Colorado Nonpoint Source Project - FY2011
Project Implementation Plan

Project Title	Animas and Florida River Water Quality and Habitat Improvement Project

1.0 Project Proposal Summary

Sponsor	
Organization Name	San Juan Resource Conservation and Development
E-mail address	sjrcd@hotmail.com
Mailing Address	954 E. 2nd Ave, Suite 104, Durango, CO 81301
City, State and Zip	Durango, CO 81302
Telephone Number	(970) 382-9371
Fax Number	(970) 247-3412
Federal Tax ID	742408579

Project Coordinator or Primary Contact	
Name	Ann Oliver
Title	Coordinator, Animas Watershed Partnership
E-mail Address	annsoliver@gmail.com
Mailing Address	2340 CR 203
City, State and Zip	Durango, CO 81301
Telephone Number	(970) 903-9361
Fax Number	none

Project Funding
CO NPS Funds Requested $159,245 + Match (cash/in-kind) $108,698 = Total Project Cost $267,943
Federal Funds - Federal Cooperator Contribution (Please do not include in the total.) $12,630

Project Start Date	March 2013	Project End Date	February 2016
Geographic Coverage (check one)	Statewide	X Regional (Watershed)	X Site Specific

Project Location	
River Basin	San Juan River Basin
Watershed(s)	Animas River; Florida River
Watershed size	1357 square miles; 221 square miles
303(d) listed Stream	Yes No X Listed Segment
HUC(s) (8 digit USGS Hydrologic Unit Codes)	*14080104; 140801040803*
County(ies)	La Plata County, CO
Position coordinates of project location in decimal form	Latitude 37.15675 Longitude -107.76085

NPS Pollution Source categories to be addressed (Check all that apply)			
X	Agriculture		Silviculture
X	Habitat Modification (drainage/filling wetlands, stream bank destabilization)		Hydrologic Modification (changes to water flow as in reservoir, diversions, etc.)
	Urban runoff/Stormwater		Groundwater Loading
	Mining		Natural Sources
	Construction		Other: Channel and floodplain modification/ encroachment

NPS Pollutants to be addressed (Check all that apply)			
X	Excess Nitrogen		Pesticides
X	Excess Phosphorus		Oil and grease
X	Sedimentation	X	Temperature
X	Pathogens/Bacteria		pH
	Metals	X	Habitat impact
	Low dissolved oxygen		Other:

Estimate Load Reduction, if checked for excess nitrogen, excess phosphorus and/or sedimentation	
# pounds of nitrogen reduced by project Determined through SAPP and project evaluation.	To be estimated in the Sampling and Analysis Project Plan (SAPP)
# pounds of phosphorus reduced by project Determined through SAPP and project evaluation.	To be estimated in the SAPP
# tons of sediment load reduced by project Determined through SAPP and project evaluation.	

Project Description

The Animas and Florida River Water Quality and Habitat Improvement Project ("the project") will be focused on implementing agricultural best management practices (BMPs) recommended in the Animas Watershed Based Plan. The targeted BMPS will address top sources of contamination identified in a major tributary, the Florida River, ranked as a priority inflow for nutrient and sediment loading to the Animas River. The project incorporates riparian fencing and irrigation efficiency improvement BMPs, monitoring and evaluation of project results, and strategic outreach to key audiences.

Project Goal

The primary goal of the project is to improve the water quality and aquatic habitat of the lower Florida River and the Animas River by reducing the amount of nitrogen and phosphorus contributed to the Florida River and ultimately to the Animas River. In addition, the Project aims to sustain and advance the mission and collaboration of the AWP and to educate key audiences about water quality.

2.0 Statement of Need

2.1 Water Quality Priorities

Recent measurements have shown high levels of nitrogen and phosphorus at the inflow of the Florida River to the Animas River. The *Animas River Watershed Based Plan* reports that the Florida River, a perennial tributary, is a significant source of nutrients to the Animas River. In July 2010, of 31 inflows to the Animas River that were sampled between Baker's Bridge and the Colorado/New Mexico state line, the Florida River ranked 2nd among non-permitted inflows located outside of the Durango Municipal Separate Storm Sewer System Permit Area for nitrogen loading and 3rd for phosphorus loading.

Both the Florida River and the Animas River below the Florida are classified as Recreation E, Aquatic Life Cold 1, Water Supply and Agriculture uses by the Colorado Water Quality Control Commission. In Colorado, neither the Florida River, nor the two lowest segments of the Animas River (Junction Creek to Southern Ute Indian Tribe (SUIT) Boundary and SUIT Boundary to the Colorado/New Mexico border) are included on Colorado's 303(d) list, or have completed Total Maximum Daily Loads (TMDLs). However, the latter segment has not been assessed. In NM, the segment from the San Juan River to Estes Arroyo is recognized as impaired for E. coli, nutrient/eutrophication biological indicators, water temperature and turbidity. The nutrient TMDL for this segment states that 93% of total nitrogen and 91% of total phosphorus in the Animas River is from non-point sources. The target load reduction is 130lbs/d total nitrogen and 44lbs/d total phosphorus. In addition, the Animas River from Estes Arroyo to the Southern Ute and Colorado border is on the NM 303(d) list for E. coli, total phosphorus, sedimentation/siltation, water temperature and turbidity. Nutrient levels steadily increase downstream from the stateline to the San Juan River, and the San Juan Watershed Group has identified nutrient enrichment as high priority water quality impairment in their *San Juan Basin Watershed Management Plan.*

The project would implement at a local level the goals and objectives of the *Colorado NPS Management Plan (2005)*. The plan identifies reduction of sediment, nitrogen and phosphorus loading to CO waters as a joint priority with EPA. The project is focused on reducing loading of these pollutants to the Florida River and to the Animas River. The *Colorado 2005 – 2010 Nonpoint Source Action Plan* aims to conduct voluntary nonpoint source projects with active groups of citizens. The AWP is just such a group of citizens. The Action Plan aims for activities to have been identified in a local watershed based plan. The *Animas River Watershed Based Plan* identifies the Florida River as a significant source of sediment and nutrient loading to the Animas River, and suggests BMPs like those in the project. The Action Plan aims to monitor success and support strategic outreach. The project includes monitoring to assess water quality changes associated with BMPs, and proposes outreach linked directly to issues and actions.

2.2 Water Body Description

The Hydrologic Unit Code for the Upper Animas Valley is 1408010405 and for the Lower Florida River is 1408010410. The Animas River is a perennial 3rd or 4th order stream (New Mexico Department of Game and Fish. 2006. Comprehensive Wildlife Conservation Strategy for New Mexico. New Mexico Department of Game and Fish. Santa Fe, New Mexico. 526 pp + appendices). The Florida River is the largest tributary to the Animas River. It is the last perennial tributary to join the Animas River before it's confluence with the San Juan River, about 33 miles downstream.

Stream flow in the Animas River is typical of mountain streams of the southern Rocky Mountains. Stream flow is dominated by snowmelt runoff, which typically occurs between April and July peaking in late May or early June. Snowmelt runoff is augmented by monsoon rains from July through October. Low stream flow conditions exist from late August to March. Base stream flow in the study area is maintained by ground-water flows. Stream flow in the lower Florida River is driven by the management of releases from Lemon Reservoir and by the diversion and return flows of irrigation water downstream of the reservoir. Historical and live stream flow conditions in Colorado can be found at: http://waterwatch.usgs.gov/?m=real&r=co&w=map (BUGS 2011).

The approximately one-mile reach of river to be treated under this implementation project is a C4 stream type (Rosgen 1996). The stream banks are dominated by herbaceous vegetation and largely lack any overstory of woody vegetation. Nevertheless, there is abundant evidence of existing living root stock of native woody vegetation including: coyote and other willows, silver buffalo berry, river hawthorne, skunkbush sumac, etc. The stream channel bed appears to be stable. There are a few short lengths of rapidly eroding cutbanks.

The project site lies on privately owned "fee land" within the Southern Ute Tribal Boundary, where fisheries are managed by the Southern Ute Division of Wildlife. According to the partner landowners at the project site on the Florida River, trout have not been plentiful in this reach of river since the 2002 drought. Due to the lack of woody vegetation overstory within this reach, there is very little shaded water. Also, although embeddedness has not yet been measured in this reach, a walking survey of the channel conducted on August noted that the channel appears highly embedded with fine sediments.

2.3 Map of Watershed Location *(Appendix)*

2.4 General Watershed Information

The Animas and Florida River flow south out of the San Juan Mountains. The Florida River joins the Animas River downstream of Durango, about 4 miles north of the Colorado/New Mexico Stateline. Elevation ranges from 5994 ft at the confluence with the Animas River, over 13,000 feet at the top of each watershed. Average annual precipitation ranges 15 inches to 45 inches in the Florida river drainage, depending on elevation. Soils from south of approximately Highway 160 and Durango are often shale derived. Native upland vegetation in this area is pinyon juniper with some sagebrush and ponderosa pine stands. Native riparian vegetation is dominated by cottonwood (both narrowleaf and Fremont) and willows, with patches of other native species such as, silver buffalo berry, river hawthorne, and skunkbush sumac.

Land Ownership in La Plata County, Colorado is 43% private, 16% tribal and 41% state and federal. Agricultural land makes up about 25% of the total land in La Plata County (BUGS 2011). Similar to the larger Animas Watershed, the Florida Watershed supports a variety of landuses including residential development, commercial development, gravel mining, oil and gas development, and irrigated agriculture. The main crop is grass and/or alfalfa hay irrigated by the range of systems from traditional flood irrigation to modern center pivots. Livestock include cow-calf and sheep operations, commercial and recreational horse properties, as well as lesser numbers of other livestock.

The Florida River watershed upstream of the project site comprises the Source Water Protection Area for seven public water suppliers, including Colorado Trails Ranch, Forrest Groves, Colvig Silver Camps, Edgemont Ranch Metro District, El Rancho Florida Metro District and the Durango La Plata Airport. This area is in a mix of public, private and tribal lands, with most of the headwaters under US Forest Service management and the lower elevation lands almost entirely private or tribal.

2.5 Type of Water Quality Problem including Sources

Water quality problems on the Animas River associated with the Florida River inflow include chemical pollution (nutrients) and degradation of the physical habitat by turbidity and sedimentation. In July 2010 sampling of 31 inflows to the Animas River between Baker's Bridge and the CO/NM state line, the Florida River ranked 4th among non-permitted inflows ranked 2nd among non-permitted inflows located outside of the Durango Municipal Separate Storm Sewer System Permit Area for nitrogen loading and 3rd for phosphorus loading.(BUGS 2011). During the summer months, the Florida River is frequently observed to run more turbid then the Animas at their confluence.

It does not appear that a study has been completed to identify the predominant sources of nutrient and sediment loading in the Florida River. However, the Animas River Watershed Based Plan identified flood irrigation as a likely significant contributor of these contaminants to both the Animas mainstem and the Florida River. The plan also noted that nutrient enrichment can be exacerbated by the loss of riparian habitat (BUGS 2011).

The project site for implementation of BMP's is an approximately 1 mile stretch of river along the Florida River. The river banks in this reach is flanked by irrigated pastures that support year round use by livestock (horses and cows) with free access to the river banks and channel. The predominant vegetation on the river banks is herbaceous. The river is almost completely unshaded by vegetation. The pastures are irrigated using traditional flood irrigation practices. Flood irrigation occurs between March and October on these lands and produces significant overland flow to the floodplain and river channel. This frequent surface flow results in sheet and rill erosion that delivers sediment, nutrients and manure to the floodplain and river.

3.0 Project Description

3.1 Environmental and Programmatic Goals

Environmental Goal: Improve water quality and aquatic habitat in the Florida River by reducing nutrient loading and improving aquatic habitat in approximately 1 mile of this high priority tributary of the Animas River.

Programmatic Goal 1: Implement Best Management Practices that will improve water quality and aquatic habitat in the Florida River.

Programmatic Goal 2: Measure and evaluate project effectiveness.

Programmatic Goal 3: Increase information and awareness of water quality issues and tools in the Animas River watershed.

Programmatic Goal 4: Implement and administer a project that is effective at addressing nonpoint source pollution and at outreach to key audiences.

3.2 Objectives, Tasks, and, Products

Programmatic Goal 1

Objective 1: Reduce nutrient loading from irrigated pasture and upland runoff along 1 mile of the Florida River by increasing irrigation efficiency and protecting riparian areas.

Task 1 Replace traditional flood irrigation with more efficient center pivot sprinkler irrigation, and install riparian fencing BMPs on Durango La Plata Airport and Fassbender properties on the lower Florida River.

Products: 0.8 miles of river channel protected with fencing; approximately 15 acres of native riparian buffer ; approximately 26.5 acres converted from flood to sprinkler irrigation; Pollutant loading reductions estimated through SAPP implementation

Programmatic Goal 2

Objective 2: Plan and conduct monitoring to assess the effectiveness of BMPs and overall project implementation.

Task 2 Work with the Measureable Results Project (MRP) to develop the Sampling and Analysis Project Plan to identify project evaluation and monitoring methods and ensure data quality. Monitor and Evaluate project progress and outcomes. Enter chemistry and macroinvertebrate data into CO Data Sharing Network (DSN). Complete reports to evaluate project progress and effectiveness.

Products: SAPP; report of monitoring methods and results, AWP data entered into STORET via DSN; semi-annual reports and final report

Programmatic Goal 3

Objective 3 Conduct education and outreach to inform key audiences about water quality in the Animas Watershed, current efforts and tools for improvement. Improve capacity and momentum to continue water quality improvement projects for priority areas within the Animas River Watershed.

Task 3 Conduct outreach and education processes, involving the local press, a new AWP website, presentations at AWP Meetings as well as to the City of Durango, La Plata County and other key partners.

Products: 1 press release; 1 newspaper article; 6 website updates/year, 6 steering committee meetings, 4 AWP meetings/year; 2 days of youth day camp per year; presentations; volunteer workdays; additional community interest, awareness and support.

Programmatic Goal 4

Objective 5 Successfully complete the project within approved budget by February 2016.

Task 4 Administer and manage the project through monthly reimbursement requests, progress reports, and AWP Steering Committee input. Seek additional cash and in-kind resources (e.g. CWCB, NRCS, etc.). Ensure coordination among partners; timely reporting, expense and match documentation and retention.

Products: 18 reimbursement statements/progress reports; acceptance of all deliverables by WQCD and EPA.

3.3 Milestone Table (*Complete in the 2011 Budget Table)*

3.4 Environmental Permits
No permits will be required for implementing riparian fencing and installation of sprinkler systems.

3.5 Lead Project Sponsor Qualifications
The Animas Watershed Partnership will lead this project, with support from the San Juan Resource Conservation and Development (SJ RC&D) as their fiscal sponsor. The SJ RC&D formed in 1972 as a 501c3 non-profit partnered and supported by the USDA-NRCS. The SJ RC&D serves as fiscal sponsor for many groups and organizations, managing numerous project grants. Over the last 15 years, the SJRC&D has managed many nonpoint source projects from Colorado (CO) and New Mexico (NM).

The AWP Steering Committee is made up of eight key watershed partners from CO and NM, and one from the Southern Ute Indian Tribe. Four members from each state are drawn from local government, municipalities, environmental and private partners. As AWP coordinator, Ann Oliver will manage all aspects of this project. Ms. Oliver has an MS in Wildlife Biology and over 18 years of experience working in watershed management on the west slope of Colorado, designing and implementing riparian research and management projects, working collaboratively with private property owners, public agency experts, contractors, teachers, students and communities.

3.6 BMP Operation and Maintenance

The operation and maintenance (O&M) of the BMPs funded under this project will be the responsibility of the partnering landowners. In order to ensure proper operation and maintenance of the BMPs funded under this project, AWP will conduct annual on-site evaluations with the landowner and lessee. If any O&M problems are identified, AWP, the landowners and lessee will discuss and agree on the remedial steps to be taken by the landowner/lessee, as well as a timeframe for completion of these steps. These agreed upon steps will be described in a letter, to be followed by another on-site evaluation. Remedial steps will be paid for by the landowner.

4.0 Coordination Plan

4.1 Lead Project Sponsor and Cooperating Organizations (*In the Appendix)*

4.2 Local Support

The AWP formed in 2002 out of concern for high nutrient levels in the Animas River in CO and NM. The AWP is working together across state and tribal boundaries to protect and improve the quality of water resources in the Animas Watershed. Partners include private landowners, environmental groups, municipalities, counties and states, as well as the SUIT and Ute Mountain Ute Indian Tribe. BUGS Consulting completed the *Animas Watershed Based Plan (2011).* The efforts of the Animas Watershed Partnership are guided by a highly engaged Steering Committee which is composed of nine members filling the following seats: 1 municipal, 1 governmental, 1 environmental and 1 citizen each from CO and NM, and 1 tribal seat. The Steering Committee meets monthly.

To date the Animas Watershed Partnership has benefitted from over $30,000 in local cash support by the CWCB, San Juan Public Lands (SJPL), Southwest Water Conservation District, Trout Unlimited 5 Rivers Chapter and BHP Billiton/New Mexico Coal.

4.3 Coordination with Other Projects and Organizations

The project is well coordinated with other pertinent and complimentary programs. In March 2011, the AWP coordinator attended an NRCS meeting to provide input to help NRCS targeted conservation funding. The participants agreed that the Florida River should be proposed as a Targeted Conservation Project, in part based on the presentation of findings from the Animas Watershed-Based Plan. As a follow-up to this meeting, the La Plata Conservation District and the NRCS hosted an evening informational meeting to field interest and provide information to landowners within the Florida River drainage. The evening was well attended by about 30 local residents. In addition to the hosts, organizations that presented information and funding opportunities included the Southern Ute Indian Tribe Water Quality Program and the Animas Watershed Partnership.

The City of Durango is a key partner of the Animas Watershed Partnership. The City obtains the majority of its drinking water from the Animas River. In spring 2011 the City joined with six other public water suppliers to form the Florida River Source Water Protection Partnership and to jointly develop a source water protection plan. These porters included: Colorado Trails Ranch, Forrest Groves HOA, Colvig Silver Camps, Edgemont Ranch Metro District, El Rancho Florida Metro District and the Durango La Plata County Airport. The group has identified the potential sources of contamination in the Florida River drainage upstream of the lowest intake, the Durango La Plata County Airport's infiltration gallery on the Florida River. The group prioritized their contamination concerns and identified best management practices for addressing these concerns. Agricultural runoff was one of the top potential sources of contamination of concern to the group.

In developing this project with the Durango La Plata Airport and their neighbor and lessee Keith Fassbender, AWP has sought and received input and cooperation from both NRCS and the Southern Ute Indian Tribe 319 Program. This coordination will continue for the life of this project.

4.4 Similar Watershed Activities *(Not required for the proposal; do not complete or delete)*

This project will compliment and not duplicate existing efforts. No single entity is promoting action or education at this scale and with a focus on the Animas River Watershed as a whole. Many entities are involved in working on specific geographic areas within the watershed, or specific sources of contamination or habitats for specific wildlife species. Efforts to improve aquatic habitat quality and/or water quality in the watershed are currently being conducted by the Southern Ute Indian

Tribe, the Animas River Stakeholders, Trout Unlimited, the San Juan Public Lands, the NRCS, the Colorado Department of Reclamation, Mining and Safety, and Colorado Parks and Wildlife.

The proposed project compliments these efforts because it is focused on reducing nutrient contributions to the river, issues that most of these efforts are not trying to address. And for projects, such as the Southern Ute Indian Tribe's 319 Program, that are aimed at reducing nutrient and sediment pollution in the river, this project is complementary, not duplicative. Major nutrient and sediment contributions to the Animas River are dispersed and cumulative across the watershed. They are contributed by land uses occurring across a high number of relatively small and often privately owned parcels. Reducing nutrient and sediment loading to the Florida and Animas Rivers will depend on robust action at many different sites, employing a range of BMP's across the landscape. Since this is one of the first projects implemented under the guidance of the watershed-based plan, the intent is to encourage and to leverage additional restoration and protection projects in the watershed with this project as a reference site.

5.0 Evaluation and Monitoring Plan

5.1 Evaluation and Monitoring Methods

The Animas Watershed Partnership will coordinate with the Mountain Studies Institute and the WQCD's Measurable Results Project to create a SAPP to monitor and evaluate the outcomes of the efforts outlined in the PIP. Table 5.1provides a breakdown of how each task associated with this project may be monitored. Finalization of some of the strategies will occur with the initial SAPP. The SAPP will include a strategy for collecting pre-project data to establish baseline condition prior to BMP installation, and will specify measures of success.

Table 5.1

Environmental Goal: Improve water quality and aquatic habitat in the lower Florida River and the Animas River.			
	Target Results	Evaluation	Measures of Success
Objective 1 Reduce nutrient loading by implementing BMPs.			
Task 1	Reduce nutrient loading from irrigated pasture and upland runoff along 1 mile of the Florida River by developing a riparian buffer of native vegetation along this reach and by replacing traditional flood irrigation with sprinkler irrigation.	Nutrient modeling, instream Total N (TKN, NO2, NO3) & Total P load, instream DO, macroinvertebrate and pH monitoring, instream algal coverage monitoring, riparian assessment. Photo points.	N&P reductions (predicted by STEPL if possible), trending toward decreasing load. DO, macroinvertebrates and pH trend toward or maintain standards. Algal coverage trends toward decreasing coverage. One point increase in score of rapid assessment of riparian growth.
Objective 2 Plan and conduct monitoring to assess the effectiveness of BMPs and overall project activities.			
Task 2	Approved SAPP. Committee of technical professionals engaged. Useable, high-quality data.	Coordinate with MRP and MSI to develop SAPP. Data Quality Objectives. Data entry into DSN.	Approval of SAPP. All data achieves Data Quality Objectives. All AWP collected chemical

	Accurate evaluation of project effectiveness	# timely semi-annual reports. WQCD accepted Final Report. $ of additional resources # new stakeholders.	and macroinvertebrate data stored in DSN. All data collected in accord with SAPP (responsible parties, completeness etc.) 5 Semi-Annual Reports, 1 NPS Final Report.
Objective 3 Conduct education and outreach.			
Task 3	1 press release; 1 newspaper article 12 website updates 12 AWP Mtgs 18 AWP Steering Committee meetings 6 Days of young adult "day camp" Additional resources. Additional stakeholder/landowner outreach	# positive newspaper articles on Project/ Partnership. # at AWP mtgs # of visits to website # of new inquiries to AWP	3 positive newspaper mentions by others 18 attendees AWP mtgs, avg. >10 new partners $30K additional resources (beyond currently committed match) Interest in further implementation of BMPs in the area.
Objective 4 Successfully complete the project.			
Task 4	Project tasks completed, Grant contract fulfilled. WQCD, AWP, others informed on progress.	# tasks completed # timely reimbursement statements /progress reports	All tasks 18 reimbursement statements/progress reports,

5.2 Development of Sampling and Analysis Project Plan (SAPP)

A Sampling and Analysis Project Plan (SAPP) will be written and approved prior to monitoring and implementation activities. A draft plan is in development following detailed discussions and an additional site visit over the last few months. This has facilitated more detailed cost estimates for the project budget.

5.3 Monitoring Strategy

The project monitoring strategy employs a weight of evidence approach that monitors chemical, biological and physical parameters (see table 5.1). Where applicable, Colorado water quality standards will be the target endpoints. Trending towards these standards is also considered success given the difficulty in assessing progress over time and the background conditions. For parameters that do not have a standard, decrease in loading or overall decrease in concentration is considered success. Pre-project monitoring, commencing in May 2013 will continue until October 2014. During this time period, the riparian fence will be constructed, yet livestock will be allowed to access to the river to simulate a non- fenced condition. This allows the project 2 field seasons of pre-project assessment. In 2015, the irrigation improvement will be constructed, and no monitoring will take

place until spring of 2016. This phase of monitoring will continue for two field seasons and serve as post-construction monitoring. The specific monitoring strategy for this project will be finalized and identified through completion of the SAPP. MRP will assume responsibility for post-construction monitoring outside of the contract period as specified in the SAPP. Overall success of the project will be measured in evaluation of trending of the data sets toward state standards or improving condition.

5.4 Data Storage, Management and Reporting

All water chemistry data and macroinvertebrate will be uploaded to the DSN for storage and automatic upload to STORET. All other data will be stored and managed in Excel spreadsheets or appropriate software in accordance with AWP procedures for data storage and provided to CDPHE MRP. MRP will store these data for comparison to post-project data.

5.5 Data Models

Models to be used in the monitoring and evaluation of this project will be identified in the SAPP. STEPL or another similar model may be used to model nutrient load reductions from BMP implementation.

6.0 Budget

6.1 Budget Tables

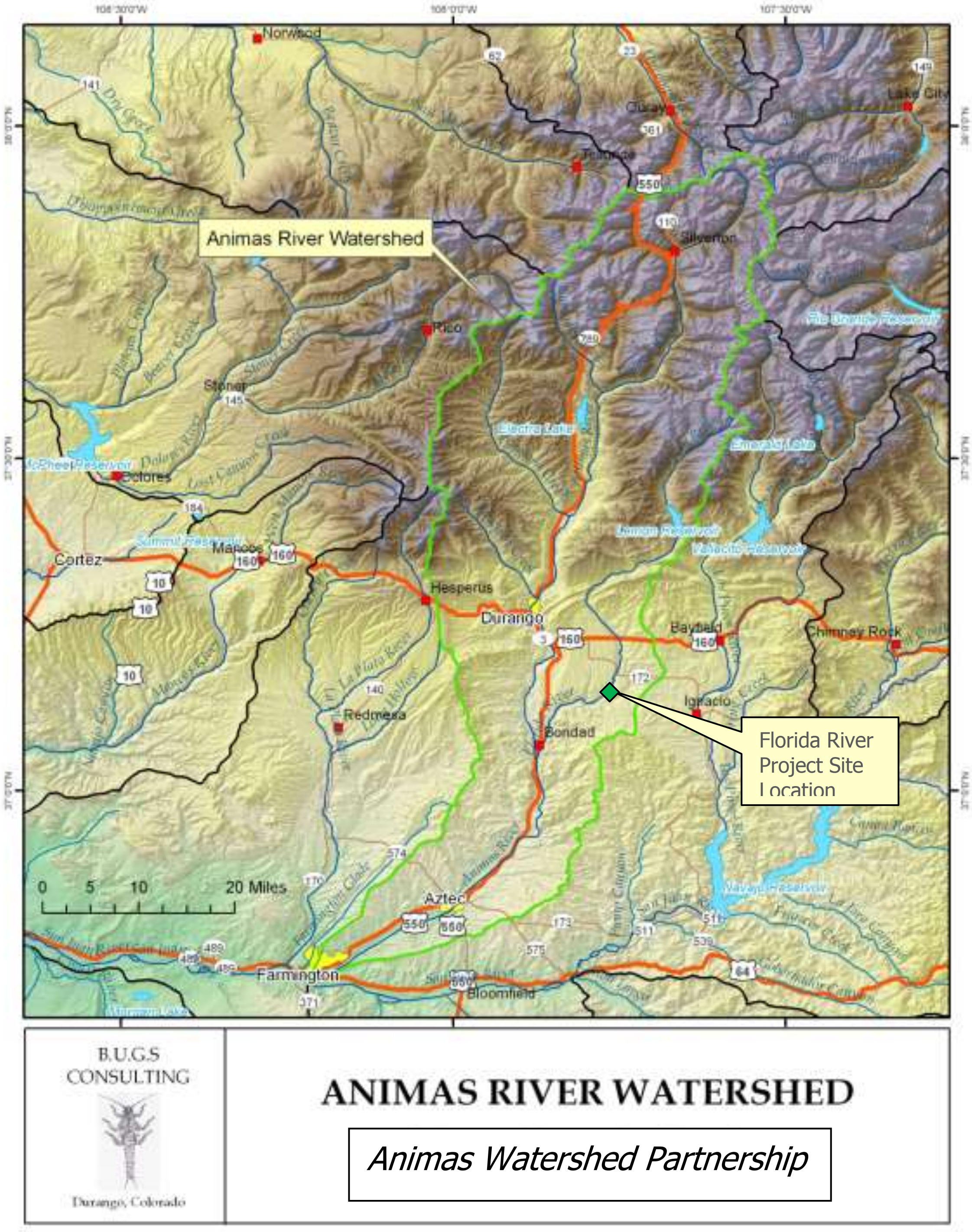
7.0 Public Involvement

7.1 Process for Public Involvement

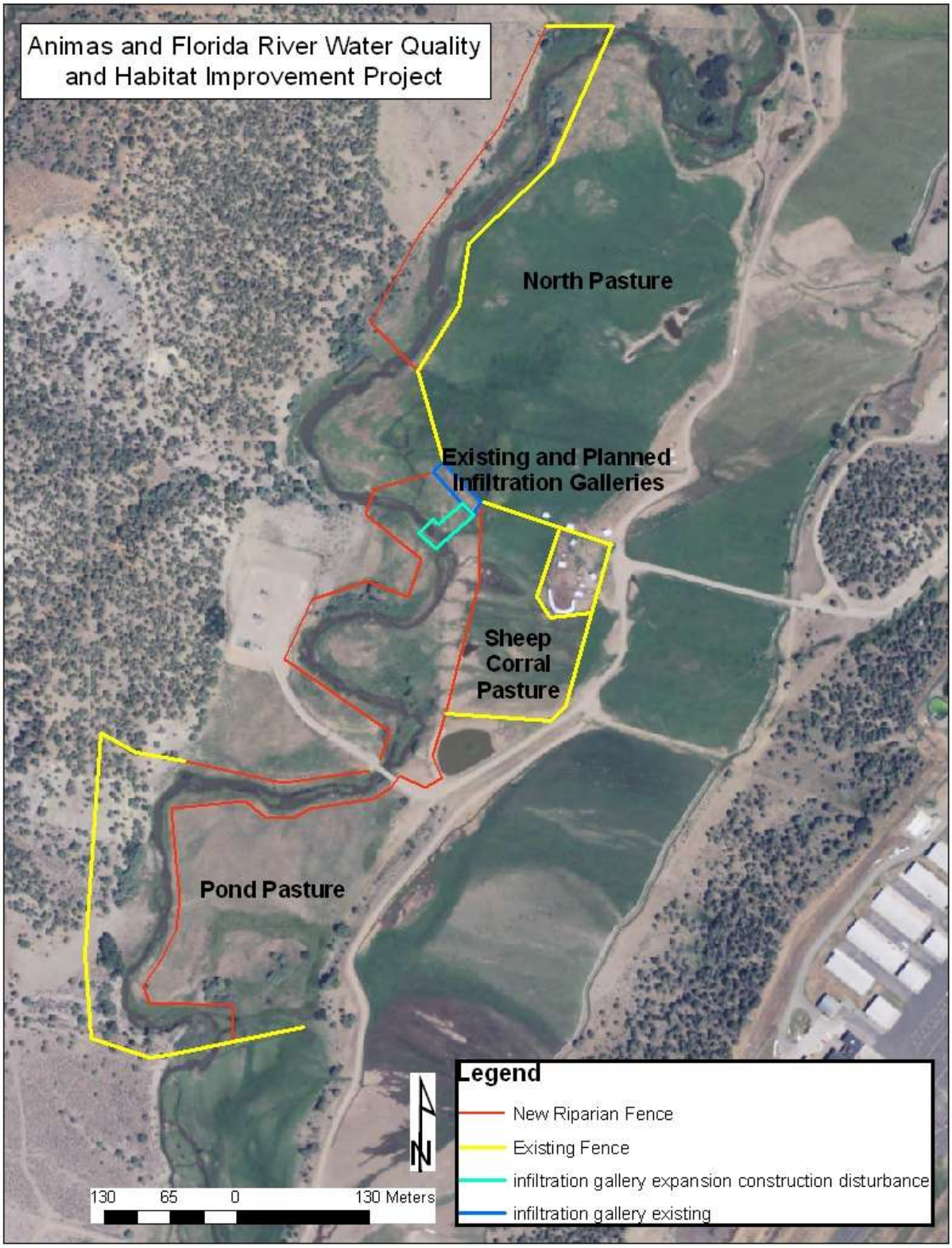
To ensure public involvement in the project, the AWP Coordinator will write press releases and inform newspaper articles. The AWP are creating and will regularly update a webpage to be hosted by the SJRC&D, where all meeting notes, presentations, press and data will be accessible to the public. The AWP coordinator will take the lead in planning and advertising quarterly AWP meetings, with invited speakers on topics directly related to nutrient, sediment and microbe monitoring and management within the watershed. All AWP meetings are open to the public and are advertised in via regional newspaper and radio outlets, as well as partner listserves. The AWP will work with community partners including the Southwest Conservation Corps to promote awareness and appreciation of Animas River water quality through day camps with young adults.

Appendix Contents

- 2011 Budget Table
- Project Maps: Watersheds Overview, Site Aerial
- Lead Project Sponsor and Cooperating Organizations



Animas River Watershed
Florida River Project Site Location
Norwood
Ouray
Lake City
Silverton
Rico
Stoner
Dolores
Cortez
Mancos
Hesperus
Durango
Bayfield
Chimney Rock
Ignacio
Redmesa
Bondad
Aztec
Farmington
Bloomfield
Electra Lake
Emerald Lake
Vallecito Reservoir
Navajo Reservoir
Rio Grande Reservoir
0 5 10 20 Miles
B.U.G.S
CONSULTING
Durango, Colorado
ANIMAS RIVER WATERSHED
Animas Watershed Partnership


Animas and Florida River Water Quality and Habitat Improvement Project
North Pasture
Existing and Planned Infiltration Galleries
Sheep Corral Pasture
Pond Pasture
Legend
New Riparian Fence
Existing Fence
infiltration gallery expansion construction disturbance
infiltration gallery existing
N
130 65 0 130 Meters

Lead Project Sponsor and Cooperating Organizations

Lead Sponsor			
Agency Name	San Juan Resource Conservation and Development		
Agency Address	954 E. 2nd Ave, Suite 104, Durango, CO 81301		
Role/contribution	AWP Fiscal Agent		
Contact Person	Pam Deem	Telephone	970-382-9371
E-mail address	sjrcd@hotmail.com		

Cooperators			
Agency Name	Durango La Plata County Airport		
Agency Address	1000 Airport Road, Box 1, Durango, CO 81303		
Role/contribution	Landowner, In-kind services		
Contact Person	Don Brockus	Telephone	970-382-6079
E-mail address	brockusdr@ci.durango.co.us		

Cooperators			
Agency Name	City of Durango		
Agency Address	949 East Second Avenue, Durango, CO 81301		
Role/contribution	AWP Steering Committee Member		
Contact Person	Kevin Hall, Assistant Dir. of Community Development	Telephone	970-375-7315
E-mail address	HallKS@ci.durango.co.us		

Cooperators			
Agency Name	City of Farmington		
Agency Address	800 Municipal, Farmington, NM		
Role/contribution	AWP Steering Committee Chair; AWP Participant		
Contact Person	Paul Montoia	Telephone	505-599-1393
E-mail address	pmontoia@fmtn.org		

Cooperators			
Agency Name	n/a		
Agency Address	n/a		
Role/contribution	Landowner Support; Cooperating Lessee; Contractor with in-kind contribution		
Contact Person	Keith Fassbender	Telephone	970-259-7097
E-mail address			

Cooperators			
Agency Name	Mountain Studies Institute		
Agency Address	1315 Snowden St. #305, P.O. Box 426, Silverton, CO 81433		
Role/contribution	In-kind match toward project monitoring		
Contact Person	Aaron Kimple, Project Manager	Telephone	(970) 382-6908
E-mail address	msi.fens@gmail.com		

Cooperators			
Agency Name	Natural Resources Conservation Service		
Agency Address	Ignacio Tribal Office		
Role/contribution	AWP partner, potential funding, landowner partnerships, outreach and education		
Contact Person	Ed McCaw	Telephone	(970) 563-0178
E-mail address	edwin.mccaw@co.usda.gov		

Cooperators			
Agency Name	San Juan Citizens Alliance		
Agency Address	PO Box 2461, Durango, CO 81302		
Role/contribution	In-kind match toward education and outreach program.		
Contact Person	Wendy McDermott	Telephone	(970) 259-3583
E-mail address	meghan@sanjuancitizens.org		

Cooperators			
Agency Name	Trout Unlimited Five Rivers Chapter		
Agency Address	706 County Road 220, Durango, Co 81303		
Role/contribution	Cash match, AWP Steering Committee Member		
Contact Person	Chuck Wanner	Telephone	(970) 259-0075
E-mail address	cwanner@frontier.net		

Cooperators			
Agency Name	San Juan Water Commission		
Agency Address	7450 E. Main Street		
Role/contribution	Animas Watershed Partnership Steering Committee Member; AWP Participant		
Contact Person	Aaron Chavez	Telephone	505-564-8969
E-mail address	achavez@sjwc.org		

Cooperators			
Agency Name	Southwestern Water Conservation District		
Agency Address	841 E. 2nd Ave Durango, CO 81301		
Role/contribution	AWP Steering Committee Member, AWP Stakeholder		
Contact Person	Carrie Lile	Telephone	970-259-5322
E-mail address	carrie@durangowater.com		

Cooperators			
Agency Name	San Juan Watershed Group		
Agency Address	18 Road 4865, Bloomfield, NM 87413		
Role/contribution	AWP Steering Committee Member; Technical support, in-kind Match		
Contact Person	David Tomko	Telephone	505-632-8008
E-mail address	Jtomko73@msn.com		

Cooperators			
Agency Name	n/a		
Agency Address	n/a		
Role/contribution	Private landowner; Animas Watershed Partnership Steering Committee Member		
Contact Person	Diana Luck	Telephone	
E-mail address	good4luck@msn.com		

Cooperators			
Agency Name	n/a		
Agency Address	n/a		
Role/contribution	Private Citizen; Animas Watershed Partnership Steering Committee Member		
Contact Person	Buck Skillen	Telephone	(970)759-2726
E-mail address	fpope@bresnan.net		

Cooperators			
Agency Name	Southern Ute Indian Tribe Water Quality		
Agency Address	PO Box 737, Ignacio CO 81433		
Role/contribution	Animas Watershed Partnership Steering Committee Member		
Contact Person	Sal Valdez	Telephone	(970)563-0135
E-mail address	svaldez@southern-ute.nsn.us		

Cooperators			
Agency Name	Colorado Division of Wildlife and Colorado River Watch		
Agency Address	151 E 16th Ave, Durango, CO 81301		
Role/contribution	In-kind match in the form of River Watch Water Quality Sampling and Analysis		
Contact Person	Barbara Horn	Telephone	970.382.6667
E-mail address	barb.horn@state.co.us		