

Merced Integrated Regional Water Management Merced Region Grant Proposal

Attachment 3: Work Plan



Attachment 3 consists of the following item:

✓ **Work Plan**

Brief summaries of the anticipated tasks, categorized into four budget categories: a) Direct Project Administration; b) Land Purchase/Easement; c) Planning/Design/Engineering/Environmental Documentation; and d) Construction/Implementation. The Work Plan also identifies the anticipated deliverables for each task and current status of each project. Anticipated deliverables for each task and the current status of the project, including permitting activities, are also described below to indicate the current stage of each task. The following project Work Plans are presented in this proposal:

- Atwater-McSwain Regulating/Recharge Basin Project
- UC Merced Surface Water Augmentation Project



Atwater-McSwain Regulating/Recharge Basin Project

This project will convert an existing unused excavated basin into a regulating/recharge basin that will capture local stormwater runoff and terminal operational discharges from the MID distribution system that would otherwise leave the system through drains that do not terminate in the Merced River, and either recharge these flows to the underlying groundwater basin or recirculate them back into the distribution system, providing additional supply to local irrigators. The reduced operational discharges and ability to recirculate the captured water for irrigation use would reduce the amount of water that would need to be released from Lake McClure, and promote in-lieu recharge by providing the recirculated water to MID customers in-lieu of groundwater pumping for irrigation. The captured water that will be percolated into the groundwater basin will be banked for extraction and use in dry periods. In general, the project captures and disseminates flood flows and tail water discharges through recharge and redistribution in wet and normal years, allowing for the recovery and use of banked waters in dry years. Facilities required include an excavated basin, inlet and outlet gates, and associated measurement and control devices. Existing groundwater wells will be utilized to extract banked groundwater.

The bulleted list below provides the work summary for this project. To date, only the conceptual project design has been completed. The remaining tasks indicated below will be completed per the schedule shown in Attachment 5.

Budget Category (a) Direct Project Administration

Task 1: Project Administration

District Engineer will manage project schedule and deadlines and will complete project coordination with District staff and County.

- Deliverables:
 - Timelines
 - Excel worksheet of MID staff time spent on project.
 - Invoices

Task 2: Labor Compliance Program

The District has a Labor Compliance Program (LCP) in place and is not anticipating any additional charges for reimbursement under this grant.

- Deliverables:
 - Copy of existing Labor Compliance Program

Task 3: Reporting

District staff will prepare progress reports detailing work completed during the reporting period for inclusion in a progress report to DWR. The District will prepare draft and final Project Completion Report for inclusion in a progress report to DWR.

- Deliverables:
 - Quarterly reports and Draft and Final Project Completion Reports.

Budget Category (b) Land Purchase/Easement

Task 4: Land Purchase/Easement

Once approved for funding, County of Merced grant a permanent easement for the property to MID at no cost. No charges for reimbursement under this grant.

- Deliverables:
 - Easement of Title on property



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

Task 5: Planning– Not Applicable

Task 6: CEQA Documentation

District will prepare and adopt an Initial Study/Mitigated Negative Declaration (IS/MND),

- Deliverables:
 - Notice of Preparation
 - Adopted IS/MND
 - Notice of Determination

Task 7: Permitting

District staff will acquire encroachment permit and coverage under the State's General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities.

- Deliverables:
 - Final County Encroachment Permit
 - Final Storm Water Pollution Prevention Plan (SWPPP)

Task 8: Final Design

Design activities are outlined below:

- 8.1 Site survey - Perform topographic survey of the project site.
 - 8.2 Final Design and Bid Documents - Complete design of the recharge basin and associated appurtenances. Compile construction plans, specifications, and bid documents.
- Deliverables:
 - Final bid package, including plans and specifications.
 - Topographic map

Task 9: Project Performance Monitoring Plan

District staff will develop and submit a Project Performance Monitoring Plan including baseline conditions and monitoring location, methodology, and frequency.

- Deliverables:
 - Project Performance Monitoring Plan

Budget Category (d) Construction/Implementation

Task 10: Contract Services

District staff will prepare bid advertisement, conduct pre-bid meetings, bid opening and evaluation, selection of contractor, award contract, and issue NTP.

- Deliverables:
 - Advertisement for bids
 - Notice to Proceed

Task 11: Construction Administration

Administer progress payments, certified payrolls, close out paperwork. Complete facilities inspection and reporting.

- Deliverables:



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- Contract
 - Copies of certified payroll
 - Inspection Reports

Task 12: Construction

Construction activities are as follows:

- 12.1 Earthwork – This task includes the mobilization, demobilization, staking and earthwork to shape basin and wetlands area.
- 12.2 Mechanical Installation – This task includes the installation of the pipeline from the Canal to the basin and the installation of the inlet and outlets gates/control structures.
- 12.3 Well Installation – This task includes the installation of monitoring wells.
- 12.4 SCADA Control – This task involves installation of SCADA control for automating the constructed facilities.
- Deliverables:
 - Site photos
 - Construction photos
 - As-built drawings/well construction diagrams and boring logs



UC Merced Surface Water Augmentation Project

This project will replace the use of groundwater for irrigation on the UC Merced campus with local surface water from Lake Yosemite. UC Merced currently uses groundwater to fill Little Lake, which, in turn, feeds the irrigation system. This project will install a pipeline from the adjacent Fairfield Canal and convey water from Lake Yosemite to fill Little Lake in-lieu of groundwater pumping. This project will provide in-lieu groundwater recharge and banking, augmenting local groundwater supplies and aiding in long-term groundwater basin sustainability.

The bulleted list below provides the work summary for this project. To date, only the conceptual project design has been completed. The remaining tasks indicated below will be completed per the schedule shown in Attachment 5.

Budget Category (a) Direct Project Administration

Task 1: Project Administration

University staff will provide project management and administration of project including coordination with University facilities and administrative divisions on project timeline.

- Deliverables:
 - Timelines
 - Excel worksheet of staff time spent on project.
 - Invoices

Task 2: Labor Compliance Program

The University has a Labor Compliance Program (LCP) in place and is not anticipating any additional charges for reimbursement under this grant.

- Deliverables:
 - Copy of existing Labor Compliance Program

Task 3: Reporting

University staff will prepare progress reports detailing work completed during the reporting period for inclusion in a progress report to DWR. The District will prepare draft and final Project Completion Report for inclusion in a progress report to DWR.

- Deliverables:
 - Quarterly reports and Draft and Final Project Completion Reports.

Budget Category (b) Land Purchase/Easement

Task 4: Land Purchase/Easement

Project is within campus boundary already owned by UC Merced. No additional charges for reimbursement under this grant.

- Deliverables: N/A

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

Task 5: Planning– Not Applicable

Task 6: CEQA Documentation

University will prepare a Categorical Exemption.

- Deliverables:
 - Categorical Exemption



Task 7: Permitting

- University will acquire coverage under the State's General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities.
- Deliverables:
 - Final Storm Water Pollution Prevention Plan (SWPPP)

Task 8: Final Design

Design activities are outlined below:

- 8.1 Site survey - Conduct topographic survey and pothole for current pipe depth and location.
- 8.2 Final Design and Bid Documents - Complete design and generate bid documents. Answer bid questions, and provide engineering service during construction.
- Deliverables:
 - Final bid package, including plans and specifications.
 - Topographic map

Task 9: Project Performance Monitoring Plan

- University staff will develop and submit a Project Performance Monitoring Plan including baseline conditions and monitoring location, methodology, and frequency.
- Deliverables:
 - Project Performance Monitoring Plan

Budget Category (d) Construction/Implementation

Task 10: Contract Services

- Award construction contract, administer contract, payment, and closeouts.
- Deliverables:
 - Notice to Proceed
 - Notice of Final Completion

Task 11: Construction Administration

- Administer progress payments, certified payrolls, close out paperwork. University oversight and inspection of work.
- Deliverables:
 - Progress Meeting Minutes
 - Field notes
 - Inspection Reports

Task 12: Construction

Construction activities are as follows:

- 12.1 Mobilization and Site Preparation – This task includes the mobilization of the contractor and clearing of the pipeline alignment.



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- 12.2 Construction – This task includes the installation of the pipeline from the Canal to the Lake, gates, and telemetry. This task also includes installation of upgraded filtration equipment and pumping equipment at the existing Little Lake Pump House.
- 12.3 Demobilization and Closeout – This task includes closeout of the construction and preparation of record drawings.
- Deliverables:
 - Site photos
 - Construction photos
 - As-built drawings



Grant Administration Project

The MID's Grant Administration Project will provide administration support for the Merced Irrigation District's Proposition 84, 2015 Grant Solicitation funds, and serve as the contracting agency for DWR.

The bulleted list below provides the work summary for this project.

Budget Category (a) Direct Project Administration

Task 1: Project Administration

Grant administration activities will be performed by the MID and will include grant administration, and execution of grant contract. Grant application preparation will be conducted by a consultant prior to grant award.

- Deliverables:
 - Invoices for reimbursement
 - Executed grant contract

Task 2: Labor Compliance Program

The District has a Labor Compliance Program (LCP) in place and is not anticipating any additional charges for reimbursement under this grant.

- Deliverables: N/A

Task 3: Reporting

District will compile and submit reporting documents and progress report to DWR.

- Deliverables:
 - Quarterly reports and Final Project Completion Reports.

Budget Category (b) Land Purchase/Easement

Task 4: Land Purchase/Easement – Not Applicable

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

Task 5: Planning – Not Applicable

Task 6: CEQA Documentation – Not Applicable

Task 7: Permitting – Not Applicable

Task 8: Final Design – Not Applicable

Task 9: Project Performance Monitoring Plan – Not Applicable

Budget Category (d) Construction/Implementation

Task 10: Contract Services – Not Applicable

Task 11: Construction Administration – Not Applicable

Task 12: Construction – Not Applicable