

Tahoe Sierra IRWM Drought Preparedness Project

Attachment 6 – Schedule Summary Regional Water Conservation Program

The schedule (Attachment 6) for the Tahoe Sierra IRWM Regional Water Conservation Program (Project) is detailed, below, to indicate that all required Project deliverables have been identified and are justifiable and obtainable within the proposed Budget and Schedule, consistent with the grant guidelines.

Consistency with Workplan and Budget

The tasks and deliverables detailed in the proposed Project Work Plan (Attachment 4) match the tasks and associated deliverables listed in the Project budget (Attachment 5) and Project Schedule (Attachment 6). The schedule for this Project is based on past experience implementing water conservation best management practices (BMP).

Project Status and Feasibility

South Tahoe Public Utility District has been the lead agency on the implementation of regional water conservation BMP's for several years. As the lead, STPUD developed a water conservation program that could be replicated region-wide and designed the appropriate materials to implement the program. Tahoe Sierra IRWM water agencies interested in implementing water conservation practices within their service areas can utilize the materials by changing the appropriate agency information. California Environmental Quality Act (CEQA) documentation in the form of a Notice of Exemption has been filed for this project with El Dorado County. There is no permitting necessary for the project as all implementation is conducted on residential and commercial property. Therefore, the planning and design stage of this project is complete.

Implementation dates for turf buy-back program and the commercial and residential irrigation water saving devices are based on the irrigation season, which is typically from April through October. Implementation dates for the washing machine and toilet rebate programs are on-going as these programs can be implemented at any time.

The BMP projects incorporated into this program are among the highest of water saving BMP's and also the most popular in the water conservation efforts. Turf buy back program deliverables are based on a cost of \$1.50 per square foot of turf conversion and there is currently a waiting list for program participants as funding for the program has expired. The same is true for the other water conservation efforts and the proposed schedule is well within a justified range to meet the deliverables.

STPUD currently employs one full-time water conservation coordinator, and two part time staff for implementation of water conservation practices. With these resources, program oversight, monitoring, reporting and outreach for this project is reasonable and obtainable within the time frame established by the schedule.

Attachment 6: Schedule

Project Name: Regional Water Conservation Program (STPUD, TCPUD, NTPUD)

Tasks	Start Date	End Date	Deliverable/Milestone
A. Direct Project Administration	10/16/14	3/1/16	
<i>A.1 Administration and Reporting (Including lead agency responsibilities for grant agreement with DWR and implementing regional water conservation program)</i>	10/16/14	3/1/16	STPUD/DWR grant agreement, grant agreement with sub-recipient partners; quarterly invoices, quarterly progress reports, final Project report and final invoice
A.1 Milestone	10/16/14		Grant Award date
A.1 Milestone	3/1/16		Final Project Reports & Invoice
<i>A.2 Labor Compliance Monitoring</i>	5/1/15	10/1/15	certified payroll documentation from partners implementing construction projects
B. Land Purchase/Easement	--	--	--
C. Planning/Design/Engineering/Environmental Documentation	Complete	Complete	
<i>C.1 Planning/Design</i>	<i>Complete</i>	<i>Complete</i>	Program description; participant applications; outreach brochures and information
C.1 Milestone	10/16/14		Design documentation submitted
<i>C.2 Environmental Documentation</i>	<i>Complete</i>	<i>Complete</i>	CEQA Notice of Exemption (NOE)
C.2 Milestone	10/16/14		CEQA NOE submitted
D. Construction/Implementation	10/1/16	12/31/15	
<i>D.1 Turf removal (Residential and Commercial)</i>	4/1/15	10/1/15	Completed applications; pre- and post monitoring; data reports of water savings
<i>D.2 Residential Incentives for Irrigation Water Savings Devices</i>	4/1/15	10/1/15	Completed participant applications; data reports of water savings
<i>D.3 Commercial Incentives for Irrigation Water Savings Devices</i>	4/1/15	10/1/15	Completed participant applications; data reports of water savings
<i>D.4 Residential Water Saving Appliance Rebates</i>	10/16/14	12/31/15	Completed participant applications; data reports of water savings
<i>D.5 Commercial Water Savings Appliance Rebates</i>	10/16/14	12/31/15	Completed participant applications; data reports of water savings
E. Environmental Compliance/Mitigation/Enhancement			<i>See Task C above</i>
F. Construction Administration	10/1/14	3/1/16	Data summary of water savings results
G. Other Costs	--	--	--
H. Construction/Implementation Contingency	--	--	--

Attachment 6 – Schedule Summary

Tahoe City Main Emergency Water Supply Project

The schedule (Attachment 6) for the Tahoe City Main Emergency Water Supply Project (Project) is detailed, below, to indicate that all required Project deliverables have been identified and are justifiable and obtainable within the proposed Budget and Schedule, consistent with the grant guidelines.

Consistency with Workplan and Budget

The tasks and deliverables detailed in the proposed Project Work Plan (Attachment 4) match the tasks and associated deliverables listed in the Project budget (Attachment 5) and Project Schedule (Attachment 6). The schedule for this Project is based on past experience constructing similar improvements.

Project Status and Feasibility

On March 21, 2014, the Tahoe City Public Utility District (TCPUD) Board approved a professional services agreement with Auerbach Engineering Corporation (Auerbach) of Tahoe City, California for planning and design of the Project. Auerbach is a local engineering firm with an excellent working history with the TCPUD and a strong understanding of the local permitting requirements, capable of delivering the Project in an expedited, efficient manner. Auerbach is currently under contract for preliminary design through completion of bid documents. Auerbach's contract schedule shows delivery of project bid documents in early 2015 for summer 2015 construction.

Unique regulatory and permitting requirements in the Tahoe basin prohibit earthwork and grading between October 15 and May 1, annually. As such, Auerbach is currently focused on completing design-related field work, i.e. environmental studies, surveying and field investigation, as required for design.

Permitting and environmental approvals for the Project are standard to the type of work that TCPUD completes on an annual basis, as part of the District's water and sewer capital improvement program. Following the Project 90% design submittal, which is on schedule for September 2014 completion, permits will be completed as follows: a Placer County encroachment permit for work within the County right-of-way (ROW), a Caltrans encroachment permit for work within the State ROW and a Tahoe Regional Planning Agency (TRPA) permit.

Similarly, following the 90% design submittal, a formal determination will be made regarding the California Environmental Quality Act (CEQA) documentation requirement; based on past experience, the Project is anticipated to be exempt from CEQA. TCPUD will be responsible completing and filing the CEQA documentation with Placer County.

The TCPUD has extensive experience permitting and building water infrastructure projects and administering grant-funded projects. The Project is currently on schedule to complete all required environmental permits and regulatory requirements in advance of summer 2015 construction.

Attachment 6: Schedule

Project Name: Tahoe City PUD Main Emergency Water Supply Project

Tasks	Start Date	End Date	Deliverable/Outcome
A. Direct Project Administration	10/16/14	3/1/16	
<i>A.1 Administration and Reporting</i>	10/16/14	3/1/16	STPUD grant agreement, quarterly invoices, quarterly progress reports, final Project report
<i>A.1 Milestone</i>	10/16/14		<i>Grant Award date</i>
<i>A.1 Milestone</i>	3/1/16		<i>Final Project Report & Invoice</i>
<i>A.2 Labor Compliance Monitoring</i>	5/1/15	10/1/15	certified payroll documentation
B. Land Purchase/Easement	--	--	--
C. Planning/Design/Engineering/Environmental Documentation	3/21/14	1/31/15	
<i>C.1 Planning/Design</i>	3/21/14	1/31/15	design memorandum, base map, 50%, 90%, 100% design packages, bid documents
<i>C.1 Milestone</i>	8/31/14		<i>Design Memorandum</i>
<i>C.1 Milestone</i>	1/31/15		<i>Construction Bid Package</i>
<i>C.2 Environmental Documentation</i>	9/22/14	11/28/14	CEQA Notice of Determination (NOD)
<i>C.2 Milestone</i>	11/28/14		<i>CEQA NOD</i>
<i>C.3 Permitting</i>	9/22/14	12/31/14	Placer County Encroachment and Caltrans Encroachment Permits, TRPA Permit
<i>C.3 Milestone</i>	12/31/14		<i>Placer County Permit</i>
<i>C.3 Milestone</i>	12/31/14		<i>Caltrans Permit</i>
<i>C.3 Milestone</i>	12/31/14		<i>TRPA Permit</i>
D. Construction/Implementation	2/2/15	12/31/15	
<i>D.1 Bidding/Contracting</i>	2/2/15	4/1/15	bid documents, Notice of Award
<i>D.1 Milestone</i>	2/2/15		<i>Invitation to Bid</i>
<i>D.1 Milestone</i>	3/20/15		<i>Notice of Award</i>
<i>D.2 Construction</i>	5/1/15	12/31/15	As-built plans, Notice of Completion
<i>D.2 Milestone</i>	10/1/15		<i>Construction Completion</i>
<i>D.2 Milestone</i>	12/31/15		<i>Notice of Completion</i>
<i>D.2 Milestone</i>	12/31/15		<i>As-Built Plans</i>
E. Environmental Compliance/Mitigation/Enhancement	---	---	See Task C above
F. Construction Administration	5/1/15	11/1/15	Inspection and testing records
G. Other Costs	9/22/14	12/31/14	(C.3 permit deliverables)
H. Construction/Implementation Contingency	5/1/15	12/31/15	(D.2 deliverables)

Attachment 6 – Schedule Summary
Squaw Valley Public Service District and Squaw Valley Mutual Water Company
Interconnection Facility Project

The schedule (Attachment 6) for the SVPSD and the SVMWC Interconnection Facility Project is detailed, below, to indicate that all required Project deliverables have been identified and are justifiable and obtainable within the proposed Budget and Schedule, consistent with the grant guidelines.

Consistency with Workplan and Budget

The tasks and deliverables detailed in the proposed Project Work Plan (Attachment 4) match the tasks and associated deliverables listed in the Project budget (Attachment 5) and Project Schedule (Attachment 6). The schedule for this Project is based on engineer estimates during preliminary design of the project.

Project Status and Feasibility

The establishment of an emergency intertie between SVPSD and SVMWC has been a subject between the two utilities for decades. With the aging of the Mutual Water Co. wells and significant development on the District's doorstep the District decided in 2012 to begin the project with a site selection analysis. The subsequent drought in California brought the project forward on both utilities' capital improvement list.

The District was successful in landing a planning grant in 2013 and entered into contract with Shaw Engineering to design the project in February 2014. The plans are presently 75% complete and will be finalized in a few weeks. The current schedule is the result of the design work by Shaw.

The District has researched CEQA requirements and believes the project is eligible for a categorical exemption. The District will act as lead agency for the project and file the exemption at the same hearing that the Tahoe Sierra IRWM plan will be adopted so the schedule as shown will be sufficient to meet the environmental evaluation.

Construction implementation will begin with plan submittal to Placer County for an encroachment permit. This is a well vetted process that will culminate with permit approval and the process has already started with a permit cost estimate from Placer County. The District will utilize the public bidding process, which we have competent expertise in executing and will award the project to the lowest cost competent contractor. The District will observe all phases of construction and will utilize the services of sub consultants for materials testing and electrical inspections through startup of the completed pumping station. Project close out will culminate with the filing of a Notice of Completion with the Placer County Recorder's office.

The final piece of the project will be to negotiate an operating agreement between the SVPSD and the SVMWC outlining emergency response procedures, operating parameters, and billing protocol for the facility.

The schedule has been vetted by both utilities and Shaw Engineering firm.

Attachment 6: Schedule

Project Name: Squaw Valley Public Service District and Squaw Valley Mutual Water Company Interconnection Facility Project

Tasks	Start Date	End Date	Deliverable/Outcome
A. Direct Project Administration	10/16/14	3/1/16	
<i>A.1 Administration and Reporting</i>	10/16/14	3/1/16	STPUD grant agreement, quarterly invoices, quarterly progress reports, final Project report
<i>A.1 Milestone</i>	10/16/14		<i>Grant Award date</i>
<i>A.1 Milestone</i>	3/1/16		<i>Final Project Report & Invoice</i>
<i>A.2 Labor Compliance Monitoring</i>	10/16/14	10/15/15	certified payroll documentation
B. Land Purchase/Easement	10/1/2014	3/1/2014	Recorded Easement
C. Planning/Design/Engineering/Environmental Documentation	6/1/14	8/31/14	
<i>C.1 Planning/Design</i>	6/1/14	8/31/14	design memorandum, base map, 50%, 90%, 100% design packages, bid documents
<i>C.1 Milestone</i>	8/31/14		<i>Design Memorandum</i>
<i>C.1 Milestone</i>	1/31/15		<i>Construction Bid Package</i>
<i>C.2 Environmental Documentation</i>	8/1/14	10/1/14	CEQA Notice of Determination (NOD)
<i>C.2 Milestone</i>	10/1/14		<i>CEQA NOD</i>
<i>C.3 Permitting</i>	10/1/14	1/31/14	Placer County Encroachment Permit
<i>C.3 Milestone</i>	1/31/14		<i>Placer County Permit</i>
D. Construction/Implementation	1/1/15	10/31/15	
<i>D.1 Bidding/Contracting</i>	1/1/15	2/28/15	bid documents, Notice of Award
<i>D.1 Milestone</i>	1/1/15		<i>Invitation to Bid</i>
<i>D.1 Milestone</i>	3/1/15		<i>Notice of Award</i>
<i>D.2 Construction</i>	4/1/15	10/31/15	As-built plans, Notice of Completion
<i>D.2 Milestone</i>	9/30/15		<i>Construction Completion</i>
<i>D.2 Milestone</i>	10/31/15		<i>Notice of Completion</i>
<i>D.2 Milestone</i>	12/31/15		<i>As-Built Plans</i>
E. Environmental Compliance/Mitigation/Enhancement	---	---	See Task C above
F. Construction Administration	1/1/15	11/1/15	Inspection and testing records
G. Other Costs/Operating Agreement	6/1/15	12/31/14	Executed Operating Agreement
H. Construction/Implementation Contingency	4/1/15	10/31/15	(D.2 deliverables)

Attachment 6 – Schedule Summary Lukins Waterline Replacement Project

The schedule (Attachment 6) for the Lukins Waterline Replacement Project (Project) is detailed, below, to indicate that all required Project deliverables have been identified and are justifiable and obtainable within the proposed Budget and Schedule, consistent with the grant guidelines.

Consistency with Workplan and Budget

The tasks and deliverables detailed in the proposed Project Work Plan (Attachment 4) match the tasks and associated deliverables listed in the Project budget (Attachment 5) and Project Schedule (Attachment 6). The schedule for this Project is based on past experience constructing similar waterline replacement projects in the Tahoe Basin.

Project Status and Feasibility

In 2009, Lukins Brothers Water Company conducted a preliminary draft design report for the 2000 linear foot Waterline Replacement Project, Phase 2 identifying the tasks and timeline necessary for completion of the project. A final design report was contracted in February 2014, is at 90% and will be completed by October 2014. The final design schedule shows delivery of project bid documents in early 2015 for summer 2015 construction.

Unique regulatory and permitting requirements in the Tahoe basin prohibit earthwork and grading between October 15 and May 1, annually, so construction is scheduled to begin on May 1, 2015.

Permitting and environmental approvals for the Project are standard to the type of work that Lukins completes as part of its water capital improvement program. Following the Project 90% design submittal, which is on schedule for September 2014 completion, permits will be completed as follows: a City of South Lake Tahoe encroachment permit for work within the City right-of-way (ROW), and a Tahoe Regional Planning Agency (TRPA) permit.

Similarly, following the 90% design submittal, a formal determination will be made regarding the California Environmental Quality Act (CEQA) documentation requirement; based on past experience, the Project is anticipated to be exempt from CEQA. Lukins will be responsible for completing and filing the CEQA documentation with El Dorado County.

The Project is currently on schedule to complete all required environmental permits and regulatory requirements, as well as bid documents, in advance of summer 2015 construction.

Attachment 6: Schedule

Project Name: Lukins Waterline Replacement Project, Phase 2

Tasks	Start Date	End Date	Deliverable/Milestones
A. Direct Project Administration	10/16/14	3/1/16	
<i>A.1 Administration and Reporting</i>	10/16/14	3/1/16	Grant agreement with STPUD, quarterly invoices, quarterly progress reports, final Project report
<i>A.1 Milestone</i>	10/16/14		<i>Grant Award date</i>
<i>A.1 Milestone</i>	3/1/16		<i>Final Project Report & Invoice</i>
<i>A.2 Labor Compliance Monitoring</i>	5/1/15	10/1/15	certified payroll documentation
B. Land Purchase/Easement	--	--	--
C. Planning/Design/Engineering/Environmental Documentation	3/21/14	1/31/15	
<i>C.1 Planning/Design</i>	3/21/14	10/1/14	design memorandum, base map, 50%, 90%, 100% design packages, bid documents
<i>C.1 Milestone</i>	7/31/14		<i>Design Memorandum</i>
<i>C.1 Milestone</i>	2/30/15		<i>Construction Bid Package</i>
<i>C.2 Environmental Documentation</i>	8/1/14	11/28/14	CEQA Notice of Determination (NOD)
<i>C.2 Milestone</i>	11/28/14		<i>CEQA NOD</i>
<i>C.3 Permitting</i>	9/22/14	2/30/15	City of South Lake Tahoe Encroachment Permit, TRPA Permit
<i>C.3 Milestone</i>	2/30/15		<i>City of South Lake Tahoe Permit</i>
<i>C.3 Milestone</i>	2/30/15		<i>TRPA Permit</i>
D. Construction/Implementation	5/1/15	12/31/15	
<i>D.1 Bidding/Contracting</i>	3/1/15	4/30/15	bid documents, Notice of Award
<i>D.1 Milestone</i>	3/1/15		<i>Invitation to Bid</i>
<i>D.1 Milestone</i>	4/30/15		<i>Notice of Award</i>
<i>D.2 Construction</i>	5/1/15	12/31/15	As-built plans, Notice of Completion
<i>D.2 Milestone</i>	10/1/15		<i>Construction Completion</i>
<i>D.2 Milestone</i>	12/31/15		<i>Notice of Completion</i>
<i>D.2 Milestone</i>	12/31/15		<i>As-Built Plans</i>
E. Environmental Compliance/Mitigation/Enhancement	--	--	See Task C above
F. Construction Administration	5/1/15	11/1/15	Inspections report
G. Other Costs	9/22/14	12/31/14	See C.3 above for permits
H. Construction/Implementation Contingency	5/1/15	12/31/15	(D.2 deliverables)

**Tahoe Sierra IRWM Drought Preparedness Project
Attachment 6: Proposal Schedule**

	June 2014	Jul	Aug	Sep	Oct	Nov	Dec	Jan. 2015	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan 2016	Feb	March	
Direct Grant Administration																							
Regional Water Conservation Program																							
Ongoing Implementation																							
Final reporting																							
SVPSD and SVMWC Intertie Project																							
Bid Documents/CEQA																							
Construction																							
Final reporting																							
Lukins Waterline Replacement Project																							
Bid Documents/CEQA																							
Construction																							
Final reporting																							
TCPUD Emergency Water Supply Project																							
Bid Documents/CEQA																							
Construction																							
Final reporting																							

Direct Grant Administration

Regional Water Conservation Program

Ongoing Implementation

Final reporting

SVPSD and SVMWC Intertie Project

Bid Documents/CEQA

Construction

Final reporting

Lukins Waterline Replacement Project

Bid Documents/CEQA

Construction

Final reporting

TCPUD Emergency Water Supply Project

Bid Documents/CEQA

Construction

Final reporting