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## Attachment 6. Schedule

Monterey Peninsula, Carmel Bay, and South Monterey Bay  
Integrated Regional Water Management  
2014 Drought Grant Proposal

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## Attachment 6. Schedule

Understanding the expedited nature of this grant program and the critical concerns of DWR and of the Monterey Peninsula Region regarding the ongoing drought, all projects presented in this proposal will be ready to proceed with construction/implementation on or before March 27, 2014.

The included schedules show the start and end dates as well as milestones for each project contained in the Work Summary. A description is provided with the schedule for each project to ensure that it is realistic, reasonable, and accomplishable based on the state of project development (such as design phase, status of permitting, and environmental documentation).

Projects are presented in the following order:

- 1) City of Salinas Drought Relief through Stormwater Diversion for Water Supply
- 2) Lake El Estero Diversion
- 3) Advanced Water Purification Demonstration Facility
- 4) Recycled Water Onsite Retrofits
- 5) HEART Pilot Program



### **6.1.1 City of Salinas Stormwater Diversion Project Schedule Description**

The project is ready to begin preliminary design upon award in October 2014, with plans to start construction by the end of March 2015. Since planning and conceptual design for this project is complete, the City can proceed immediately, moving the project elements into preliminary and detailed design, construction, startup and operation. Table 3-3 shows a detailed schedule.

The project is ready to begin as soon as funds are awarded, and it will continue throughout the project. Each subtask in this category will continue through the duration of the project, aside from administration and monitoring of the construction contract, which will span the duration of construction contract. This is typical for construction projects for the City of Salinas and is a reasonable assumption. Land Purchase/Easements: N/A – City owns all land associated with project.

Conceptual design is already completed, and the City has already drafted the Basis of Design report, so 30 days should be more than sufficient to finalize the report. As this project utilizes a great deal of existing infrastructure, the design for this project is not complex, and it will be designed in house by City Staff, so two months is a more than reasonable assumption for final design. As the City is CEQA/NEPA exempt for this project and the project will require minimal construction on already disturbed land, the required paper should not take more than three months.

One month is the typical duration for competitive bidding for projects of this magnitude. The 1.5 months allotted will give the City time to ensure that they can reach a decision and obtain City Council approval as this is a typical amount of time for a project of this magnitude. Five months is a reasonable amount of time for the scale of this project given the scope: mobilization and site preparation; percolation tests on Blanco Retention Basin; installation of 8-in pipe for mainline and 4-in perforated pipe for underdrains; low-flow dry-weather diversion connection with control valves intertied to SCADA to divert low flow stormwater into MRWPCA system; installation of backflow preventer, 6-in gate valves for open/close flow into MRWPCA system and retention basin, and flow meter; installation of low head pump station, and 6-in force main from pump station to retention basin; regrade Blanco Retention Basin; installation of diversion valve/splitter box of new sluice gate to divert low flow stormwater into Blanco Retention Basin; startup, commissioning, and performance testing and demobilization; site cleanup; permitting and BMPs. As is typical for similar projects, the City will provide inspection and review for the duration of construction. One month is a reasonable amount of time to prepare the final report and is typical for projects of this size.

Two months will be sufficient to prepare the Final Monitoring Plan. This will give staff time to determine the optimal location, and methods for monitoring water quality and flow monitoring will be included in the project's engineering design subtask. Implement Monitoring Plan and Begin Ongoing Performance Monitoring will begin when construction is complete and continue indefinitely. The City will file performance monitoring reports and regulatory reports in accordance with the IRWM Plan. The City will also prepare monitoring reports for CEDEN Central Coast Data Center.

*NOTE: The City of Salinas Stormwater Diversion project has great potential to benefit both the Monterey Peninsula Region and Greater Monterey County Region, and has been submitted in both regions. For more details on the multi-regional interaction on this project, please refer to Attachment 3 (Att3\_ProJust\_1of2).*



### ***6.2.1 Lake El Estero Diversion Project Schedule Description***

The Lake El Estero Diversion project is not complicated to implement. Runoff models and planning have already been performed to prove the concept of the project. Equipment and construction elements have already been determined and selected.

The process will be transparent with the bid process going through an internal committee that makes recommendations to the full Board of Directors. After the specifications and bid package have been assembled and approved, the bidding and vetting process will take approximately three months prior to the award and notice to proceed is submitted for the project.

After the notice to proceed is submitted to the contractor, it is estimated that the construction phase will last approximately two months, from March 1, 2015 to April 30, 2015. Since facilities that are already constructed will be utilized for a majority of the project, construction will be performed quickly and without undue interruption to the Lake El Estero uses and to the general public. The new pump and electrical control panel to convey the water through the sanitary sewer to the treatment plant will be installed in an existing pump station; the process will be performed quickly. About 40-feet of new 12-inch piping along with appurtenances will need to be installed and a drainage basin adjacent to Lake El Estero will need to be connected through the existing Pearl Street box culvert.

The installation of the 12-inch pipe and the connection of the drainage basin to the existing Pearl Street box culvert can be completed in the two month scheduled time frame. Other installations including safeguards consisting of pressure sensors on manhole covers and check-valves can be installed at the same time as the other construction and do not pose any scheduling delays.

The project is planned to have a 30-year life span and the useful life of the equipment is on the order of 10-years or more. The pump or pump motor can be expected to last on the order of 5 to 10 years depending on amount of use and having regular maintenance and inspections performed.



### ***6.3.1 Advanced Water Purification Demonstration Facility Project Schedule Description***

The Advanced Water Purification Demonstration Facility is not a complicated project to implement. Based on some of the technical specification data that was generated from the leased equipment pilot project, the final equipment specifications can be easily bracketed and the resulting bid process will be straightforward.

Inclusion of the more detailed information that is included in the bid solicitation package regarding equipment performance will result in a tighter, more comprehensive bid from various manufacturers. Bids that are more uniform will accelerate the bid review process and subsequently result in a quicker turnaround for award and mobilization.

The process will be a transparent process as MRWPCA is a regional, public agency. To accommodate for this transparency, the bid process has to go through an internal committee that makes recommendations to the full Board of Directors. The review and recommendation process will add approximately three to four weeks on the award and mobilization phase of the project.

Since the equipment for the demonstration facility will be housed in an existing building at the regional wastewater facility, limited disruptions on locating and installing the equipment are anticipated. Testing the equipment and training the treatment plant operators will be an efficient process as well. Most if not all of the treatment plant operators became familiar with the leased equipment during the pilot test period so a large learning curve on the new equipment is not expected.

The useful life of the demonstration equipment is expected to be 10 years. MRWPCA has an excellent preventative maintenance program and anticipates the useful life of the equipment to be extended at least an additional 5 years.



#### ***6.4.1 Recycled Water Onsite Retrofits Project Schedule Description***

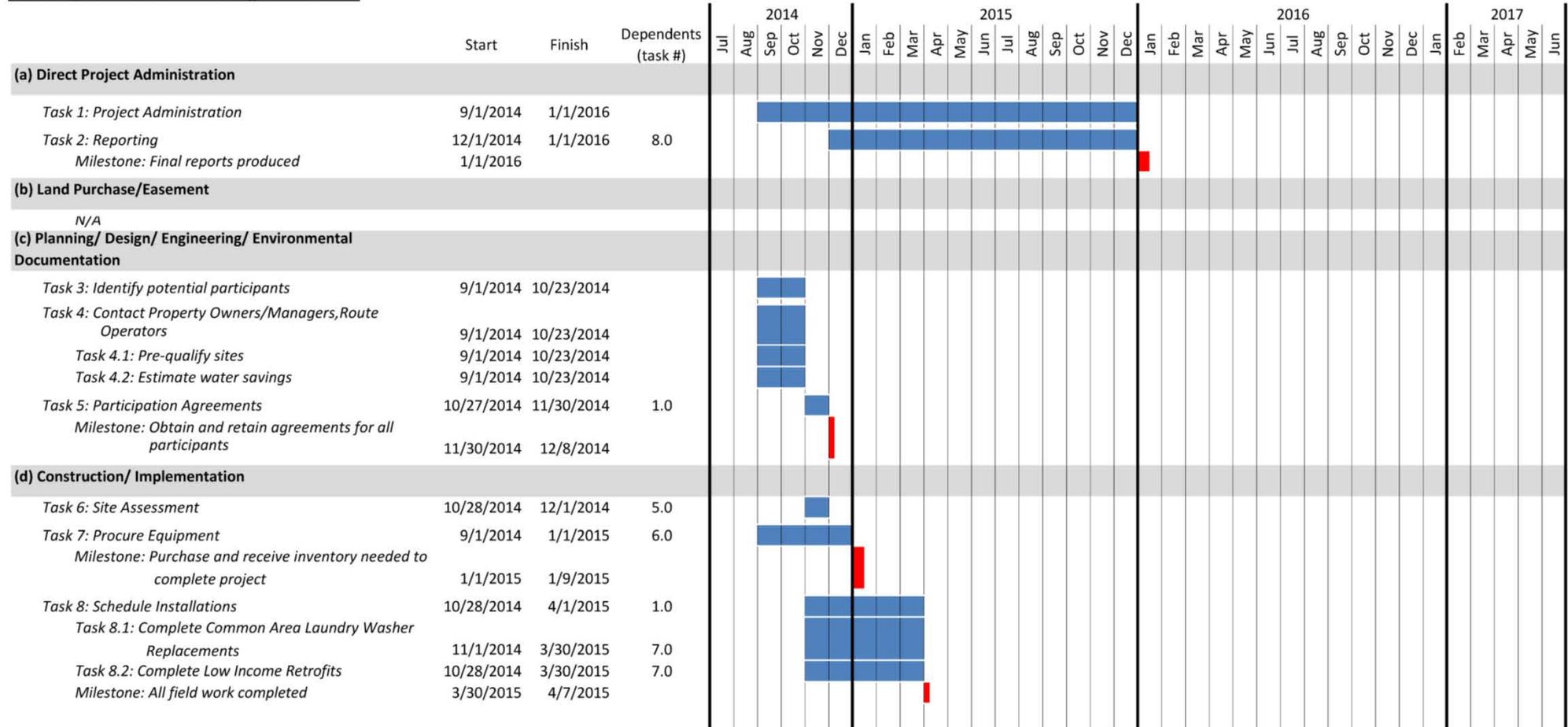
The proposed project benefits from a number of already completed and ongoing activities, mostly related to the development of the PG-LWP. These include the following:

- ◆ No land acquisition is required. All work will be within existing City owned properties or in public right-of-ways.
- ◆ The features and facilities of the proposed Project represent standards in the water/wastewater industry. Nothing proposed is unique, exotic or new that would otherwise require additional time for design development, construction methods or additional regulatory consideration.
- ◆ The scale of the proposed project is relatively small and not considered to be a major public works project.
- ◆ Construction of the proposed project facilities is straightforward and will consist primarily of the repair and replacement of pipelines throughout the Golf Links and El Carmelo Cemetery using traditional open-trench or trenchless methods. Local construction contractors are available who are experienced with the construction of similar facilities within the area of the proposed Project.
- ◆ The City will contract with a Design-Build Entity to speed the integrated accomplishment of design completion and construction. The use of a D-B entity is expected to shorten the implementation schedule by not having to separately procure and manage design and construction contracts.
- ◆ Regulatory agency coordination is ongoing. The proposed Project is not considered controversial. Several examples of similar projects are located within the region.
- ◆ Preparation of the Draft EIR is underway with the circulation scheduled for September, 2014. Biological, cultural/historic, soils and geotechnical field studies have been completed. To date no significant unavoidable environmental effects have been identified. Therefore, only routine construction mitigation requirements will be necessary. It is estimated that compensatory or offsite mitigations will not be required.

## 6.5 HEART PILOT PROGRAM PROJECT SCHEDULE

### HEART Pilot Program

Monterey Peninsula Water Management District



### ***6.5.1 HEART Pilot Program Schedule Description***

The HEART Project can be fully completed within seven months and will result in immediate quantifiable benefits to the watershed and the customers, a number of which will be located in disadvantaged communities. Benefits include reduced water consumption, reduced energy consumption, and reduced water bills for low income customers. Much of the start-up work can be completed by MPWMD staff utilizing existing resources, such as its extensive conservation database. Other pre-project preparation includes collaboration with the local water purveyors, Cal-Am and Seaside Municipal Water District, as well as the local housing authority and other community service organizations. Monterey residential water rates are some of the highest in the country, making reductions in water bills for low income customers a community service in addition to the significant water savings the community will as a whole benefit from.

The Request for Proposals will be released and provided to local plumbing contractors and advertised in the local newspaper. After a sufficient response period of at least two weeks, interviews will be conducted, followed by Board approval of the selected contractor(s). As a public agency, contracts are subject to Board authorization. MPWMD intends to manage the contractors and to provide quarterly reports of the project's progress to its Board of Directors.

The contractor(s) will be responsible for implementation of the retrofit projects, including scheduling and obtaining liability releases from the responsible party, with oversight by MPWMD. Purchase of equipment will be done by MPWMD, with installation and repair work done by the contractor(s). At the conclusion of the HEART Program, MPWMD will prepare a comprehensive project report to document the process and water savings.



***6.6.1 Monterey Peninsula, Carmel Bay, and South Monterey Bay Integrated  
Regional Water Management 2014 Grant Proposal Description***

The overall Grant Proposal schedule shows the compiled dates for each of the five projects described: City of Salinas Drought Relief through Stormwater Diversion for Water Supply, Lake El Estero Diversion, Advanced Water Purification Demonstration Facility, Recycled Water Onsite Retrofits, and the HEART Pilot Program to indicate the total length of the proposals projects. For all categories: (a) Direct Project Administration, (b) Land Purchase/Easement, (c) Planning/ Design/ Engineering/ Environmental Documentation, and (d) Construction/ Implementation the earliest and latest dates for which work will be performed for each project have been combined to give a total date range for each category. For the entire project the first portion of work began on June 23, 2014 and the last task of all projects will be completed by May 30, 2016.