Merced Integrated Regional Water Management
Merced Region Drought Grant Proposal

Attachment 6:
Schedule

Attachment 6 consists of the following items:

- ✓ **Project Schedules**

  This attachment includes a schedule for implementation of the Proposal showing the sequence and timing of each of the proposed projects.

- ✓ **Proposal Schedule**

  This attachment includes a schedule that briefly summarizes the Proposal's overall schedule.

Detailed schedules for each of the three projects are provided in the following pages. These schedules indicate start dates, end dates and milestones for each of the tasks and linkages/dependences between tasks. In accordance with the PSP, the budget items align with the work tasks described in Attachment 4 – Work Summary and Attachment 5 – Budget, and include the following items:

Category (a): Direct Project Administration

- Task 1: Project Administration
- Task 2: Labor Compliance Program
- Task 3: Reporting

Category (b): Land Purchase/Easement

- Task 4: Land Acquisition

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

- Task 5: Assessment and Evaluation
- Task 6: Final Design
- Task 7: Environmental Documentation
- Task 8: Permitting

Category (d): Construction/Implementation

- Task 9: Construction Contracting
- Task 10: Construction
    - Subtask 10.1 Mobilization and Site Preparation
    - Project Construction
    - Performance Testing and Demobilization
- Task 11: Environmental Compliance/Mitigation/Enhancement
- Task 12: Construction Administration

The schedules presented in this Attachment assume that the proposed projects are funded with a grant effective award date of October 16, 2014.

Project Schedules

Highlands Groundwater Conservation Project

Figure 6-1 below provides a more detailed breakdown of the project schedule.

Project Schedule Description

The project duration associated with the *Highlands Groundwater Conservation Project is* 377 days. The Highlands Groundwater Conservation Project construction award date would occur no later than April 1, 2015.

This breakdown per Budget Category is as follows:

(a) - Direct Project Administration: 377 days

(b) - Land Purchase/Easement: 114 days

(c) - Planning / Design / Engineering / Environmental Documentation: 105 days

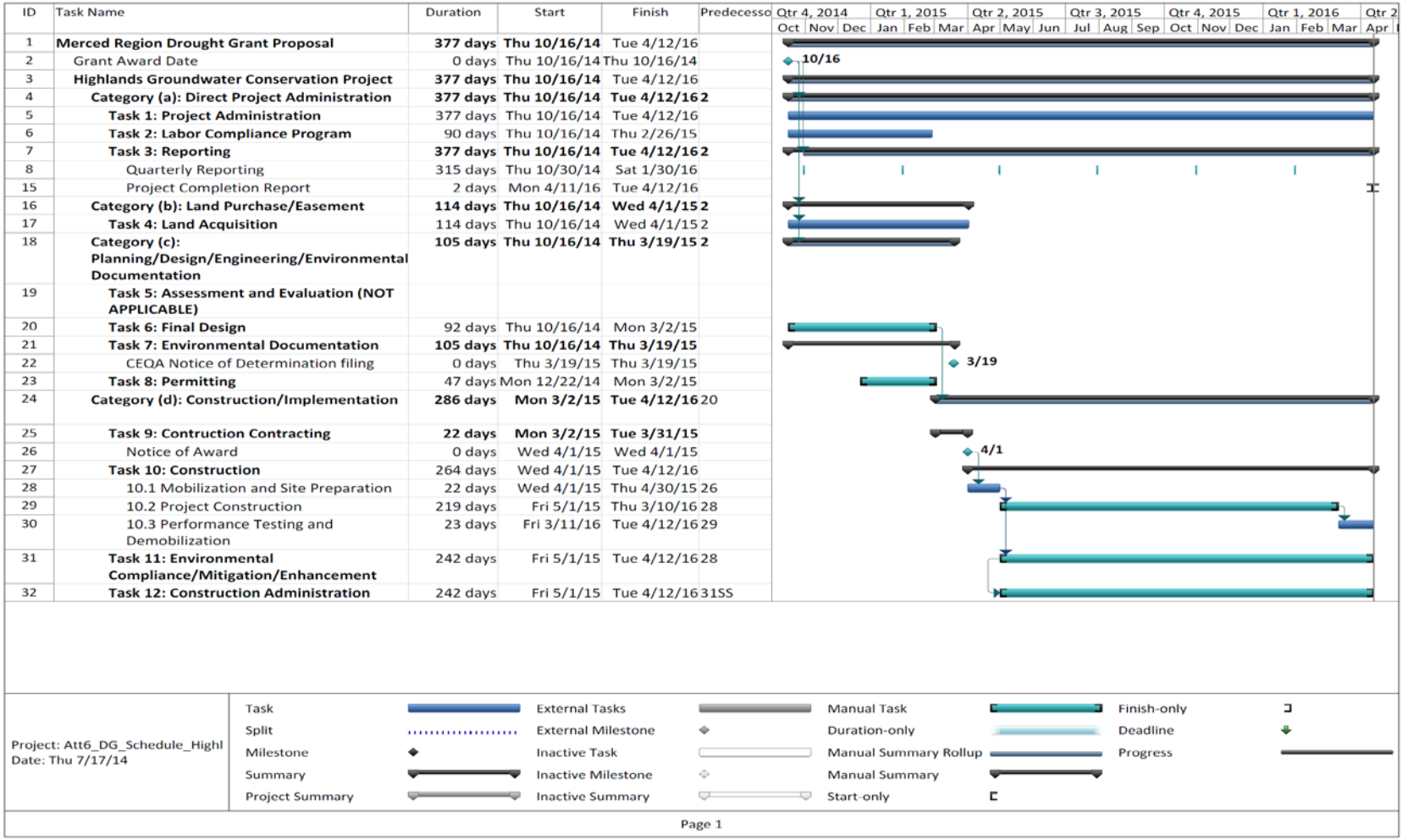
(d) - Construction/Implementation: 286 days

The conceptual design has been completed for the Highlands Groundwater Conservation Project. Upon the grant award, the project would be ready to proceed, and MID would complete the design and environmental compliance quickly so that a Notice of Award would be issued to the selected contractor by April 1, 2015. The Highlands Groundwater Conservation Project is a straightforward design project involving minimal infrastructure (10,500 feet of replaced and/or new pipelines and two modified pump stations). Information related to the existing network of pipelines and the pump stations (e.g., as-builts, and site assessment information) are available to identify constraints and simplify the design of the project. As such, completion of the design and bid documents within approximately 3 months is feasible.

Because all of the pipelines would be located primarily within existing road rights-of-ways, minimal physical environmental impacts are anticipated at the site. A CEQA Initial Study/Mitigated Negative Declaration (IS/MND) would likely be the appropriate level of environmental documentation. An IS/MND can be completed within five months, including the public review process.

Acquisition of easements would occur as soon as possible and through the design phase and to be completed prior to construction of the project. Task 10 (Construction) would extend approximately 264 days, with approximately 42 days for the construction of the trunk sewer line, 105 days for the construction of the laterals, 63 days for the installation of outlet structures and modifications to the pump stations, and 54 days for mobilization and demobilization.

Figure 6-1: Project Schedule –*Highlands Groundwater Conservation Project*



ID	Task Name	Duration	Start	Finish	Predecesso
1	**Merced Region Drought Grant Proposal**	**377 days**	**Thu 10/16/14**	Tue 4/12/16	
2	Grant Award Date	0 days	Thu 10/16/14	Thu 10/16/14	
3	**Highlands Groundwater Conservation Project**	**377 days**	**Thu 10/16/14**	Tue 4/12/16	
4	**Category (a): Direct Project Administration**	**377 days**	**Thu 10/16/14**	**Tue 4/12/16**	2
5	**Task 1: Project Administration**	377 days	Thu 10/16/14	Tue 4/12/16	
6	**Task 2: Labor Compliance Program**	90 days	Thu 10/16/14	Thu 2/26/15	
7	**Task 3: Reporting**	**377 days**	**Thu 10/16/14**	**Tue 4/12/16**	2
8	Quarterly Reporting	315 days	Thu 10/30/14	Sat 1/30/16	
15	Project Completion Report	2 days	Mon 4/11/16	Tue 4/12/16	
16	**Category (b): Land Purchase/Easement**	**114 days**	**Thu 10/16/14**	**Wed 4/1/15**	2
17	**Task 4: Land Acquisition**	114 days	Thu 10/16/14	Wed 4/1/15	2
18	**Category (c): Planning/Design/Engineering/Environmental Documentation**	**105 days**	**Thu 10/16/14**	**Thu 3/19/15**	2
19	**Task 5: Assessment and Evaluation (NOT APPLICABLE)**				
20	**Task 6: Final Design**	92 days	Thu 10/16/14	Mon 3/2/15	
21	**Task 7: Environmental Documentation**	**105 days**	**Thu 10/16/14**	**Thu 3/19/15**	
22	CEQA Notice of Determination filing	0 days	Thu 3/19/15	Thu 3/19/15	
23	**Task 8: Permitting**	47 days	Mon 12/22/14	Mon 3/2/15	
24	**Category (d): Construction/Implementation**	**286 days**	**Mon 3/2/15**	**Tue 4/12/16**	20
25	**Task 9: Contruction Contracting**	**22 days**	**Mon 3/2/15**	**Tue 3/31/15**	
26	Notice of Award	0 days	Wed 4/1/15	Wed 4/1/15	
27	**Task 10: Construction**	264 days	Wed 4/1/15	Tue 4/12/16	
28	10.1 Mobilization and Site Preparation	22 days	Wed 4/1/15	Thu 4/30/15	26
29	10.2 Project Construction	219 days	Fri 5/1/15	Thu 3/10/16	28
30	10.3 Performance Testing and Demobilization	23 days	Fri 3/11/16	Tue 4/12/16	29
31	**Task 11: Environmental Compliance/Mitigation/Enhancement**	242 days	Fri 5/1/15	Tue 4/12/16	28
32	**Task 12: Construction Administration**	242 days	Fri 5/1/15	Tue 4/12/16	31SS

Cressey Recharge Basin Enlargement Project

Figure 6-2 below provides a more detailed breakdown of the project schedule.

Project Schedule Description

The *Cressey Recharge Basin Enlargement Project* is expected to take 336 days to implement. The construction award date would occur no later than April 1, 2015.

This breakdown per Budget Category is as follows:

(a) - Direct Project Administration: 336 days

(b) - Land Purchase/Easement: Not Applicable

(c) - Planning / Design / Engineering / Environmental Documentation: 95 days

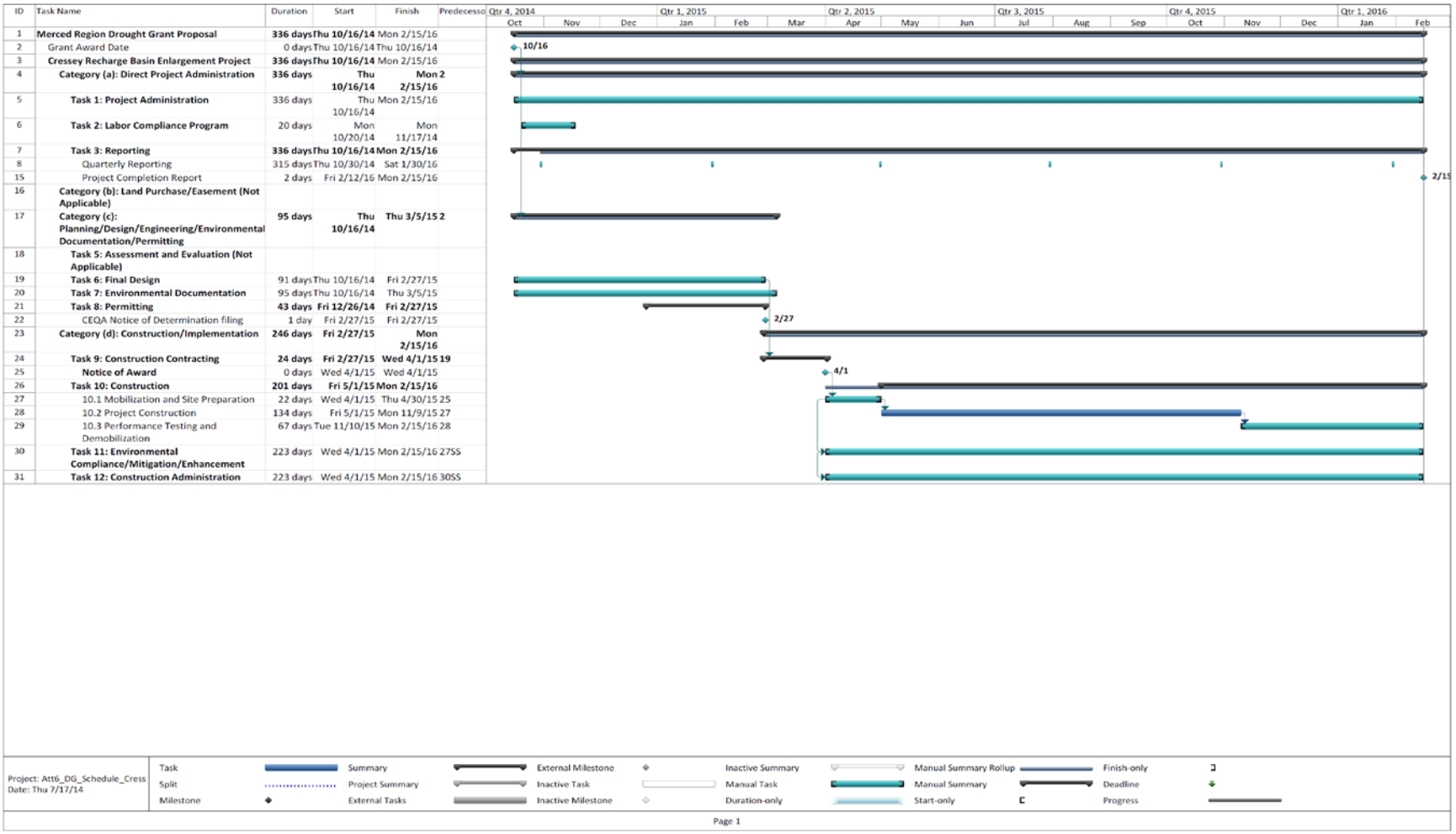
(d) - Construction/Implementation: 246 days

The conceptual design and implementation of a pilot program have been completed. Upon the award date, the project would be ready to proceed, and MID would complete the design and environmental compliance quickly so that a Notice of Award would be issued to the selected contractor by April 1, 2015. The Cressey Recharge Basin Enlargement Project is a straightforward project to enlarge the existing Cressey basin from 8 acres (existing) to 13 acres (planned). Information on the existing basin (e.g., site assessment information) is available to identify constraints and simplify the design of the project. As such, completion of the design and bid documents within approximately 3 months is feasible.

A CEQA IS/MND would likely be the appropriate level of environmental documentation. An IS/MND can be completed within four to five months, including the public review process.

No land purchase or easement acquisition is required for the proposed project. Task 10 (Construction) would require approximately 201 days, with approximately 42 days for the earthwork construction of the basin, 84 days to install/update the SCADA system, 42 days for performance testing, and 33 days for mobilization and demobilization.

Figure 6-2: Project Schedule – *Cressey Recharge Basin Enlargement*



ID	Task Name	Duration	Start	Finish	Predecesso
1	**Merced Region Drought Grant Proposal**	**336 days**	**Thu 10/16/14**	Mon 2/15/16	
2	Grant Award Date	0 days	Thu 10/16/14	Thu 10/16/14	
3	**Cressey Recharge Basin Enlargement Project**	**336 days**	**Thu 10/16/14**	Mon 2/15/16	
4	**Category (a): Direct Project Administration**	**336 days**	**Thu 10/16/14**	**Mon 2/15/16**	2
5	**Task 1: Project Administration**	336 days	Thu 10/16/14	Mon 2/15/16	
6	**Task 2: Labor Compliance Program**	20 days	Mon 10/20/14	Mon 11/17/14	
7	**Task 3: Reporting**	**336 days**	**Thu 10/16/14**	**Mon 2/15/16**	
8	Quarterly Reporting	315 days	Thu 10/30/14	Sat 1/30/16	
15	Project Completion Report	2 days	Fri 2/12/16	Mon 2/15/16	
16	**Category (b): Land Purchase/Easement (Not Applicable)**				
17	**Category (c): Planning/Design/Engineering/Environmental Documentation/Permitting**	**95 days**	**Thu 10/16/14**	**Thu 3/5/15**	2
18	**Task 5: Assessment and Evaluation (Not Applicable)**				
19	**Task 6: Final Design**	91 days	Thu 10/16/14	Fri 2/27/15	
20	**Task 7: Environmental Documentation**	95 days	Thu 10/16/14	Thu 3/5/15	
21	**Task 8: Permitting**	**43 days**	**Fri 12/26/14**	**Fri 2/27/15**	
22	CEQA Notice of Determination filing	1 day	Fri 2/27/15	Fri 2/27/15	
23	**Category (d): Construction/Implementation**	**246 days**	**Fri 2/27/15**	**Mon 2/15/16**	
24	**Task 9: Construction Contracting**	**24 days**	**Fri 2/27/15**	**Wed 4/1/15**	19
25	**Notice of Award**	0 days	Wed 4/1/15	Wed 4/1/15	
26	**Task 10: Construction**	**201 days**	**Fri 5/1/15**	**Mon 2/15/16**	
27	10.1 Mobilization and Site Preparation	22 days	Wed 4/1/15	Thu 4/30/15	25
28	10.2 Project Construction	134 days	Fri 5/1/15	Mon 11/9/15	27
29	10.3 Performance Testing and Demobilization	67 days	Tue 11/10/15	Mon 2/15/16	28
30	**Task 11: Environmental Compliance/Mitigation/Enhancement**	223 days	Wed 4/1/15	Mon 2/15/16	27SS
31	**Task 12: Construction Administration**	223 days	Wed 4/1/15	Mon 2/15/16	30SS

Water Meter Conservation Project

Figure 6-3 below provides a more detailed breakdown of the project schedule.

Project Schedule Description

Implementation of the *Water Meter Conservation* project would require approximately 211 days. The construction award date would occur no later than April 1, 2015.

This breakdown per Budget Category is as follows:

(a) - Direct Project Administration: 211 days

(b) - Land Purchase/Easement: Not Applicable

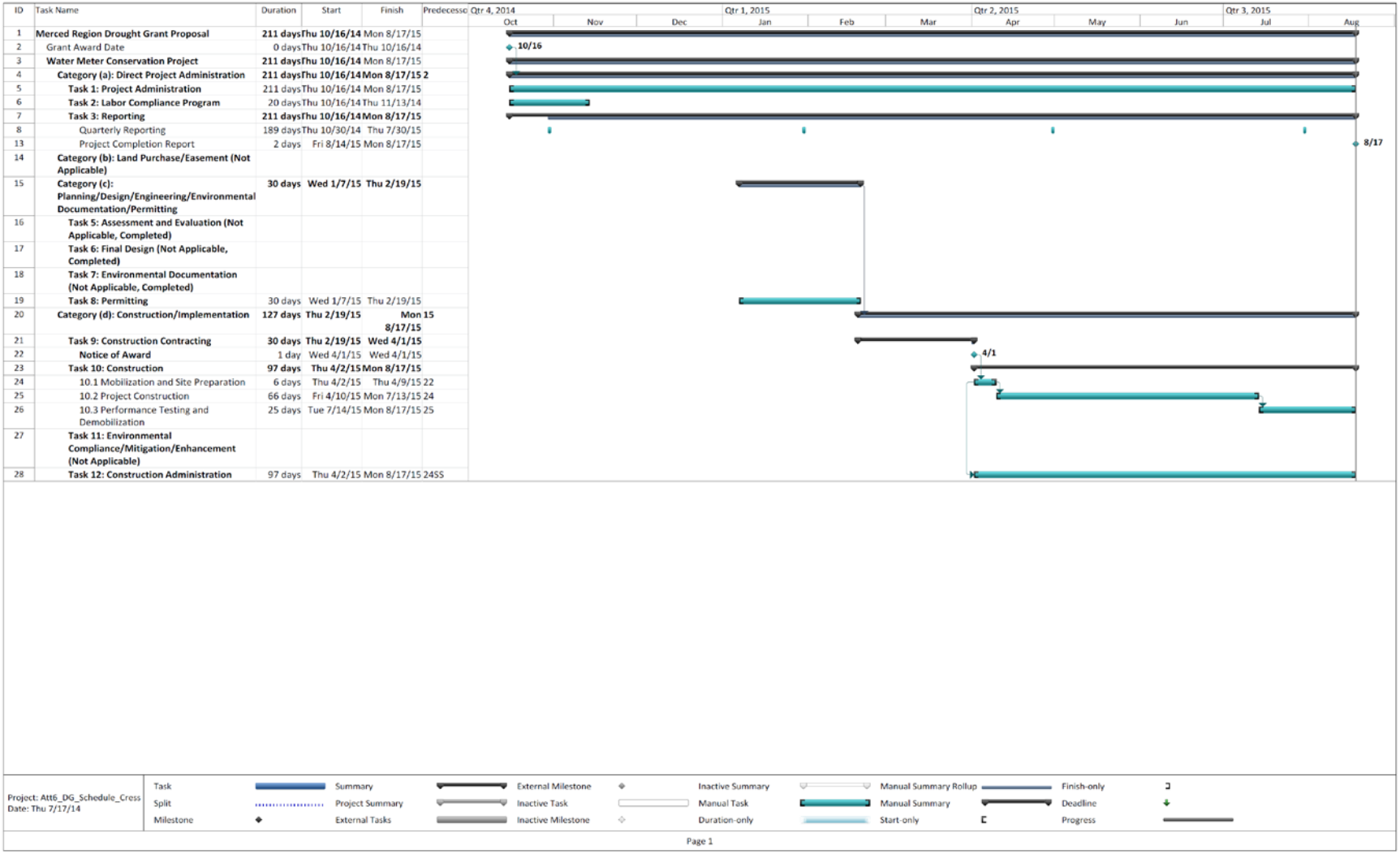
(c) - Planning / Design / Engineering / Environmental Documentation: 30 days

(d) - Construction/Implementation: 127 days

Upon the award date, this project would be shovel ready with a completed design. The environmental compliance would have been completed prior to the Notice of Award to be issued on April 1, 2015. The Water Meter Conservation Project is a straightforward project that involves installing water meters 525 new meters and transmitter equipment in the County of Le Grand.

No land purchase or easement acquisition is required for the proposed project. Task 10 (Construction) would require approximately 97 days, including approximately 63 days to install the meters, 21 days for training, and 13 days for mobilization and demobilization.

Figure 6-3: Project Schedule – *Water Meter Conservation Project*



ID	Task Name	Duration	Start	Finish	Predecesso
1	**Merced Region Drought Grant Proposal**	**211 days**	**Thu 10/16/14**	Mon 8/17/15	
2	Grant Award Date	0 days	Thu 10/16/14	Thu 10/16/14	
3	**Water Meter Conservation Project**	**211 days**	**Thu 10/16/14**	Mon 8/17/15	
4	**Category (a): Direct Project Administration**	**211 days**	**Thu 10/16/14**	**Mon 8/17/15**	2
5	**Task 1: Project Administration**	211 days	Thu 10/16/14	Mon 8/17/15	
6	**Task 2: Labor Compliance Program**	20 days	Thu 10/16/14	Thu 11/13/14	
7	**Task 3: Reporting**	**211 days**	**Thu 10/16/14**	**Mon 8/17/15**	
8	Quarterly Reporting	189 days	Thu 10/30/14	Thu 7/30/15	
13	Project Completion Report	2 days	Fri 8/14/15	Mon 8/17/15	
14	**Category (b): Land Purchase/Easement (Not Applicable)**				
15	**Category (c): Planning/Design/Engineering/Environmental Documentation/Permitting**	**30 days**	**Wed 1/7/15**	**Thu 2/19/15**	
16	**Task 5: Assessment and Evaluation (Not Applicable, Completed)**				
17	**Task 6: Final Design (Not Applicable, Completed)**				
18	**Task 7: Environmental Documentation (Not Applicable, Completed)**				
19	**Task 8: Permitting**	30 days	Wed 1/7/15	Thu 2/19/15	
20	**Category (d): Construction/Implementation**	**127 days**	**Thu 2/19/15**	**Mon 8/17/15**	15
21	**Task 9: Construction Contracting**	**30 days**	**Thu 2/19/15**	**Wed 4/1/15**	
22	**Notice of Award**	1 day	Wed 4/1/15	Wed 4/1/15	
23	**Task 10: Construction**	**97 days**	**Thu 4/2/15**	**Mon 8/17/15**	
24	10.1 Mobilization and Site Preparation	6 days	Thu 4/2/15	Thu 4/9/15	22
25	10.2 Project Construction	66 days	Fri 4/10/15	Mon 7/13/15	24
26	10.3 Performance Testing and Demobilization	25 days	Tue 7/14/15	Mon 8/17/15	25
27	**Task 11: Environmental Compliance/Mitigation/Enhancement (Not Applicable)**				
28	**Task 12: Construction Administration**	97 days	Thu 4/2/15	Mon 8/17/15	24SS

Proposal Schedule

The proposal schedule shown in **Figure 6-4** summarizes the schedule for each proposed project that would be implemented as part of this proposal. The following projects are summarized in the figure below:

- Highlands Groundwater Conservation Project
- Cressey Recharge Basin Enlargement Project
- Water Meter Conservation Project

As shown in this figure, all proposed projects would begin construction prior to April 1, 2015. Implementation of the entire proposal would be expected to be complete within approximately one year.

Figure 6-4: Proposal Schedule