

## *ATTACHMENT 5. SCHEDULE*

The schedule on the next page summarizes the duration of the four budget categories for each project included in this application. This schedule is a roll-up of the individual project schedules that are shown later in this attachment.

For each of the projects contained in this application, the following sections include the project schedule and a description of how the schedule shown is realistic, reasonable, and accomplishable based on the state of the project development. The schedules show the start and end dates for each project task, project milestones and the duration in Gantt chart form. The schedule also illustrates work items that are dependent on one another through linkages.

Please note the following conventions that have been used for these schedules:

- Tasks that are ongoing have been given start dates based on the tolerance of the project proponent to accept the risk of initiating work prior to receiving a funding agreement. For those projects willing to accept some risk, an assumed start date of December 21, 2015 was selected as the anticipated date for the announcement of final grant awards. For risk-adverse projects requiring a draft funding agreement, a start date of January 4, 2016 was selected. These start dates would change based on when California Department of Water Resources (DWR) announces the final funding awards and when draft funding agreements will be completed.
- Tasks that are complete are shown with 0 day durations at the assumed start date of the project. Proof of completion of these tasks and deliverables will be transmitted to DWR after grant award.

The reason for these conventions is to allow the Gantt charts to focus on and show detail during the period after the assumed award date of the grant.

ID	Task Name	Duration	Start	Finish	2013		2014		2015		2016		2017		2018		2019
					H2	H1											
1	<b>East Stanislaus 2015 IRWM Grant Application</b>	1437 days	Wed 5/1/13	Thu 11/1/18													
2	Final Grant Award Date	0 days	Mon 12/21/15	Mon 12/21/15													
3	<b>Project 1: Grant Administration</b>	749 days	Mon 12/21/15	Thu 11/1/18													
4	Budget Category (a): Direct Project Administration	749 days	Mon 12/21/15	Thu 11/1/18													
23	Budget Category (b): Land Purchase/Easement	0 days	Mon 12/21/15	Mon 12/21/15													
24	Budget Category (c): Planning/Design/Engineering/Environmental Documentation	0 days	Mon 12/21/15	Mon 12/21/15													
25	Budget Category (d): Construction/Implementation	0 days	Mon 12/21/15	Mon 12/21/15													
26	<b>Project 2: North Valley Regional Recycled Water Program</b>	1221 days	Wed 5/1/13	Wed 1/3/18													
27	Budget Category (a): Direct Project Administration	1221 days	Wed 5/1/13	Wed 1/3/18													
55	Budget Category (b): Land Purchase/Easement	683 days	Mon 3/17/14	Wed 10/26/16													
58	Budget Category (c): Planning/Design/Engineering/Environmental Documentation	911 days	Wed 5/1/13	Wed 10/26/16													
75	Budget Category (d): Construction/Implementation	360 days	Thu 8/4/16	Wed 12/20/17													
86	<b>Project 3: Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project</b>	530 days	Mon 1/4/16	Fri 1/12/18													
87	Budget Category (a): Direct Project Administration	530 days	Mon 1/4/16	Fri 1/12/18													
105	Budget Category (b): Land Purchase/Easement	0 days	Mon 1/4/16	Mon 1/4/16													
108	Budget Category (c): Planning/Design/Engineering/Environmental Documentation	260 days	Mon 1/4/16	Fri 12/30/16													
123	Budget Category (d): Construction/Implementation	290 days	Mon 12/5/16	Fri 1/12/18													

Project: Overall Application Sched  
Date: Thu 8/6/15

Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
Split		External Tasks		Inactive Summary		Manual Summary		Progress	
Milestone		External Milestone		Manual Task		Start-only			
Summary		Inactive Task		Duration-only		Finish-only			

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## **Project 1: Grant Administration (City of Modesto)**

The Grant Administration Project for the East Stanislaus 2015 IRWM Grant will follow the schedule shown below. The project will commence with the grant award, and will terminate when all requirements of the grant agreement have been met.

### **Schedule Justification**

The schedule presented for the Grant Administration Project is based on an approximation of the final grant award date, time required for drafting and executing the funding agreement, and on the schedules for the two other projects contained in this application. This schedule focuses solely on meeting the terms and requirements that will be included in the grant agreement with the City of Modesto. As such, this schedule is considered to be realistic, reasonable and accomplishable based on the states of the two projects contained in this application.

ID	Task Name	Duration	Start	Finish	2016				2017				2018				2019
					Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
1	East Stanislaus 2015 IRWM Grant Application	749 days	Mon 12/21/15	Thu 11/1/18													
2	Grant Administration Project	749 days	Mon 12/21/15	Thu 11/1/18													
3	Final Grant Award Date	0 days	Mon 12/21/15	Mon 12/21/15			12/21										
4	Budget Category (a): Direct Project Administration	749 days	Mon 12/21/15	Thu 11/1/18													
5	Task 1 - Agreement Administration	0 days	Fri 1/29/16	Fri 1/29/16			1/29										
6	Executed Grant Agreement	0 days	Fri 1/29/16	Fri 1/29/16			1/29										
7	Task 2 - Invoicing	716 days	Mon 1/11/16	Mon 10/8/18													
8	Quarterly invoices	716 days	Mon 1/11/16	Mon 10/8/18													
21	Task 3 - Progress Reports and Project Completion Report(s)	734 days	Mon 1/11/16	Thu 11/1/18													
22	Subtask 3a: Progress Reports	716 days	Mon 1/11/16	Mon 10/8/18													
35	Subtask 3b: Grant Completion Reports	24 days	Mon 10/1/18	Thu 11/1/18													
36	Task 4 - Performance Monitoring and Tracking	748 days	Mon 12/21/15	Wed 10/31/18													
37	Task 5 - Labor Compliance Tracking	748 days	Mon 12/21/15	Wed 10/31/18													
38	Budget Category (b): Land Purchase/Easement	0 days	Mon 12/21/15	Mon 12/21/15			12/21										
39	Budget Category (c): Planning/Design/Engineering/Environmental Documentation	0 days	Mon 12/21/15	Mon 12/21/15			12/21										
40	Budget Category (d): Construction/Implementation	0 days	Mon 12/21/15	Mon 12/21/15			12/21										

Project: Grant Admin Schedule Date: Thu 8/6/15	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Progress	
	Milestone		External Milestone		Manual Task		Start-only			
	Summary		Inactive Task		Duration-only		Finish-only			

## **Project 2: North Valley Regional Recycled Water Program (City of Modesto)**

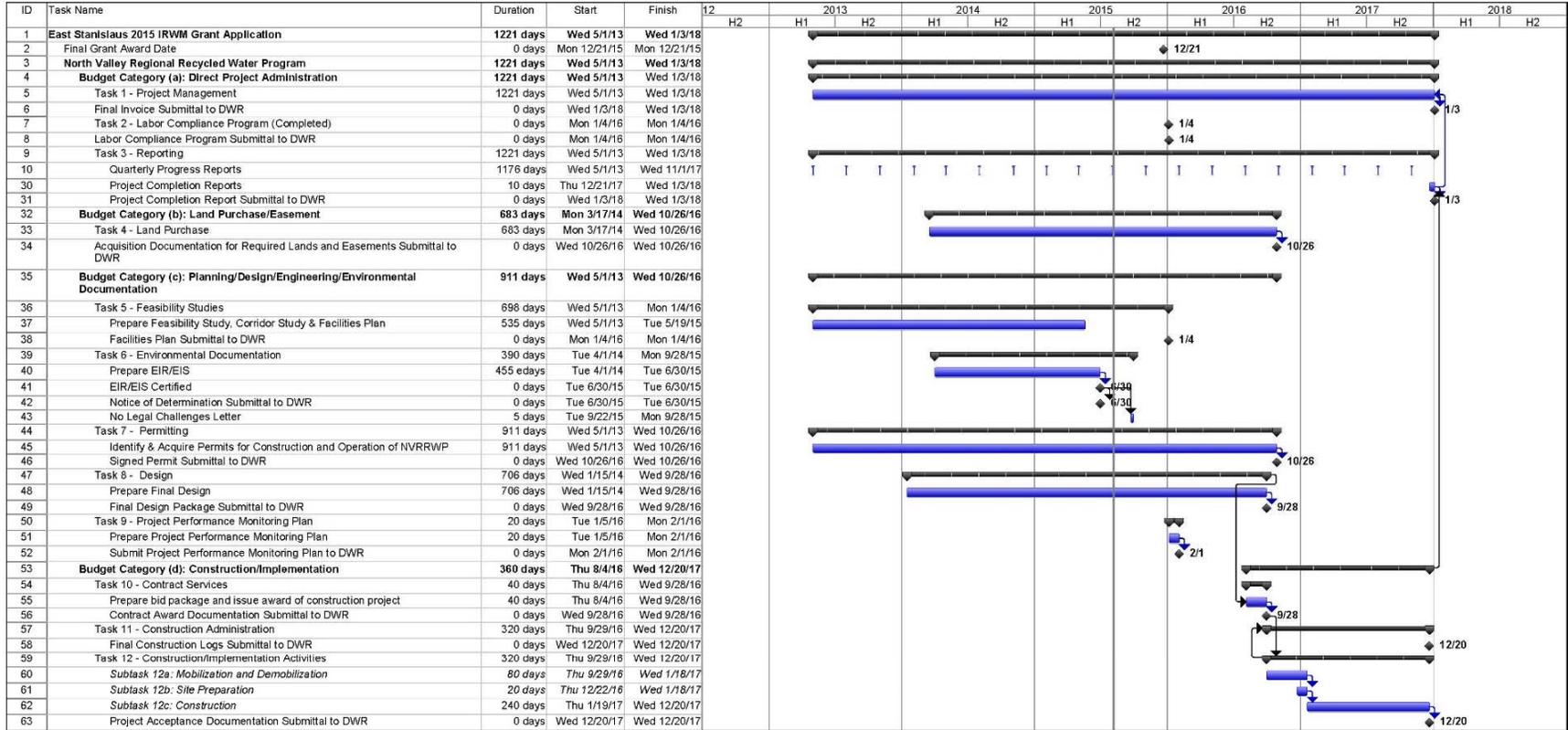
Implementation of the **North Valley Regional Recycled Water Program** will follow the schedule below. The inter-regional project, sponsored by the City of Modesto, City of Turlock, and Del Puerto Water District, will begin once the grant is award (assumed to be December 21, 2015) and is expected take less than three years to complete.

### **Schedule Justification**

Construction activities of the NVRWWP are expected to begin in September 2016. This is a reasonable anticipated start date based on the current project status and the remaining work to be completed prior to implementation.

A significant amount of progress has been made on the NVRWWP over the last few years. The NVRWWP Feasibility Study (FS) was prepared in 2013 which identified the preferred alternative of conveying recycled water from the Cities of Modesto and Turlock to DPWD via the Delta-Mendota Canal (DMC). In conjunction with the development of the FS, other studies were completed, such as the Pipeline Corridor Study, the Assessment of Potential Effects on Fisheries Habitat, and the San Joaquin River Flow Analysis. These studies provided the basis for the Facilities Plan (i.e. pre-design), completed in May 2015, environmental documentation, and permitting process. A preliminary list of permits required for construction and operation of the NVRWWP has been identified and discussions with the permitting agencies has begun. An Environmental Impact Report/Environmental Impact Statement (EIR/EIS) was prepared in 2014, and the document was certified in June of 2015. In parallel to preparation of the EIR/EIS, design was initiated and applications for permits to be acquired were begun. Upon completion of design and permitting, the City of Modesto, in conjunction with the project partners, will release the advertisement for bid and award a contractor to construct the NVRWWP. Construction activities are anticipated to begin in September 2016 and finish in December of 2017.

This schedule is realistic, reasonable, and accomplishable. There is significant public and regulatory support for this project resulting in limited institutional and/or regulatory obstacles. The NVRWWP project partners have been in communication with San Luis Delta-Mendota Water Authority (SLDMWA) regarding use of the DMC, the U.S. Bureau of Reclamation, the City Councils of Modesto and Turlock, the State Water Resources Control Board and Regional Water Quality Control Board, DPWD landowners / growers, California Department of Public Health, the Nature Conservancy, and elected representatives at the local, regional, state, and federal levels. Outreach to stakeholders and interested entities is ongoing, as is communication with permitting, regulatory, and partnering agencies. The NVRWWP partners are working on interim water deliveries to help DPWD respond to the current drought and will work to maintain the schedule to deliver the entire projected volume of recycled water to growers by 2018.



Project: 5, Project# Schedule Date: Thu 8/6/15	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress		
	Split		External Tasks		Inactive Summary		Manual Summary		Deadline		
	Milestone		External Milestone		Manual Task		Start-only				
	Summary		Inactive Task		Duration-only		Finish-only				

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## **Project 3: Area 2 Stormwater to Sanitary Sewer Cross Connection Removal Project (City of Modesto)**

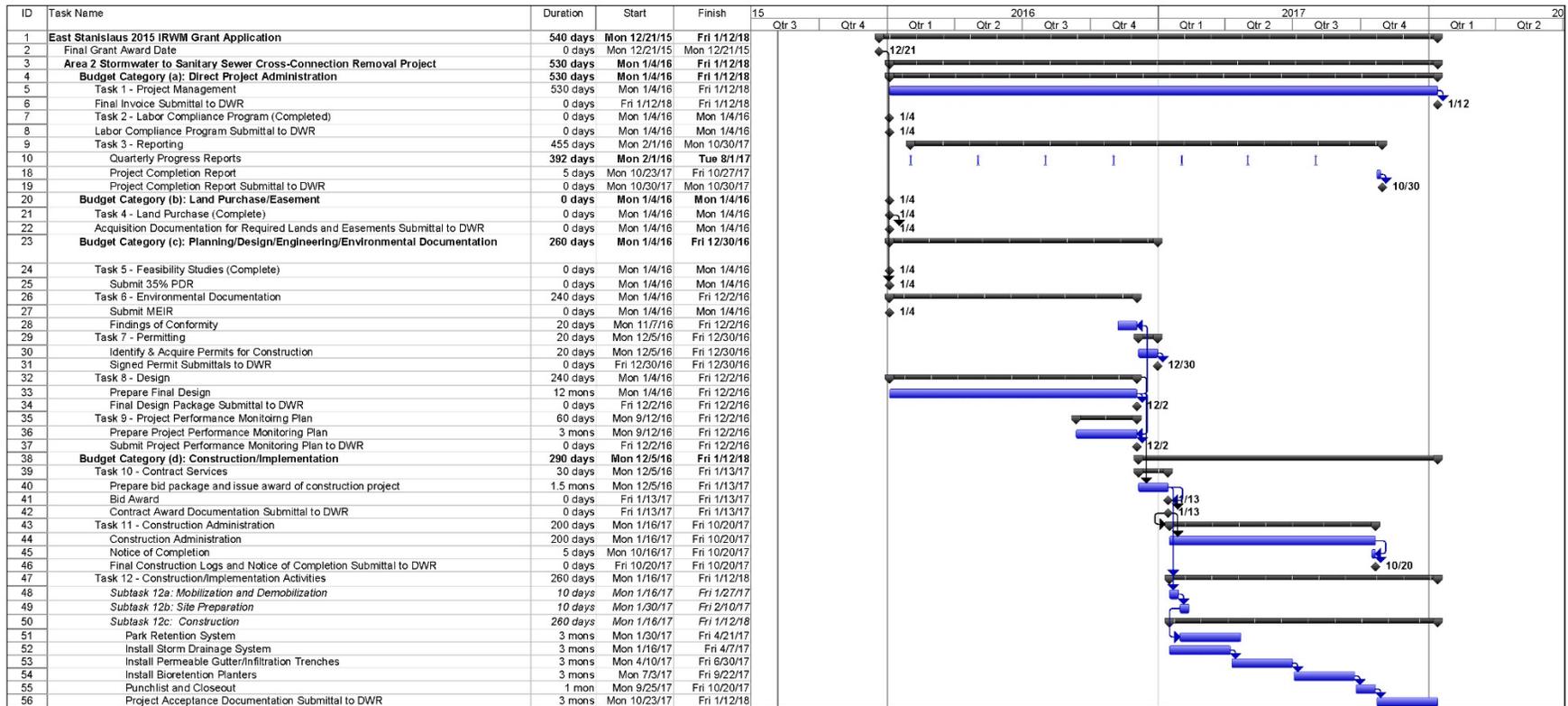
The **Area 2 Stormwater to Sanitary Sewer Cross Connection Removal Project** will follow the schedule shown below. The City of Modesto has completed and successfully implemented Phase 1 of the overall cross-connection removal program, and final design and construction of Phase 2, for which grant funding is being sought, will begin once the grant is award (assumed to be December 21, 2015). The Project is expected take less than three years to complete.

### **Schedule Justification**

Final design and construction activities for the Areas 2 Stormwater to Sanitary Sewer Cross Connection Removal Project are expected to begin in early 2016. This is a reasonable anticipated start date based on the current project status and the remaining work to be completed prior to implementation. The start date will also be influenced by the receipt of the draft funding agreement for this project.

As previously noted, the City constructed Phase 1 of the project in Garrison Park in 2014. The system work flawlessly during a 100-year event that occurred on December 2, 2014. Based on lessons learned from Phase I, this Phase 2 project, to be implemented in Roosevelt Park, will be designed to incorporate lessons learned from Phase 1.

This schedule is realistic, reasonable, and accomplishable. The proposed Project has been designed through 35%, and all environmental documentation has been completed. Necessary project permits have been identified, as have supplemental studies required to complete the 100% project design. Furthermore, as the City has already implemented the first phase of the project, it has experience in regards to the schedule required for such a project design and construction, in addition to templates from which to complete final design and for the construction specifications and bid package. These documents will expedite the completion and construction of the Phase 2 project in Roosevelt Park.



Project: 5.Project# Schedule Date: Thu 8/6/15	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Progress	
	Split		External Tasks		Inactive Summary		Manual Summary		Deadline	
	Milestone		External Milestone		Manual Task		Start-only			
	Summary		Inactive Task		Duration-only		Finish-only			

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