

**WATERSHEDS COALITION OF VENTURA COUNTY  
2014 Drought Grant Proposal**

**SCHEDULE**

**PROPOSAL SCHEDULE**

Detailed schedules for each of the individual projects and the Proposal are provided on the following pages. The schedules show the sequence and timing of work items presented in the Proposal and assumes the effective date of the grant agreement to be October 16, 2014. The schedule shows the start dates, end dates, and milestones for each work item contained in Attachment 4, Work Summary, and when applicable, dependence on predecessors is also shown. All projects in this proposal are scheduled to start construction/implementation by April 1, 2015. The bulk of the work occurs in 2015, and many of the benefits, such as water savings, water supply protection and recharge, will be realized by fall 2015. All major work will be complete in 2016 with follow-up activities such as monitoring and arundo retreatment extending into later years.

ID	Task Name	Start	Finish	2014			2015				2016				2017				2018				2019				
				Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
1	WCVC 2014 IRWM Drought Grant	Thu 7/3/14	Thu 7/3/14	I																							
2																											
3	Grant Award	Thu 10/16/14	Thu 10/16/14	◆ 10/16																							
4																											
5	Ventura County Agricultural Water Use Efficiency	Mon 6/2/14	Tue 11/15/16																								
6																											
7	Salinity Management Pipeline, Phase 2D	Mon 11/5/12	Tue 12/27/16																								
8																											
9	Pleasant Valley Well	Thu 4/10/14	Tue 8/25/15																								
10																											
11	El Rio Retrofits for Groundwater Recharge	Mon 6/2/14	Tue 8/16/16																								
12																											
13	Groundwater Replenishment and Recharge Project	Wed 5/1/13	Mon 5/16/16																								
14																											
15	Lake Casitas Aeration	Wed 5/1/13	Mon 5/16/16																								
16																											
17	San Antonio Creek Arundo Removal	Mon 6/2/14	Tue 11/19/19																								

<b>Watersheds Coalition of Ventura County</b> <b>2014 IRWM Drought Grant Proposal</b>	Task		Summary	
	Milestone	◆	Project Summary	

**WATERSHEDS COALITION OF VENTURA COUNTY  
2014 Drought Grant Proposal**

**VENTURA COUNTY AGRICULTURAL WATER USE EFFICIENCY PROGRAM**

Ventura County Watershed Protection District (VCWPD) has prepared a detailed schedule for the Ventura County Agricultural Water Use Efficiency Program. VCWPD has examined the grant tasks and deliverables in light of experience on the recent and similar project, Irrigation Mobile Lab, and in coordination with project partners Ventura County Farm Bureau, Ventura County Resource Conservation District, and University of California Cooperative Extension. This project is well positioned to provide a meaningful response to drought impacts in Ventura County with particular focus on the valuable \$1.2 billion per year agricultural industry<sup>1</sup>. Evaluations will begin in early 2015 and continue into summer 2016. Improvements to irrigation efficiency will start in spring 2015 with water savings achieved soon thereafter. The schedule is achievable for the following reasons:

- The Ventura County Agricultural Water Use Efficiency Program will be modeled after another successful program, the Irrigation Mobile Lab. This greatly streamlines both the design and implementation tasks. Because similar work has been performed in the recent past, there is high confidence that task durations are reasonable and achievable.
- Ventura County Farm Bureau has already received inquiries looking for assistance with irrigation efficiency improvements and given the extensive impacts of the drought in Ventura County, and the significant contribution of agriculture to Ventura County's economy, finding suitable project sites is not expected to be difficult.

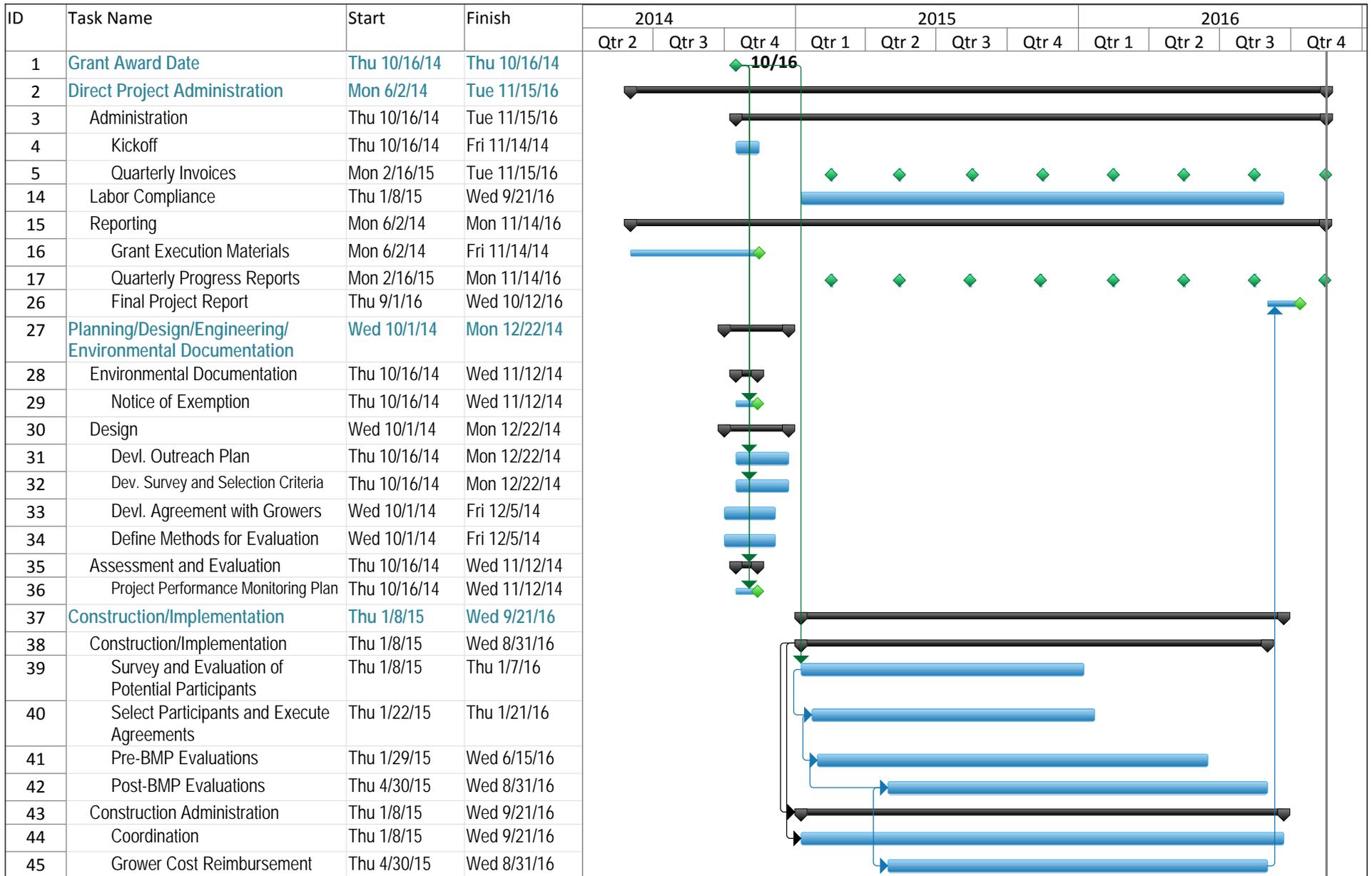
**SALINITY MANAGEMENT PIPELINE, PHASE 2D**

Calleguas Municipal Water District (Calleguas) has prepared a detailed schedule for the Salinity Management Pipeline (SMP), Phase 2D. Calleguas has prepared the schedule and the individual tasks based on experience with eight earlier phases of the SMP. Construction will begin in early 2015 and continue into late spring 2016. The SMP will be able to accept brine from desalted water and enable use of degraded local water supplies by summer 2016. The schedule is achievable for the following reasons:

- Calleguas is well underway in acquiring the necessary easements for SMP 2D. Although eminent domain is necessary, in Calleguas' experience, it takes approximately six months to acquire access to the property, and therefore the easements will be obtained well before the anticipated construction start date since the process was started in May 2014. CEQA documentation for the project is complete. Since completion of the CEQA document, Calleguas has actively pursued the permits needed for SMP 2D. These aspects of the project (land, environmental review, permitting), which can delay a project, are well underway and no major obstacles are anticipated.
- Construction needs are well understood because 90% design has been completed.

---

<sup>1</sup> Ventura County Office of the Agricultural Commissioner. 2012. Ventura County's Crop and Livestock Report: Changing Tastes. Page 5



Watersheds Coalition of Ventura County  
 2014 Drought Grant Proposal  
 VENTURA COUNTY AGRICULTURAL WATER USE EFFICIENCY PROGRAM



ID	Task Name	Start	Finish	2014			2015				2016				2017		
				Qtr 2	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	Grant Award Date	Thu 10/16/14	Thu 10/16/14			◆ 10/16											
2	Direct Project Administration	Mon 6/2/14	Tue 8/16/16	▶													
3	Administration	Thu 10/16/14	Tue 8/16/16	▶													
4	Kickoff	Thu 10/16/14	Fri 11/14/14	■													
5	Quarterly Invoices	Mon 2/16/15	Tue 8/16/16			◆	◆	◆	◆	◆	◆	◆	◆				
13	Labor Compliance	Wed 11/5/14	Mon 5/2/16	▶													
14	Reporting	Mon 6/2/14	Tue 8/16/16	▶													
15	Grant Execution Materials	Mon 6/2/14	Fri 11/14/14	■													
16	Quarterly Progress Reports	Mon 2/16/15	Tue 8/16/16			◆	◆	◆	◆	◆	◆	◆	◆				
24	Final Project Report	Tue 6/14/16	Mon 7/25/16														◆
25	Land Acquisition	Thu 11/1/12	Mon 11/3/14	▶													
26	Land Acquisition	Thu 11/1/12	Mon 11/3/14	■													
27	Easement Deeds	Mon 11/3/14	Mon 11/3/14			◆ 11/3											
28	Planning/Design/Engineering/ Environmental Documentation	Mon 11/5/12	Tue 2/1/22	▶													
29	Environmental Documentation	Wed 10/2/13	Tue 4/22/14	▶ 4/22													
30	CEQA EIR	Wed 10/2/13	Tue 4/22/14	■													
31	Adoption of CEQA EIR	Tue 4/22/14	Tue 4/22/14	◆ 4/22													
32	Design	Mon 11/5/12	Mon 11/3/14	▶													
33	Design	Mon 11/5/12	Mon 11/3/14	■													
34	Final Plans and Specifications	Mon 11/3/14	Mon 11/3/14			◆ 11/3											
35	Permitting	Tue 4/1/14	Tue 11/4/14	▶													
36	CalTrans Encroachment Permit	Mon 6/30/14	Tue 11/4/14	■													
37	City of Camarillo Encroachment Permit	Mon 6/16/14	Tue 10/21/14	■													
38	Ventura Co. Transportation Encroachment Permit	Mon 6/16/14	Tue 10/21/14	■													
39	Watershed Protection Dist. Encroachment Permit	Mon 6/16/14	Tue 10/21/14	■													
40	General Coverage Stormwater	Tue 4/1/14	Fri 8/29/14	■													
41	General Coverage Test Water	Tue 4/1/14	Fri 8/29/14	■													
42	Assessment and Evaluation	Thu 10/16/14	Tue 2/1/22	▶													
43	Project Performance Monitoring Plan	Thu 10/16/14	Wed 11/12/14	■													
44	Post-Construction Assessment	Wed 2/8/17	Tue 2/1/22														▶
45																	▶

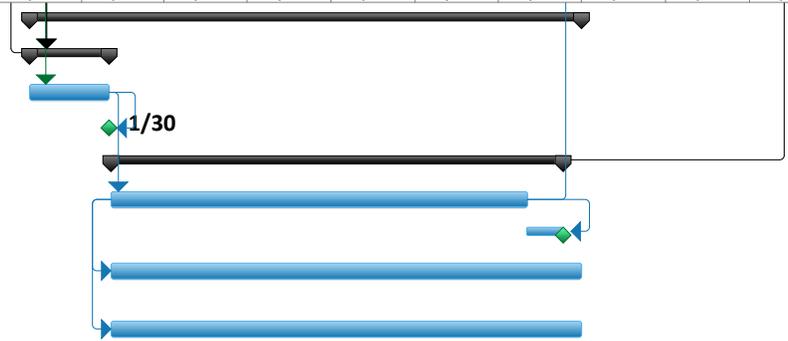
Watersheds Coalition of Ventura County  
2014 Drought Grant Proposal  
SALINITY MANAGEMENT PIPELINE, PHASE 2D

Task  Project Summary

Milestone  Manual Task

Summary

ID	Task Name	Start	Finish	2014				2015				2016				2017		
				Qtr 2	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	
46	Construction/Implementation	Wed 11/5/14	Thu 6/30/16															
47	Construction Contracting	Wed 11/5/14	Fri 1/30/15															
48	Construction Contracting	Wed 11/5/14	Fri 1/30/15															
49	Notice to Proceed	Fri 1/30/15	Fri 1/30/15															
50	Construction/Implementation	Mon 2/2/15	Fri 6/10/16															
51	Construction	Mon 2/2/15	Mon 5/2/16															
52	Record Drawings	Mon 5/2/16	Fri 6/10/16															
53	Environmental Compliance/Mitigation	Mon 2/2/15	Thu 6/30/16															
54	Construction Administration	Mon 2/2/15	Thu 6/30/16															



Watersheds Coalition of Ventura County  
 2014 Drought Grant Proposal  
 SALINITY MANAGEMENT PIPELINE, PHASE 2D

Task Project Summary

Milestone Manual Task

Summary

**WATERSHEDS COALITION OF VENTURA COUNTY  
2014 Drought Grant Proposal**

**PLEASANT VALLEY WELL**

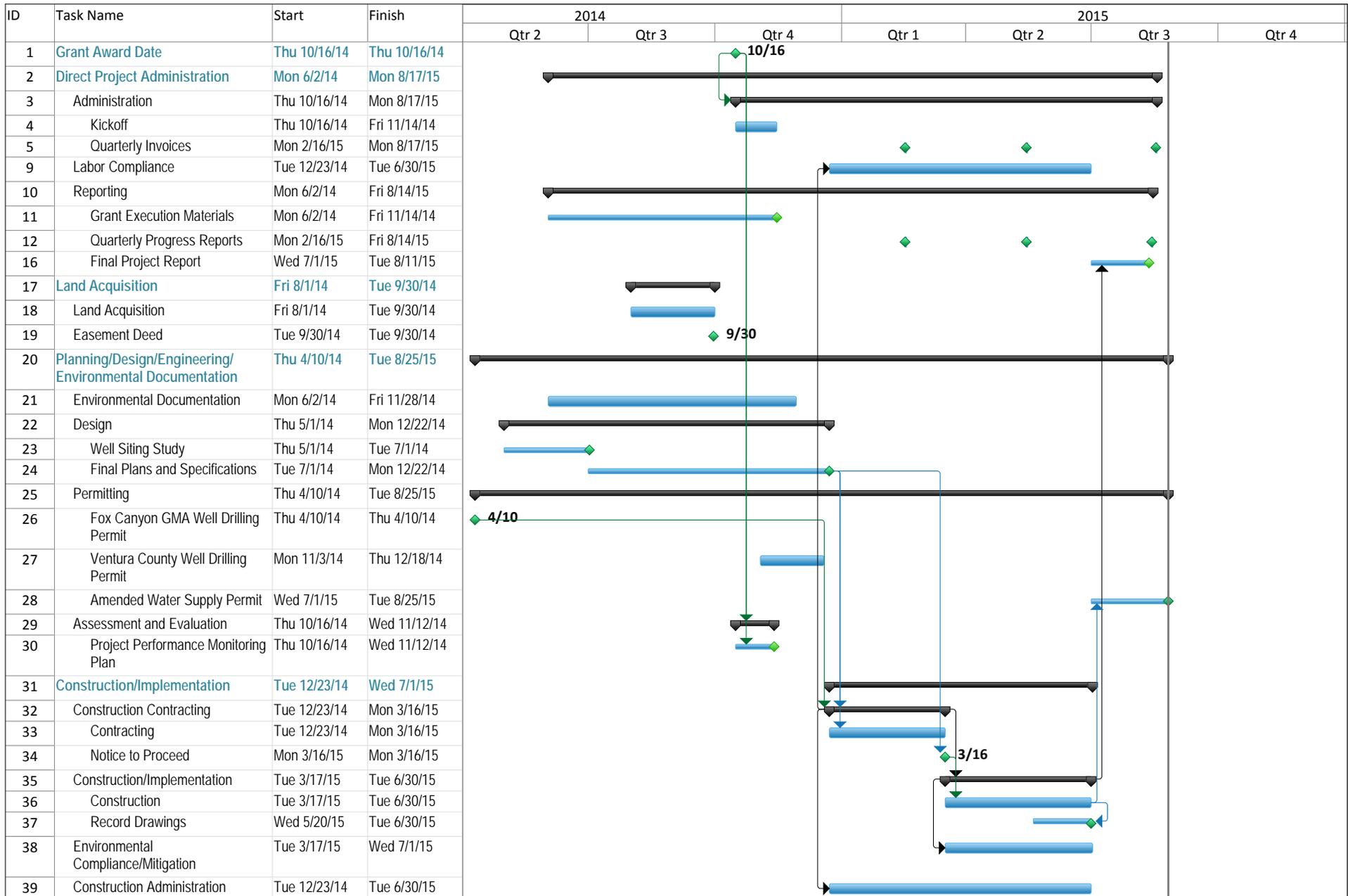
Camrosa Water District (Camrosa) has prepared a detailed schedule for the Pleasant Valley Well. Camrosa prepared the schedule based on tasks necessary to complete the Pleasant Valley Well and had the task durations reviewed by a consultant to verify estimates are reasonable for the project. Construction of the well will start in early spring 2015; the well will deliver water by mid-summer 2015. This is a short-time frame but high benefit project. The schedule is achievable for the following reasons:

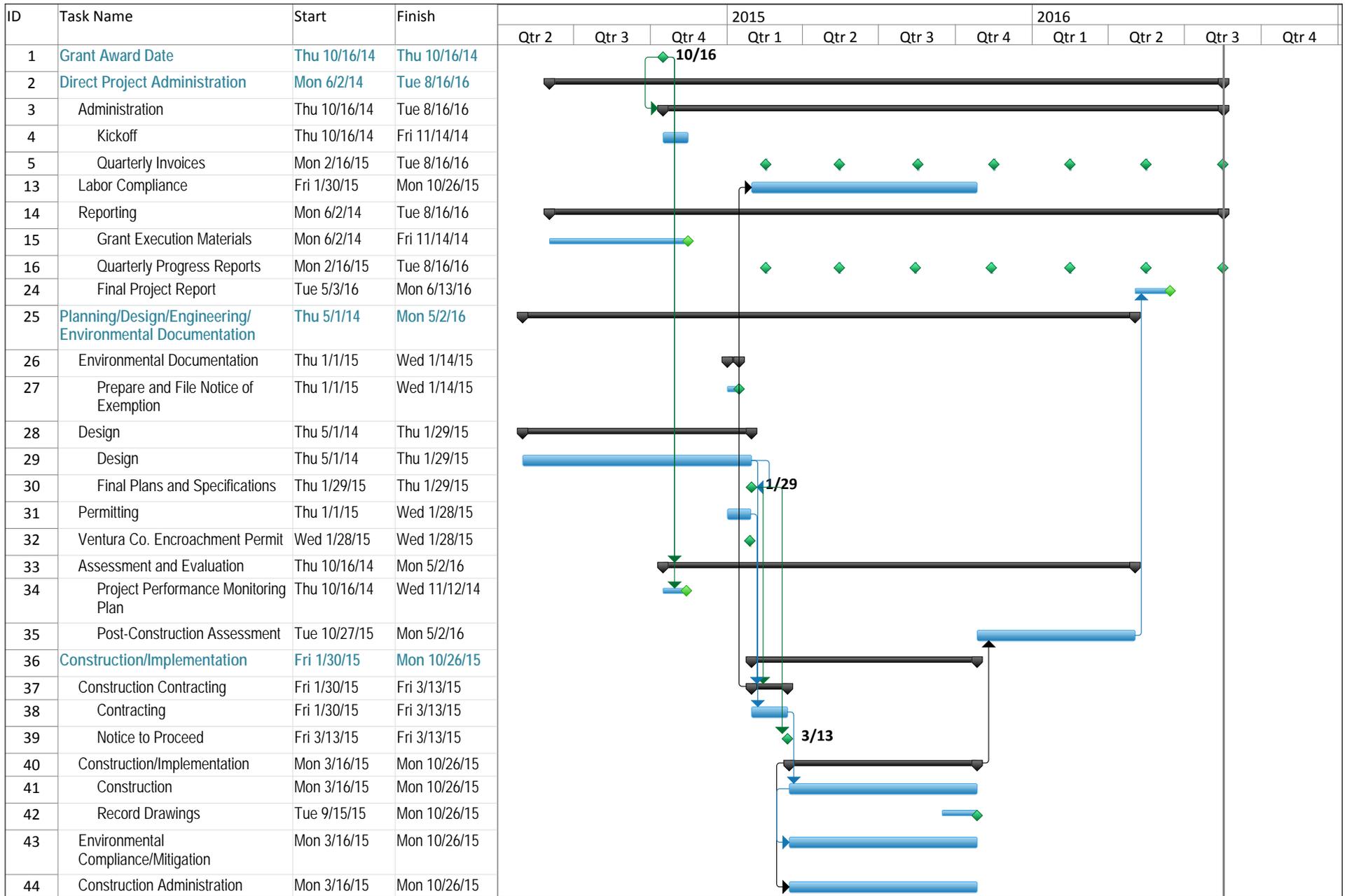
- The land purchase and easement task has already started. The well will be located within property owned by the Pleasant Valley Park & Recreation District, and this agency is amenable to granting an easement to Camrosa.
- Given the nature of the project site, CEQA documentation is expected to be a straightforward Initial Study and Negative Declaration. CEQA will not be a lengthy process.
- Design of the project is well underway. The necessary hydrogeologic studies are done with full well design underway.
- The only permit remaining to be obtained prior to construction (the well drilling permit) is a standard straight-forward permit. After the well is constructed, Camrosa will obtain an amendment to their water supply permit from the California Department of Public Health (CDPH).
- Well construction is a common activity in Ventura County and does not typically present significant construction challenges.

**EL RIO RETROFITS FOR GROUNDWATER RECHARGE**

Ventura County Watershed Protection District (VCWPD) has prepared a detailed schedule for El Rio Retrofits for Groundwater Recharge. The schedule is based on an estimate of time needed to perform each task, and this is derived from the current experience with the pervious pavement and infiltration improvements currently underway at the Ventura County Government Center. Infiltration improvements will be in place by fall 2015 and start collecting, treating, and recharging urban runoff thereafter. The schedule is achievable for the following reasons:

- There are no land purchase or acquisitions needed for the project and therefore land acquisition will not add to the project timetable. It has been determined that the appropriate CEQA document for the project is a Notice of Exemption; no CEQA delays are anticipated. Encroachment permitting for this project is straight-forward and routine.
- Project design is well underway. All site-specific infiltration studies have been completed; 75% plans and specifications are done.





**WATERSHEDS COALITION OF VENTURA COUNTY  
2014 Drought Grant Proposal**

## **GROUNDWATER REPLENISHMENT AND REUSE PROJECT**

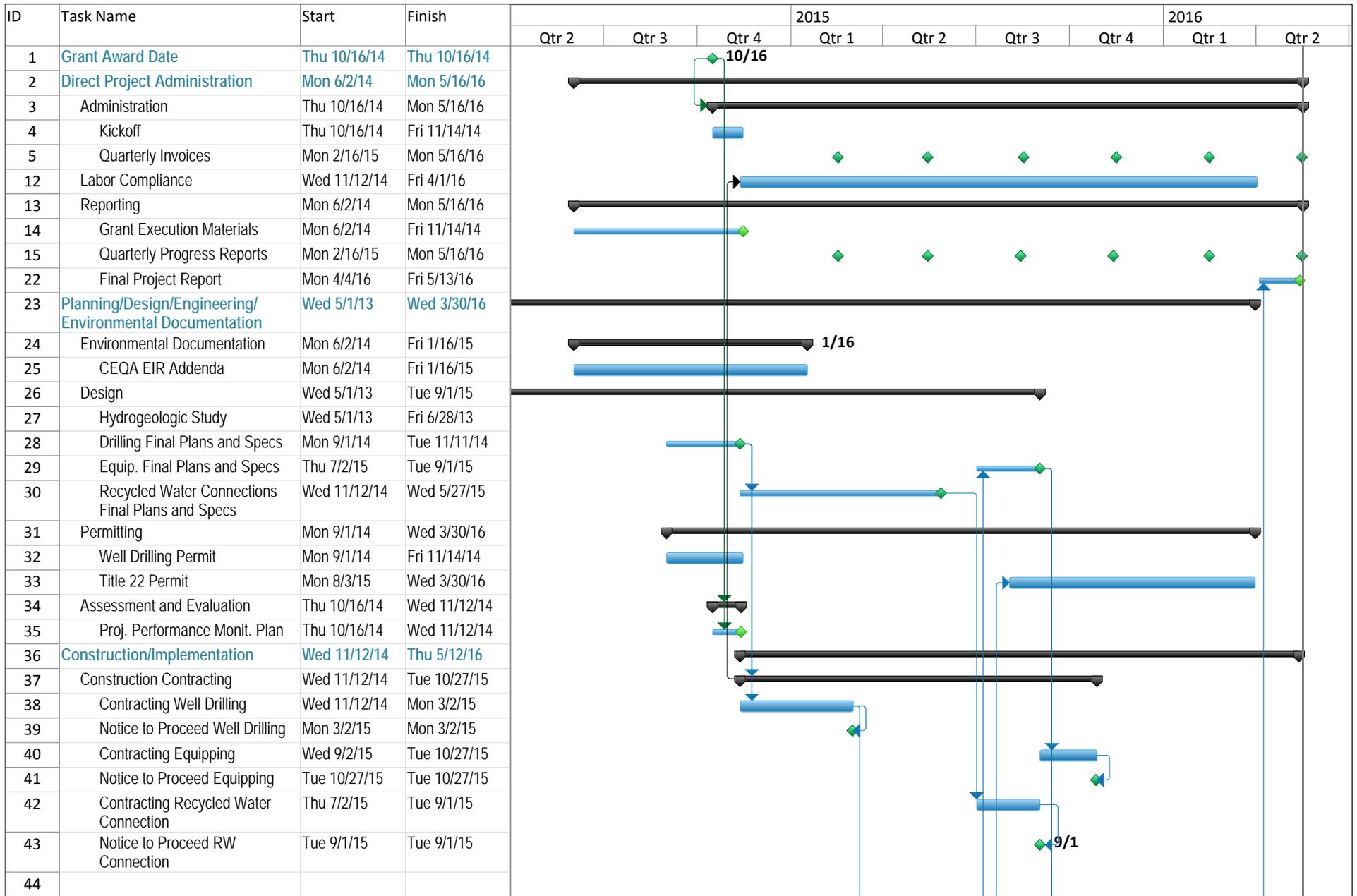
The City of Oxnard (Oxnard) has prepared a detailed schedule for the Groundwater Replenishment and Reuse Project. The project is consistent with CDPH's Drinking Water Program's regulations for groundwater replenishment of aquifers designated for drinking water use (released June 18, 2014). The infrastructure will be in place by spring 2016. The schedule is achievable for the following reasons:

- No delays from land acquisition will be encountered. The project will be constructed within City property. No land purchase or easement acquisition is required to implement this project.
- Major CEQA actions have been completed. The evaluation of operating a recycled water system and recharging recycled water has already been completed.
- Well construction is a common activity in Ventura County and does not typically present significant construction challenges.

## **LAKE CASITAS AERATION**

Casitas Municipal Water District (Casitas) has prepared a detailed schedule for Lake Casitas Aeration; this schedule was developed in coordination with the design engineer and potential vendors. The aeration facilities will be in place by fall 2015 and have an immediate benefit to both drinking water quality and ecosystem health. The schedule is achievable for the following reasons:

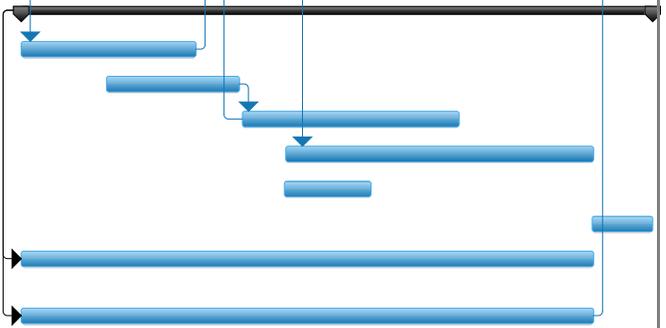
- There are no land purchase or acquisitions needed for the project, and therefore land acquisition will not add to the project timetable.
- Extensive CEQA evaluation will not be necessary; the project is a minor modification to an existing facility and qualifies for a categorical exemption.
- Design parameters were defined in the *Lake Casitas Water Quality Study and Feasibility Study of a Hypolimnetic Oxygenation System for Lake Casitas*, and final design is underway.



Watersheds Coalition of Ventura County  
 2014 Drought Grant Proposal  
 GROUNDWATER REPLENISHMENT AND REUSE PROJECT



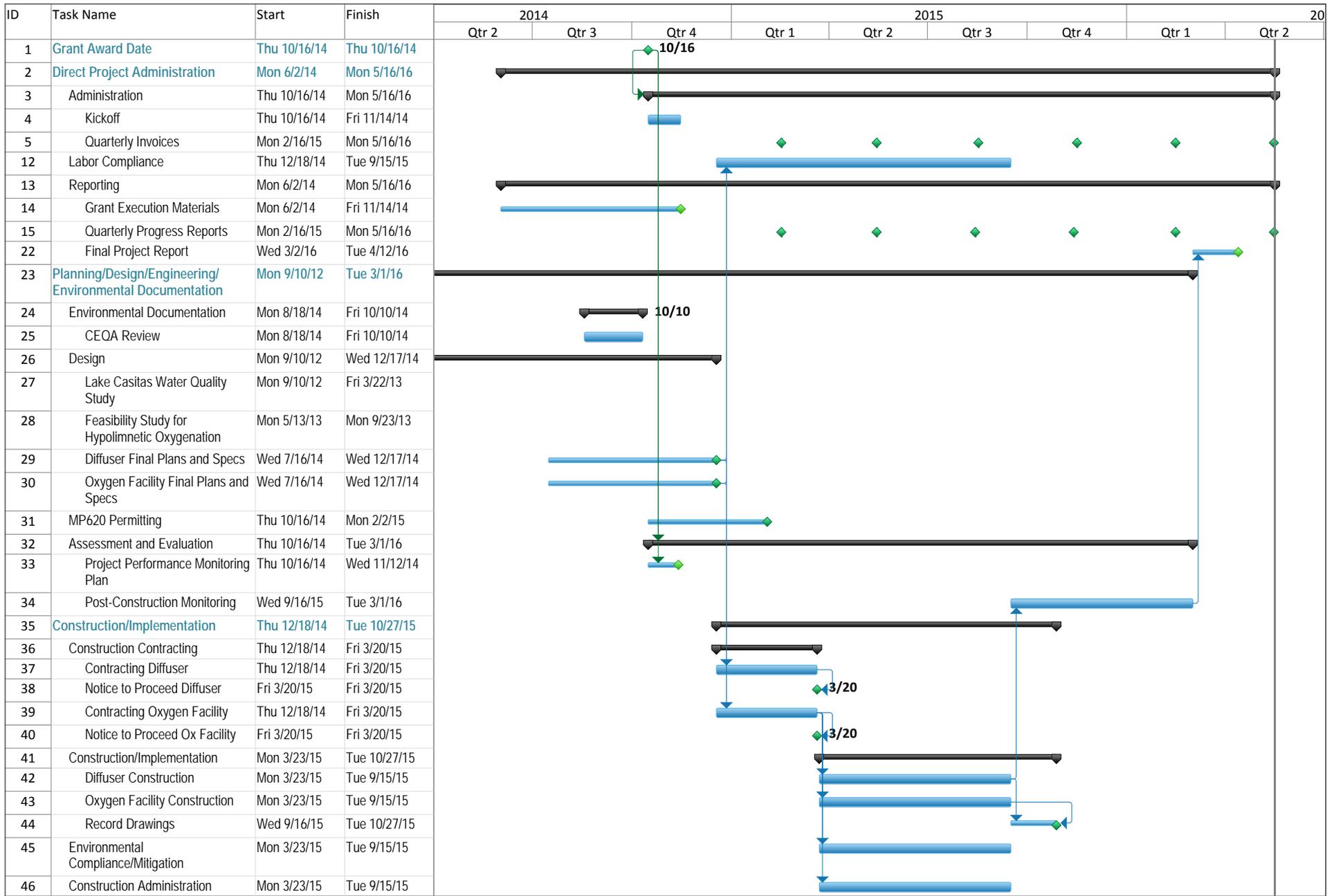
ID	Task Name	Start	Finish	2015				2016					
				Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	
45	Construction/Implementation	Tue 3/3/15	Thu 5/12/16										
46	Drilling and ASR Well Dev.	Tue 3/3/15	Wed 7/1/15										
47	Drill and Install Monitoring Wells	Fri 5/1/15	Fri 7/31/15										
48	Well Testing	Mon 8/3/15	Wed 12/30/15										
49	Equip ASR Well	Wed 9/2/15	Fri 4/1/16										
50	Connect to Recycled Water Sys.	Tue 9/1/15	Fri 10/30/15										
51	Record Drawings	Fri 4/1/16	Thu 5/12/16										
52	Environmental Compliance/Mitigation	Tue 3/3/15	Fri 4/1/16										
53	Construction Administration	Tue 3/3/15	Fri 4/1/16										



Task Project Summary

Milestone Manual Task

Summary



**WATERSHEDS COALITION OF VENTURA COUNTY  
2014 Drought Grant Proposal**

**SAN ANTONIO CREEK ARUNDO REMOVAL**

Ojai Valley Land Conservancy (OVLC) prepared a detailed schedule for San Antonio Creek Arundo Removal. OVLC is a local authority on arundo removal and has significant experience in invasive species removal as well as revegetation within the Ventura River Watershed. OVLC is in a position to develop a reasonable and achievable schedule. Arundo removal will start in early spring 2015 with water savings seen immediately thereafter. To ensure arundo has been successfully removed, monitoring and retreatment for four successive seasons is included. The schedule is achievable for the following reasons:

- Monitoring programs developed for work completed in upstream portions of San Antonio Creek (e.g., *Matilija Dam Giant Reed Removal Plan*) will be used as a reference for this plan. Arundo removal, its techniques, and follow-up treatment protocols are well defined in the Ventura River Watershed.
- OVLC operates its own nursery and will have all the necessary revegetation materials.
- Formal land acquisition is not necessary. OVLC has already identified parcels for arundo removal and is preparing access agreements. Because of the negative aspects of arundo (dense thickets, blockage of river access, fire risk and flood risk), land owners are willing to grant access for arundo removal.

