



INTEGRATED REGIONAL WATER MANAGEMENT PROGRAM

Executive Summary

The proposed work of the Inyo-Mono Planning Grant application was intended to enhance and update the Inyo-Mono IRWM Plan through focused planning studies and additions to the document. This work was to include the participation of the Regional Water Management Group and the Administrative Committee, outreach to new stakeholders (particularly disadvantaged communities), and liaisons with other planning entities. These results were achieved. The three planning studies were completed successfully, and the IRWM Plan was updated to DWR Plan Review Standards (and successfully passed the review process). Further updates were made after the review process. In addition, because of our careful use of funds, we were able to take on other efforts within the Planning Grant that had not originally been included in the grant agreement, such as a Sierra-wide disadvantaged communities workshop, a meadows mapping project, and a comprehensive Sustainable Groundwater Management Act information collection effort. Thus, all of the work of the original grant agreement was completed successfully as well as a few additional tasks that were taken on towards the end of the grant period.

Cost and Disposition of Funds

Summary table of all invoices

See attached spreadsheet. Note that the amounts shown in this table reflect the actual grant share and cost share amounts expended rather than the amounts as calculated by the invoice form.

Final Budget

Line Item	Resource Category	Cost Share/Match	DWR Grant Funding	Total
1	Personnel Services Budget	\$63,500.00	\$278,889.00	\$342,389.00
1	Personnel Services Actual (as calculated by DWR invoice)	\$63,499.24	\$278,879.51	\$342,378.75
2	Operating Expenses <\$5,000 Budget	\$ 1,137.00	\$ 48,496.00	\$ 49,633.00
2	Operating Expenses <\$5,000 Actual (as calculated by DWR invoice)	\$ 1,136.51	\$ 40,966.56	\$ 42,103.07
3	Professional & Consultant Services Budget	\$99,879.00	\$152,885.00	\$252,764.00
3	Professional & Consultant	\$99,879.00	\$152,735.68	\$252,614.68

Line Item	Resource Category	Cost Share/Match	DWR Grant Funding	Total
	Services Actual (as calculated by DWR invoice)			
Total	Budget	\$164,516.00	\$480,270.00	\$644,786.00
Total	Actual	\$164,514.75	\$472,581.75	\$637,096.50

Additional Project Information

Schedule

See attached spreadsheet

Problems & resolution

There were two main problems that were encountered during the grant period.

The first problem had to do with the timing of the Plan Review Process in relation to our planned updates to the IRWM Plan. We had intended to update the Plan by the end of the grant period, but the timing of the 2015 Implementation Grant round and the attendant Plan Review Process, together with reporting requirements for the Round 1 Implementation grant, necessitated that we needed to update our Plan sooner. We updated our plan to meet the Plan Review standards but did not update as fully at that time as we had intended through the Planning Grant 2. Since we went through the Plan Review Process, we have taken more time to update parts of the Plan that the RWMG felt needed updating. Now, at the end of the grant period, we have a series of updates that need to be approved and added to the IRWM Plan. The resolution to the problem was to simply change gears and focus on the priority in front of us, which was to have our Plan approved through the Plan Review Process. We submitted the Plan to DWR in October 2014 for review, and it was given final approval by DWR on December 19, 2014, with no public comment. The Plan had been approved and adopted by the Inyo-Mono RWMG on October 22, 2014.

The second problem was that we could not spend our grant money fast enough to finish the grant within the original allocated time. As has been the case before, we try to be frugal in our spending while still achieving the desired outcome. As a result, we spend money more slowly than planned. There were two ways to resolve this problem. One way was to extend the grant period so that we had more time to spend down the funds. Another way was to add some tasks within the work plan to use some of the funding (the DAC workshop, the meadows mapping, and the groundwater information gathering related to SGMA). These two solutions allowed for the full amount to be spent by the end of the extended grant period.

Factors affecting project cost

No factors affected the overall project cost, except, again, our ability to spend down the overall grant amount in the time allotted. We did make several amendments to the budget to modify expenses to reflect reality as we became more aware of conditions on the ground throughout the grant period. We also made internal adjustments to the budget to reallocate hours and funds among Program Office staff and tasks.

The largest factor to impact the project budget was that the U.S. Forest Service planning study (Oak Creek Stream Stabilization Study) came in well under budget (about \$75,000), and we had to reallocate that money to other tasks within the Planning Grant. While there was no shortage of work to be done, it was a matter of spending that money in the time allotted. The “extra” funding was both a positive and negative factor.

There was no deviation from the overall project cost estimate.

Project benefits

We met the anticipated benefits to disadvantaged communities (DACs) during the project period. Two of the three planning studies took place in DACs and directly involved members of DACs (including a tribe). In addition, we worked to continue outreach in DACs in the region and engagement of DACs in the IRWM planning process through participation in RWMG and Administrative Committee meetings, involvement in the IRWM Plan updating process, and inclusion in discussions of projects and funding opportunities. In our case, the involvement of DACs included tribes.

No other anticipated benefits were expressly stated at the time of application. However, several other benefits were achieved through this Planning Grant project: (1) the IRWM Plan was updated to IRWM Plan Standards and according to the priorities of the Inyo-Mono RWMG; (2) the RWMG and Admin. Committee continued to meet and build up on the IRWM Program; (3) considerable time was spent thinking about and planning for the future financial sustainability of our IRWM Program; (4) we continued to include more water-interested stakeholders in the planning process, including DAC representatives; and (5) by the end of the project, the RWMG was committed to maintaining the viability of the Program well into the future.

Reports and/or Products

The following deliverables were produced during the grant period:

Name of deliverable/ product	Date of deliverable/ product delivery	What deliverable/product contains	Task
January 23, 2013, RWMG Meeting notes	1/7/2014	Notes taken during the Regional Water Management Group	1

Name of deliverable/ product	Date of deliverable/ product delivery	What deliverable/product contains	Task
		meeting	
May 22, 2013, RWMG Meeting notes	1/7/2014	Notes taken during the Regional Water Management Group meeting	1
July 24, 2013, RWMG Meeting notes	1/7/2014	Notes taken during the Regional Water Management Group meeting	1
September 25, 2013, RWMG Meeting notes	1/7/2014	Notes taken during the Regional Water Management Group meeting	1
January 16, 2013, Administrative Committee Meeting notes	1/7/2014	Notes taken during the Administrative Committee meeting	1
March 13, 2013, Admin. Committee Meeting notes	1/7/2014	Notes taken during the Administrative Committee meeting	1
July 15, 2013, Admin. Committee Meeting notes	1/7/2014	Notes taken during the Administrative Committee meeting	1
September 17, 2013, Admin. Committee Meeting notes	1/7/2014	Notes taken during the Administrative Committee meeting	1
Inventorying Water-Related Greenhouse Gases – Methodology and Overview for the Inyo-Mono Region	1/7/2014	This is an analysis of how the greenhouse gas emissions analysis methodology used for the larger water agencies in the Inyo-Mono region might be scaled down for use with the smaller water agencies and individual well owners in the region.	4
December 11, 2013, RWMG Meeting notes	3/6/2014	Notes taken during the Regional Water Management Group meeting	1
December 2013 IRWM Program Newsletter	3/6/2014	This was the first IRWM Program newsletter put out by the Program Office and included updates on the work of the Planning Grant as well as a year-end message by the Program Director	1
Public comment on Round 2	3/6/2014	A letter responding to the recommendation that the Inyo-	1

Name of deliverable/ product	Date of deliverable/ product delivery	What deliverable/product contains	Task
Implementation draft award recommendations		Mono IRWM region receive no funding for the Round 2 Implementation grant. These comments included references to specific parts of the grant evaluation.	
Public comment on draft Plan Review Process/Prop. 84 Guidelines Addendum	3/6/2014	Comments responding to the proposed Plan Review Process and Prop. 84 Guidelines Addendum	1
IRWM Plan update table	3/6/2014	Excel workbook to help track the progress, status, and accountability of Plan updates as we strive to meet Plan Standards for the Plan Review Process	6
January 22, 2014, RWMG Meeting notes	5/5/2014	Notes taken during the Regional Water Management Group meeting	1
January 14, 2014, Admin. Committee meeting notes	5/5/2014	Notes taken during the Administrative Committee meeting	1
February 24, 2014, Admin. Committee meeting notes	5/5/2014	Notes taken during the Administrative Committee meeting	1
Online project upload form	5/5/2014	Revised project upload form on the Inyo-Mono website was made available to all users with a password.	3
Grant opportunities spreadsheet	5/5/2014	A master grant opportunities spreadsheet specific to the Inyo-Mono region was developed and posted to the Inyo-Mono website. This spreadsheet shows funding opportunities in addition to those available through DWR's IRWM Program.	5
March 19, 2014, RWMG Meeting notes	5/19/2014	Notes taken during the Regional Water Management Group meeting	1
March 2014 IRWM Program Newsletter	5/19/2014	Second IRWM Program newsletter to be distributed. Provides updates on the work of the Planning Grant.	1

Name of deliverable/ product	Date of deliverable/ product delivery	What deliverable/product contains	Task
May 2014 IRWM Program Newsletter	8/7/2014	Third IRWM Program newsletter to be circulated among the RWMG. Provides updates on the work of the Planning Grant.	1
June 20, 2014, Admin. Committee meeting notes	11/27/2014	Notes taken during the Administrative Committee meeting	1
Watershed Restoration Action Plan for Oak Creek Watershed	11/27/2014	Work performed as an early step in the restoration of Oak Creek (before this planning study); it identified the Oak Creek Stream Stabilization Study as Essential Project #1.	2
Suggested Study Designs for Evaluation of Species and Techniques for Restoration of California Black Oak Plant Communities on the Oak Creek Mudflow, Independence, California	11/27/2014	Another report prepared before the current planning study (in January 2013). It investigated the feasibility of establishing oaks and other native species on the Oak Creek mudflow.	2
July 23, 2014, RWMG Meeting notes	12/17/2014	Notes taken during the Regional Water Management Group meeting	1
October 8, 2014, Admin. Committee meeting notes	1/30/2015	Notes taken during the Administrative Committee meeting	1
October 22, 2014, RWMG Meeting notes	1/30/2015	Notes taken during the Regional Water Management Group meeting	1
October 22, 2014, Adopted Inyo-Mono IRWM Plan	10/25/2014	RWMG-approved and adopted IRWM Plan to meet 2012 Plan Standards	1
January 14, 2015, Admin. Committee meeting notes	4/24/2015	Notes taken during the Administrative Committee meeting	1
January 28, 2015, RWMG Meeting notes	4/24/2015	Notes taken during the Regional Water Management Group meeting	1

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Climate Change Analysis in the Eastern Sierra	4/24/2015	Invited presentation given to the Bristlecone Chapter of the California Native Plant Society at its January 2015 meeting	4
Hydrologic Condition Assessment of the Oak Creek Watershed	4/24/2015	Literature review for the Oak Creek Watershed including meteorology, surface water features, drainage basin characteristics, hydrologic condition assessment, and backup documentation supporting each section.	2
Geophysical Assessment of the West Walker River through Antelope Valley	4/24/2015	Final report from contractor for West Walker River Restoration Planning Study, with recommendations	2
Request for Proposals: Town of Mammoth Lakes Stormwater Management Plan	4/24/2015	A request for proposals for a contractor to complete the Town's stormwater management plan to be advertised	2
April 15, 2015, Admin. Committee meeting notes	9/4/2015	Notes taken during the Administrative Committee meeting	1
April 22, 2015, RWMG Meeting notes	9/4/2015	Notes taken during the Regional Water Management Group meeting	1
May 27, 2015, RWMG meeting notes	2/28/2016	Notes taken during the Regional Water Management Group meeting	1
Working schedule for Town of Mammoth Lakes Stormwater Management Plan project	2/28/2016	Schedule developed in conjunction with Town of Mammoth Lakes and consulting engineers to keep project on track	2
Stream Stability Assessment and Restoration Recommendations Report for Oak Creek Watershed	2/28/2016	Final assessment and recommendations report from Oak Creek stream stabilization technical planning study	2
Perspectives and Guidance for Climate Change Analysis	2/28/2016	Final report of DWR's Climate Change Technical Advisory Group providing recommendations on	4

Name of deliverable/ product	Date of deliverable/ product delivery	What deliverable/product contains	Task
		climate models and applications analysis for regional and local water planning	
Town of Mammoth Lakes Stormwater Master Plan	7/2/2015	Final stormwater planning document from TOML's planning study	2
October 14, 2015, Admin. Committee meeting notes	7/2/2015	Notes taken during the Administrative Committee meeting	1
October 28, 2015, RWMG Meeting notes	7/2/2015	Notes taken during the Regional Water Management Group meeting	1
January 27, 2016, Admin. Committee meeting notes	10/25/2016	Notes taken during the Administrative Committee meeting	1
January 27, 2016, RWMG Meeting notes	10/25/2016	Notes taken during the Regional Water Management Group meeting	1
Post-Planning Grant Work	With this report	A work plan for the money raised from the RWMG for approximately the remainder of 2016	1
April 27, 2016, RWMG Meeting notes	With this report	Notes taken during the Regional Water Management Group meeting	1
Integrated Regional Water Management Success of IRWM Survey – April 2016	With this report	A survey designed by Lynn Rodriguez (of Watersheds Coalition of Ventura County) and Holly Alpert to be administered to all 48 regions to document how well IRWM is working for them so far	1
Disadvantaged Communities Workshop Agenda	With this report	An agenda for the one-day Sierra-wide and Lahontan funding region DAC workshop held in South Lake Tahoe May 20, 2016	1
Updates to IRWM Plan – Climate Change chapter	With this report	Updates to the Climate Change Impacts, Measuring Impacts of Climate Change for the Inyo-Mono Region, and Conclusion sections of the climate change chapter of the IRWM Plan	6
Water-Energy Nexus section for the climate	With this report	A new section to be added to the Plan exploring the water-energy	6

Name of deliverable/ product	Date of deliverable/ product delivery	What deliverable/product contains	Task
change chapter of the IRWM Plan		nexus for the Inyo-Mono region and presenting the results of a region- wide water-related greenhouse gas emissions estimate	
Draft USFS R5 Meadow Mapping Procedure – March 2016	With this report	Methodology used to delineate and remotely classify about 750 meadows in the Inyo National Forest	3
Inyo-Mono IRWM Access Database	With this report	A Microsoft Access database to house the various types of information and data collected by the Inyo-Mono IRWM Program	3
Inyo-Mono IRWM Finance Plan	With this report	A plan for securing the future financial sustainability of the Inyo- Mono IRWM Program	5
Preparing for long- term regional and local groundwater management planning	With this report	A report from the work done for Task 7 on gathering information for the 65+ groundwater basins in the Inyo-Mono region, focusing specifically on the medium-priority Indian Wells Valley and Owens Valley basins. This report will become part of the Inyo-Mono IRWM Plan.	7
Updates to IRWM Plan – Region Description chapter	With this report	Updates to the Streamflow Averages and Extremes, and Droughts and Floods sections of the Region Description Plan chapter.	6