

Attachment 5
Budget Summary

North Cal-Neva Resource Conservation and Development Council, Inc.

Project Budget:

Project A: Ash Valley Ranch Irrigation Infrastructure Efficiency Project

Table 7 – Project Budget				
Proposal Title: Upper Pit River Watershed Water Conservation and Drought Mitigation Project Title: Ash Valley Ranch Irrigation Infrastructure Efficiency Project Project serves a need of a DAC?: No Funding Match Waiver request?: No				
Category	(a)	(b)	(c)	(d)
	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a) Direct Project Administration:				
a.1 Grant Administration (NCNRC&D)	\$18,000.00	\$0.00	\$0.00	
a.2 Personnel	\$10,000.00	\$0.00	\$0.00	
a.3 Contractual/Personnel: Project Director	\$17,000.00	\$0.00	\$0.00	
a.4 Contractual/Personnel: Science Advisor/Monitoring	\$3,000.00	\$0.00	\$0.00	
(b) Land Purchase/Easement	\$0.00	\$0.00	\$0.00	
(c) Planning/Design/Engineering/ Environmental Documentation (completed)				
c.1 CEQA & NEPA Clearance Completed: Cash paid to consultants by Ash Valley Ranch for CEQA & NEPA Compliance Work	\$0.00	\$16,900.00	\$0.00	
c.2 Grant Application Preparation: Fee charged by consultant for grant application preparation	\$1,500.00	\$0.00	\$0.00	
(d) Construction/Implementation:				
d.1 Electric Line Extension	\$25,600.00	\$0.00	\$0.00	
d.2 Diesel to Electric Motor Replacement 1	\$35,032.00	\$0.00	\$0.00	
d.3 Diesel to Electric Motor Replacement 2	\$20,614.00	\$0.00	\$0.00	
d.4 Pipeline Installation 1	\$170,005.00	\$0.00	\$0.00	
d.5 Pipeline Installation 2	\$70,600.00	\$0.00	\$0.00	
d.6 Pipeline Installation 1: Cash contribution committed by Ash Valley Ranch	\$0.00	\$56,800.00	\$0.00	
d.7 Pipeline Installation: Cash contribution committed by Ash Valley Ranch	\$0.00	\$23,200.00	\$0.00	
d.8 In-kind Backhoe work for Pipeline & Electric line installations committed by Ash Valley Ranch	\$0.00	\$21,000.00	\$0.00	
(e) Grand Total (Sum rows (a) through (d) for each column)	\$371,351.00	\$117,900.00	\$0.00	\$489,251.00

*List sources of funding: *Use as much space as required*

ATTACHMENT 5. BUDGET SUMMARY

Project A: Ash Valley Ranch Irrigation Infrastructure Efficiency Project

Category (a): Direct Project Administration

Project and Contractor Management will be provided by the Pit Resource Conservation District. Project and Contractor Management will be provided by the Pit Resource Conservation District Project Director for the SNC project. We have budgeted \$17,000 for this work, including travel. \$10,000 has been budgeted to cover the Pit Resource Conservation District's administrative expenses in connection with the project. The North Cal-Neva Resource Conservation and Development Council (NCNRC&D) will be responsible for overall grant administration which consists of negotiating contract with DWR, project sponsors, compiling monthly invoices, quarterly reporting, compliance and final invoices and reporting.

Category (b): Land Purchase/Easement

Not applicable

Category (c): Planning/Design/Engineering/Environmental Documentation

The project is ready to proceed and all required planning, design, engineering and environmental documentation is complete. Costs incurred to date are included as \$16,900 of the matching funds. \$1,500 is requested for grant application preparation.

Category (d): Construction/Implementation

Electrical line extension

The first phase of the project is electrical line extension. 8,280 feet of primary electrical line will be extended to the two pump locations in a buried trench. The work will be done by the local electric utility company, Surprise Valley Electric. They have provided a quote for the work and the price is included in our budget. The landowner will provide in-kind backhoe work (valued at \$21,000) to dig and fill trenches for this task and the pipeline installation. Surprise Valley Electric has given us a quote of \$25,600 to extend the electric service.

Replacement of diesel motors

Diesel motors will be replaced with one 40 HP and one 80 HP three-phase induction motor. Each pump unit installation will include a variable frequency drive panel that will convert incoming fixed frequency single-phase power into a variable frequency and voltage for controlling the speed of the three-phase induction motor. A total of \$55,646 in funding has been budgeted for this component of the project work.

Pipeline installation

We will not know the precise cost for the pump and pipeline phases of the project work until we have received bids. We have estimated that \$240,605 will be necessary to complete the work in addition to \$80,000 in matching funds and in-kind backhoe work provided by Ash Valley Ranch (see electrical line extension above). We will prioritize the work to be done on the project as follows: 1) diesel pump replacements; 2) the north/south mainline pipeline; 3) the east west mainline pipeline; 4) extensions to the mainline pipeline. The work we will complete with the requested funding will be fully functional and meet all the goals and objectives of the project.

Monitoring

The pre and post water pumping/flow monitoring will occur during the irrigation season before the project is started and in the following season after the work is completed. A total of \$3,000 dollars has been budgeted for monitoring equipment and labor.

Project B: Restoring Hydrological Function to South Ash Valley

Table 7 – Project Budget				
Proposal Title: Upper Pit River Watershed Water Conservation and Drought Mitigation Project Title: Restoring Hydrological Function in South Ash Valley Project serves a need of a DAC?: No Funding Match Waiver request?: No				
Category	(a)	(b)	(c)	(d)
	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a) Direct Project Administration:				
a.1 Grant Administration (NCNRC&D)	\$ 22,000.00			\$ 22,000.00
a.2 Personnel	\$ 4,500.00			\$ 4,500.00
a.3 Contractual/Personnel: Project Director	\$ 42,500.00			\$ 42,500.00
a.4 Contractual/Personnel: Science Advisor/Monitoring	\$ 17,500.00			\$ 17,500.00
(b) Land Purchase/Easement	\$0.00	\$0.00	\$0.00	
(c) Planning/Design/Engineering/ Environmental Documentation	\$0.00	\$0.00	\$0.00	
c.1 CEQA & NEPA Clearance Completed	\$0.00	\$0.00	\$0.00	\$ -
c.2 Grant Application Preparation	\$ 1,500.00			\$ 1,500.00
(d) Construction/Implementation:				
d.1 2011 CCPI 1/NRCS Funded Treatments: Watershed restoration treatments within the cleared project area funded by NRCS through an EQIP Contract with Ash Valley Ranch		\$ 103,908.00		\$ 103,908.00
d.2 2011 CCPI 2/NRCS Funded Treatments: Watershed restoration treatments within the cleared project area funded by NRCS through an EQIP Contract with Ash Valley Ranch		\$ 149,853.00		\$ 149,853.00
d.3 2011 PFW/USFWS Funded Treatments: Watershed restoration treatments within the cleared project area funded by USFWS through a Partners for Fish and Wildlife Contract with PRCD		\$ 20,000.00		\$ 20,000.00
d.4 20012-13 SNC Funded Treatments: Watershed restoration treatments within the cleared project area funded by Sierra Nevada Conservancy through the PRCD CSSRI Partnership			\$142,062.00	\$ 142,062.00
d.5 2011 HL Power CCPI 1 & 2 Treatments: Funds paid treatment contractor by HL Power for treatments within the cleared project area		\$ 292,883.59		\$ 292,883.59
d.6 2011 HL Power SNC Treatments: Funds paid treatment contractor by HL Power for treatments within the cleared project area		\$ 158,189.18		\$ 158,189.18
d.7 2014-5 BLM FundedTreatments: Watershed restoration treatments within the cleared project area currently put out for bid and funded by BLM		\$ 140,000.00		\$ 140,000.00
d.8 2014-5 DWR Restoration Treatments	\$ 400,000.00			\$ 400,000.00
d.9 2014-5 DWR Restoration Exclusion Fencing (BLM req.)	\$ 47,520.00			\$ 47,520.00
d.10 2014-5 HL Power DWR Treatments		\$ 672,000.00		\$ 672,000.00
d.11 Monitoring Equipment	\$ 9,080.00			\$ 9,080.00
(e) Grand Total (Sum rows (a) through (d) for each column)	\$ 544,600.00	\$ 1,536,833.77	\$ 142,062.00	\$ 2,223,495.77

*List sources of funding: *Use as much space as required*

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PROJECT B: Restoring Hydrological Function to South Ash Valley

Category (a): Direct Project Administration

The Pit Resource Conservation Business Manager will be responsible for bookkeeping and processing invoices, a total of \$4,500 is budget for the Business Manager (\$3,000 in Year 1 and \$1,500 in Year 2). The Project Director will be responsible for the overall project management that will be necessary to implement treatments and to conduct monitoring effort necessary to quantify the beneficial impacts of western juniper (*Juniperus occidentalis*) removal on restoration of hydrologic function and native rangeland plant communities. \$42,500 has been budgeted for project management. \$36,000 has been budgeted for project start-up, project layout, contractor solicitation, contractor contract preparation, and management of contractor performed treatment implementation during Year 1. \$6,500 per year has been budgeted during year 2 for oversight of and assistance with project monitoring and preparation and filing reports. The North Cal-Neva Resource Conservation and Development Council (NCNRC&D) will be responsible for overall grant administration which consists of negotiating contract with DWR, project sponsors, compiling monthly invoices, quarterly reporting, compliance and final invoices and reporting.

Category (b): Land Purchase/Easement

Not applicable

Category (c): Planning/Design/Engineering/Environmental Documentation

The project is ready to proceed and all required planning, design, engineering and environmental documentation is complete. \$1,500 is requested for grant application preparation.

Category (d): Construction/Implementation

Juniper Removal

Contractors will bid on the project based on their gaining ownership of the removed material as is typical in these types of projects. Contractors will bid on a subsidy price per acre since the value they will receive for the material will not be enough to cover their treatment costs. Based on recent projects we estimate that bids will come in at around \$400 per acre. If bids come in lower we will treat additional acres for a total of \$400,000 requested. We also intend to leverage the DWR investment and bring in additional partner contributions to restore more acres in the overall project area. A portion of the matching funds, \$273,761, comes from treatments undertaken on approximately 1,550 acres by the Pit Resource Conservation District's Cooperative Conservation Partnership Initiative (CCPI).

The chipped material will be hauled to HL Power, one of our principle partners, to be used as a renewable energy source. The cash payments that the contractor receives for the delivered material from HL Power, which is considered part of the contractor's compensation, will be counted as Cash Match. This has been an acceptable method of providing match for previous federally funded projects including NRCS, US Forest Service and Bureau of Land Management. 1,000 acres X 14 bone dry tons (bdt) of chips per acre = 14,000 bdt X \$48 per bdt = \$672,000. Additional projects contribute matching funds of \$591,072.77 from power generation.

Fencing

BLM requires that cattle are excluded from areas where juniper is removed for two years following treatment. A total of \$47,520 is requested for fence construction to meet this requirement.

Monitoring

We are requesting \$9,080 groundwater monitoring equipment to quantify rates of groundwater recharge in the newly treated area. We are requesting \$11,000 in Year 1 for installation of monitoring equipment, project monitoring, and reporting. We are requesting \$6,500 per year in Years 2 project monitoring and reporting.

PROJECT C: South Fork Irrigation District Infrastructure Upgrade

Table 7 – Project Budget				
Proposal Title: Upper Pit River Watershed Water Conservation and Drought				
Project Title: <u>South Fork Irrigation District Infrastructure Upgrade</u>				
Project serves a need of a DAC?: No				
Funding Match Waiver request?: No				
Category	(a)	(b)	(c)	(d)
	Requested Grant Amount	Cost Share: Non-State Fund Source* (Funding Match)	Cost Share: Other State Fund Source*	Total Cost
(a) Direct Project Administration				
(a.1) Grant Administration (NCRC&D)	\$ 16,800.00			\$ 16,800.00
(a.2) Personnel	\$ 9,725.00			\$ 9,725.00
(a.3) Contractual/personnel: project director	\$ 10,000.00			\$ 10,000.00
(c) Planning/Design/Engineering/Environmental Documentation				0.00
(c.1) CEQA & NEPA document		\$ 8,000.00		\$ 8,000.00
(c.2) Grant application preparation	\$ 1,000.00			\$ 1,000.00
(c.3) Engineering of construction materials	\$ 2,000.00	\$ 5,000.00		\$ 7,000.00
(c.4) Finalize pipeline removal / liner & pipe installation plans	\$ 5,000.00	\$ 10,000.00		\$ 15,000.00
(d) Construction/Implementation				0.00
(d.1) Purchase liner & Pipe/misc. materials	\$ 50,000.00	\$ 3,000.00		\$ 53,000.00
(d.2) Remove pipeline & install liner	\$ 84,200.00	\$ 15,000.00		\$ 99,200.00
(d.3) Remove pipe 7 install plastic pipe	\$ 54,300.00	\$ 15,000.00		\$ 69,300.00
(e) Grand Total (Sum rows (a) through (d) for each column)	\$ 233,025.00	\$ 56,000.00		\$ 289,025.00
<i>*List sources of funding: Use as much space as required:</i>				
National Resource Conservation Service -\$ 20,000 in-kind				
South Fork Irrigation District -\$ 8,000 Cash				
South Fork Irrigation District - \$28,000 in-kind				

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PROJECT C: South Fork Irrigation District Infrastructure Upgrade

Category (a): Direct Project Administration

The costs associated with the tasks under this category are based on personal experience of staff members working on previous grants and comparison of other organizations grant costs. These costs are reasonable and typical for costs associated with this level of administration. The North Cal-Neva Resource Conservation and Development Council (NCNRC&D) will be responsible for overall grant administration which consists of negotiating contract with DWR, project sponsors, compiling monthly invoices, quarterly reporting, compliance and final invoices and reporting.

Category (b): Land Purchase/Easement

Not applicable

Category (c): Planning/Design/Engineering/Environmental Documentation

The planning and design costs were developed with consultation between Central Modoc RCD and the National Resource Conservation Service. The NRCS will provide assistance with finalizing the planning and engineering for the proposed project. The costs developed are consistent with that agency's guidelines. The cost estimates for the other tasks under this category was developed by Central Modoc RCD staff. The estimate is based on previous staff experience in project implementation.

Category (d): Construction/Implementation

The cost of construction materials is based on contacting local vendors for a range in costs of estimated materials. Equipment and labor costs were based on local knowledge of people familiar with this type of work. This included local land owners in the Irrigation District, local equipment operators and NRCS guidelines for similar work.