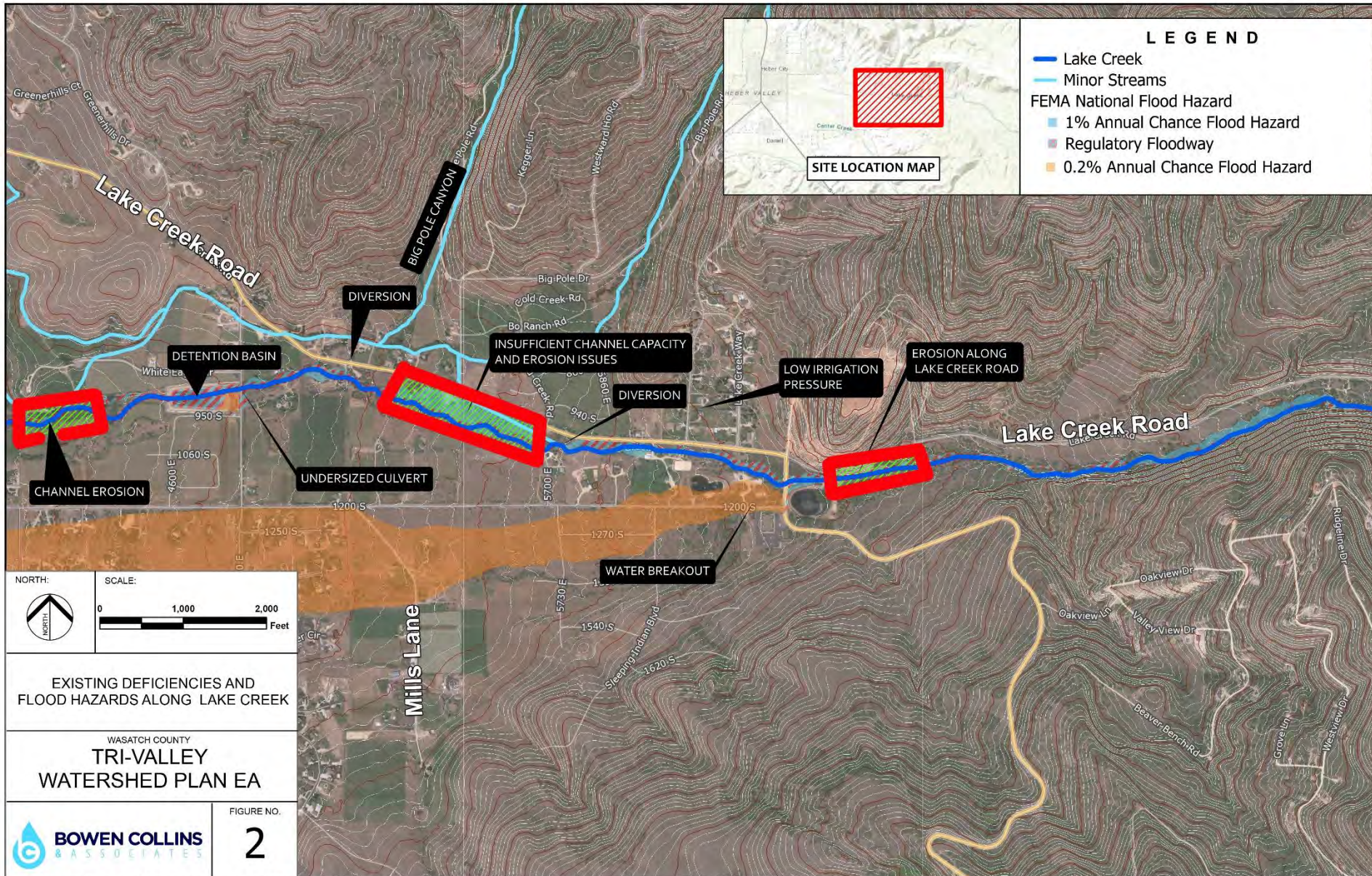
Lake Creek



Lake Creek Existing Issues



Lake Creek Existing Issues



Center Creek Existing Conditions

- Snow and Ice Accumulation on Center Creek Road
- Channel Capacity Deficiencies
- Channel Erosion
- Issues with Irrigation Diversions
- Undersized Culverts and Pipelines
- Shallow Flood Hazards



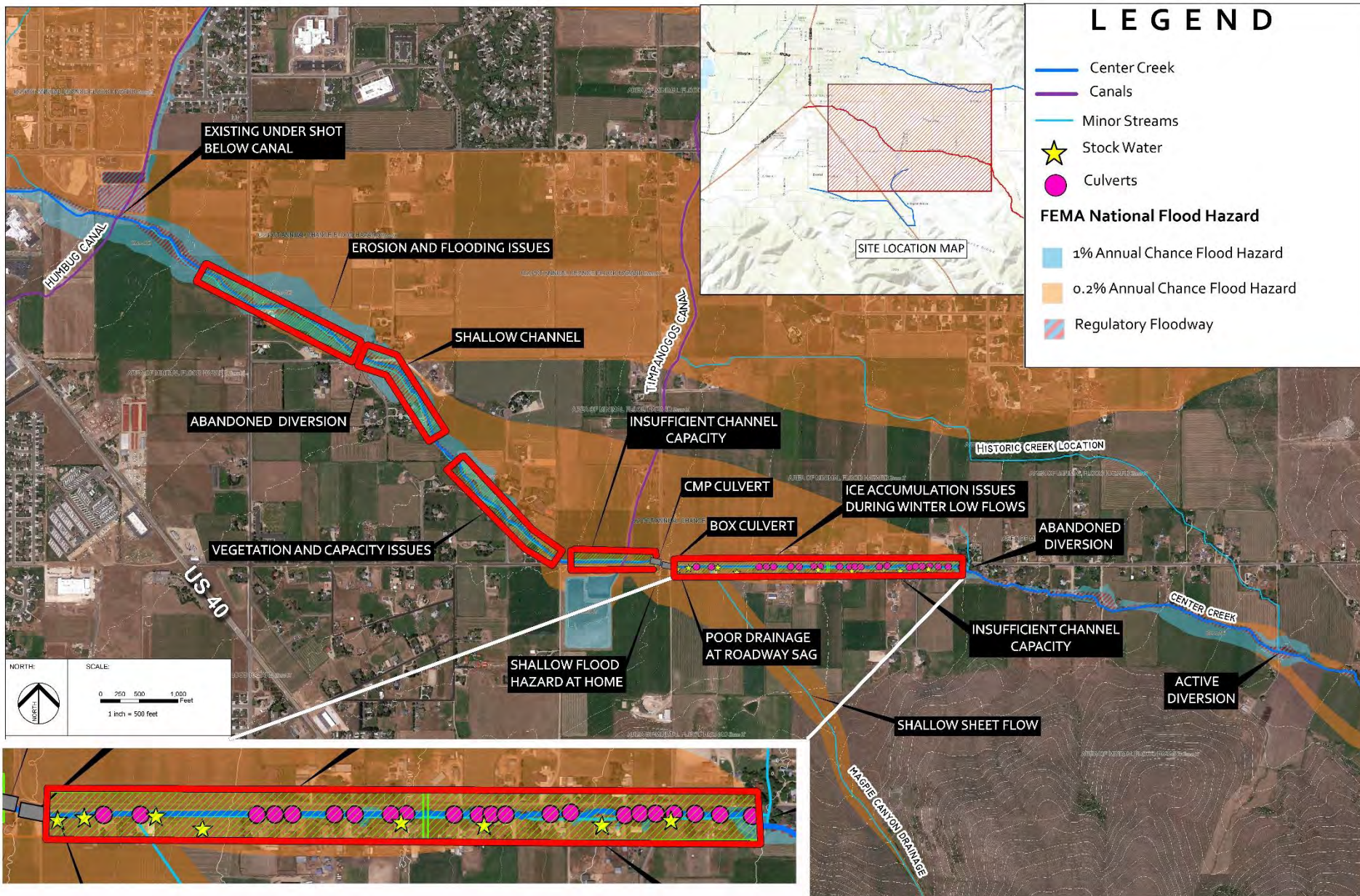
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Center Creek Existing Issues



Daniel Irrigation Existing Conditions

- Pipe Capacity Deficiencies
- Low Operating Pressure
- Existing Pipeline Location
- Middle Pond Water Source Improvements



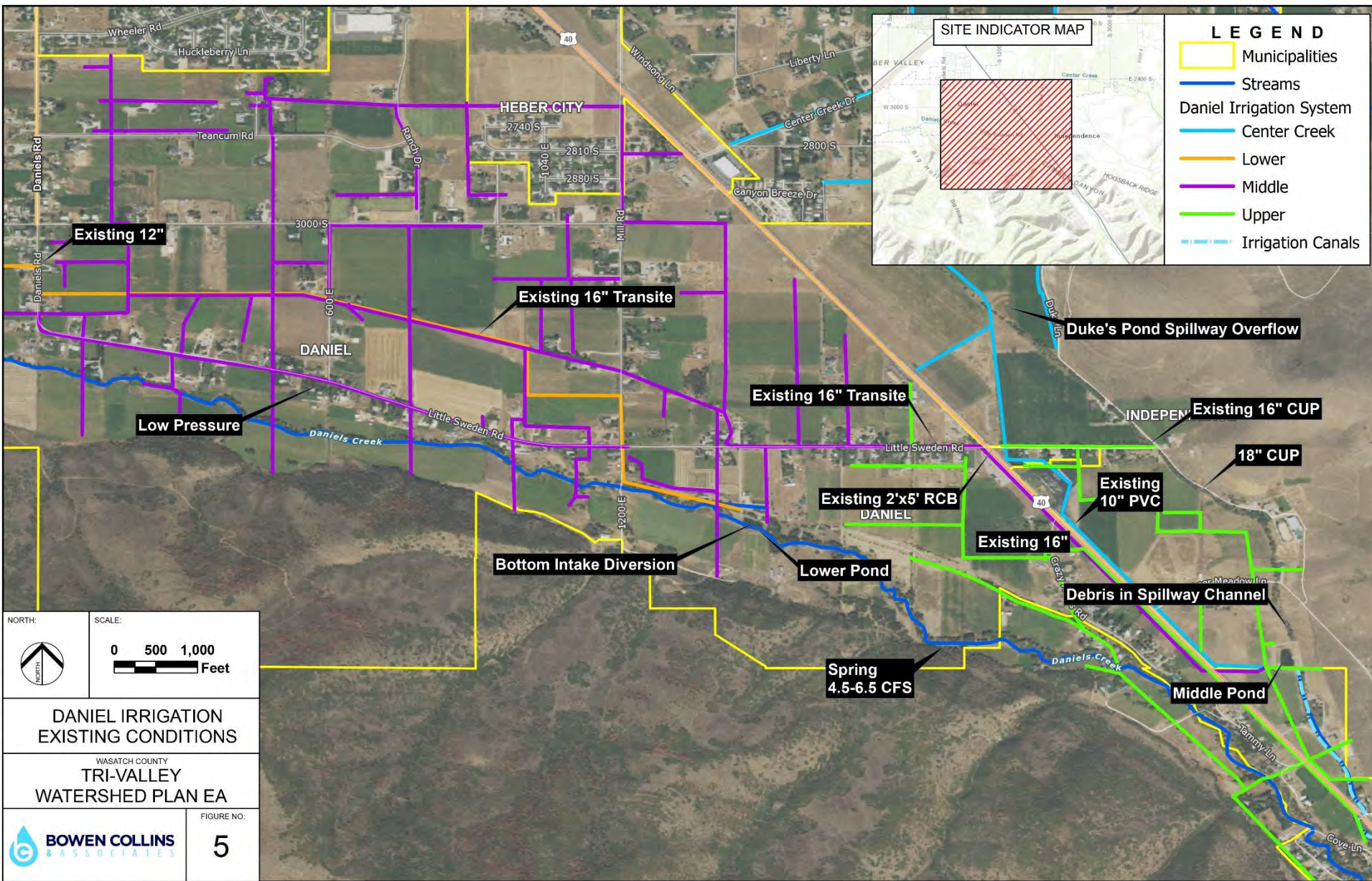
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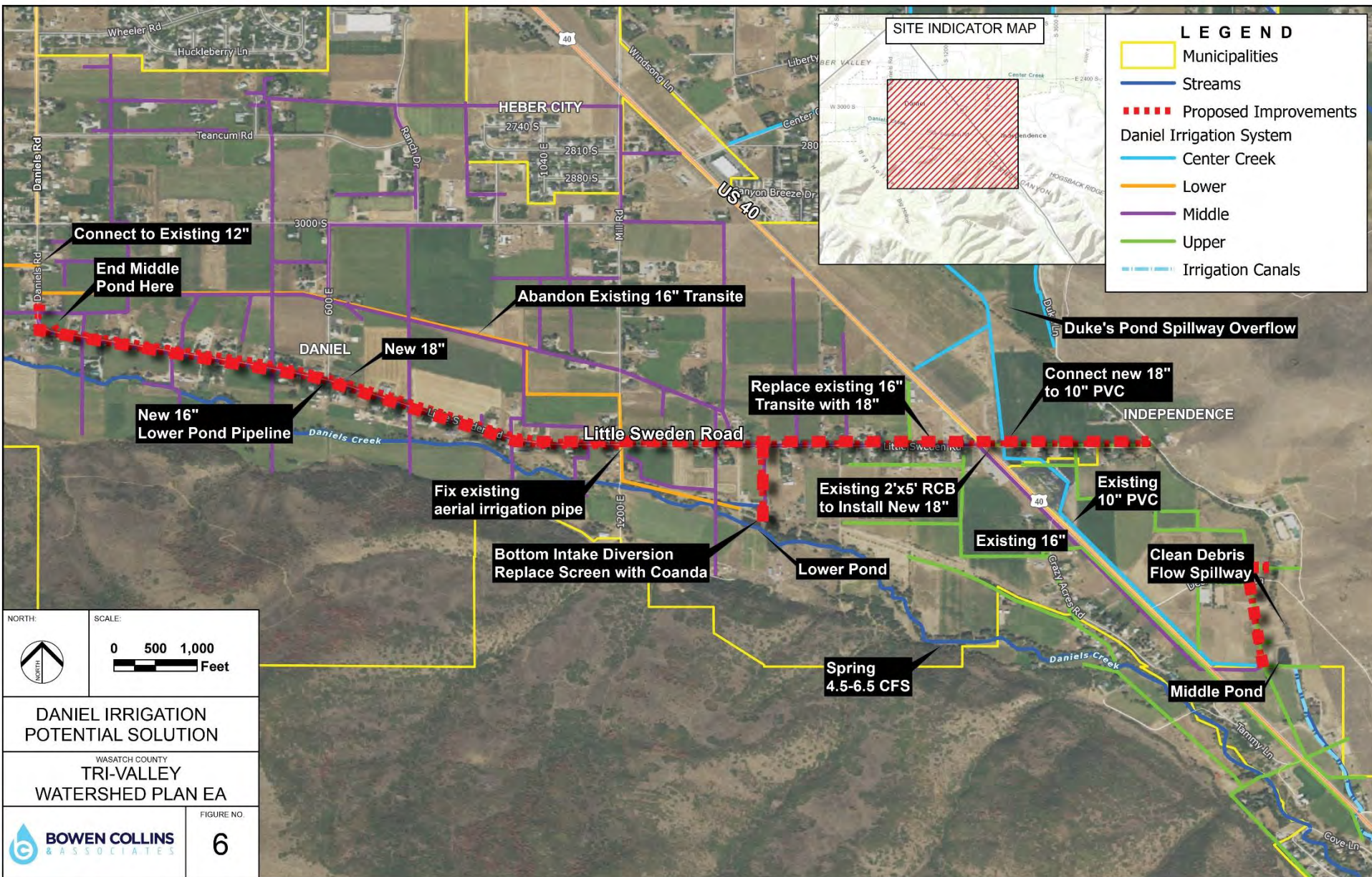


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Daniel Irrigation Existing Conditions



Daniel Irrigation Proposed



Questions



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Breakout Sessions

- Lake Creek (Room 159)
- Center Creek (Stay Here)
- Daniel Irrigation (Room 158)



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