

## Attachment 5: Schedule

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### Schedule

Detailed schedules for the Proposal and each of the individual projects are provided on the following pages. The schedules show the sequence and timing of work items presented in the Proposal and assumes the effective Grant Award Date to be January 1, 2016. Project-specific schedules include start dates, end dates, and milestones for each work task contained in Attachment 3, Work Plan, and when applicable, dependencies are also shown. The project schedules are consistent with both, the Work Plan and Budget.

### Proposal Schedule

All projects in this proposal are scheduled to start Construction/Implementation by April 1, 2016 and all projects will complete Construction/Implementation by October 31, 2019. Project schedules include time for submittal of final quarterly invoices and progress reports, which are anticipated to be submitted in the quarter immediately following project completion. Draft final project completion reports will be submitted no later than 90 days after project completion and are anticipated to be finalized within approximately 90 days of first submittal.

Attachment 5 - Schedule  
 Regional Water Management Foundation  
 SantaCruz IRWM 2015 Implementation Grant Application

ID	Task Name	Duration	Start	Finish	2014				2015				2016				2017				2018					
					Qtr 1	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	Qtr 4	Qtr 1	Qtr 2	Qtr 3			
1	DWR Award	0 days	Fri 1/1/16	Fri 1/1/16																						
2	Project 1: Tait Wells Replacement	2957 days	Sun 1/1/06	Mon 5/1/17	[Gantt bar from Q1 2014 to Q4 2017]																					
3	Project 2: Bonita Hexavalent Chromium Treatment Facility	1566 days	Tue 8/9/11	Tue 8/8/17	[Gantt bar from Q3 2014 to Q4 2017]																					
4	Project 3: Davenport Recycled Water Plant	851 days	Thu 1/1/15	Thu 4/5/18	[Gantt bar from Q1 2015 to Q3 2018]																					
5	Project 4: Grant Administration	797 days	Mon 6/15/15	Fri 7/5/18	[Gantt bar from Q3 2015 to Q3 2018]																					

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 1: Tait Wells Replacement Schedule Description

The City has prepared a detailed schedule for the Tait Wells Replacement project identifying tasks associated with each major component, namely the drilling and commissioning of Tait Wells 1b and 3b and the rehabilitation of Tait Well 4. The City has examined the grant tasks and deliverables in light of experience on the previous work completed in support of this project. Well feasibility studies were completed in 2009 and design is underway and will be completed by the end of 2015 in alignment with anticipated grant award in early 2016. Bidding for well construction is scheduled for early 2016 with construction award by the end of March 2016. Well drilling, construction and rehabilitation will start in April 2016 and be completed in August 2016. Installation of mechanical/electrical equipment at the wells will be completed by December 2016. The schedule is achievable for the following reasons:

- Substantive planning work was completed on the Tait Well Replacement project from 2006 and 2009, which greatly streamlines the well design, construction, and implementation tasks. Investigation of rehabilitation of the wells and associated infrastructure was initiated in 2002. The Alternative Evaluation Report Tait Street Diversion prepared by Wood Rogers in 2009 discussed the benefits of replacing the two existing wells to restore the historical capacity of the Tait Wells production. Planning for this project was accelerated in 2014 and the winter and spring of 2015, as well conditions indicated the possibility of failure, which coincided with the occurrence of a second critically dry year.
- Construction needs are well understood because the draft Basis of Design (BOD) was developed in 2014 for the replacement of the Tait Well No.1 and has been extended to Tait Well 3. The draft BOD presents the basis for the well construction specifications and bid documents; the purpose and background for the project; permitting requirements and responsibilities; operational plans for the replacement well; the well design criteria; the preliminary well design; proposed well drilling and well construction methods; plans for cutting and fluid handling and disposal; a discussion regarding logistics issues associated with the well construction project; estimate of contractor costs; and a preliminary schedule for the well construction project and activation of the well. The replacement of Tait Well No.1 with Tait Well No.1b was on schedule for drilling in summer 2014, but progress slowed when easement issues arose and well drillers responded to requests for bids by stating that they are in high demand. Purchase orders have been opened to fund the BOD, surveying, and environmental documentation. In August, the Council will receive a staff report to approve contracts to fund design, civil and electrical engineering and preparation of construction bid documents for the new wells.
- Tait Well No. 1b is proposed to be installed approximately 10 feet from the existing site of Tait Well No. 1. The relatively close proximity of new Tait Well No. 1b to the old Tait Well No.1 will enable the City to use the existing power and SCADA infrastructure and will minimize the amount of new well head and supply line infrastructure necessary to bring Tait Well No.1b online.
- Tait Well No.3b has not been designed. Given the similar design work performed for the Tait Well No.1b Well, there is high confidence that task durations for completing the final BOD for both wells are reasonable and achievable. Site survey will be performed in August 2015 to obtain easement, in parallel with hydrogeologist design of the wells. Tait Well No. 4 rehabilitation workplan development will be developed by the hydrogeologist based on long-term observation of well production decline in conjunction with a recent video inspection.
- Environmental documents were developed for CEQA for Tait Well No.1 replacement, resulting in an Initial Study and Negative Declaration for Tait Well No.1b. The CEQA process will commence for Tait Well No. 3b in July 2015 and should be complete by mid-December 2015, when the design documentation for Tait Well No.1b and Tait Well. No.3b is finalized

by the hydrogeologist. The City is proceeding with environmental documentation anticipating Categorical Exemption status for Tait Well No. 3b. Tait Well No. 4 rehabilitation requires limited CEQA effort as it is categorically exempt from CEQA.

- Well drilling is standard practice and construction is expected to be technically feasible. Preparation to construct the wells is anticipated to start in April 2016. Once the contracts are awarded, it is expected to take up to three months prior to commencing with drilling the wells. It will take approximately two weeks of full-time (24-hours per day) construction activities per well. Well development, testing, and instrumentation will last an additional week per well. Well rehabilitation is expected to take approximately one week. The civil, mechanical and electrical work associated with Tait Well Nos. 1b and 3b will be completed by December 2016, enabling water supply production from the wells to start by the end of 2016.

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ID	Task Name	Duration	Start	Finish	2015				2016						
					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1		
1	<b>Project 1: Tait Wells Replacement</b>	<b>2956 days</b>	<b>Sun 1/1/06</b>	<b>Mon 5/1/17</b>											
2	<b>Budget Category A: Direct Project Administration</b>	<b>345 days</b>	<b>Tue 1/5/16</b>	<b>Mon 5/1/17</b>											
3	<b>Task 1: Project Management</b>	<b>280 days</b>	<b>Tue 1/5/16</b>	<b>Mon 1/30/17</b>											
4	Provide Grant Agreement Materials	41 days	Tue 1/5/16	Tue 3/1/16											
5	Quarterly Invoicing	217 days	Fri 4/1/16	Mon 1/30/17											
10	<b>Task 2: Labor Compliance</b>	<b>280 days</b>	<b>Tue 1/5/16</b>	<b>Mon 1/30/17</b>											
11	<b>Task 3: Reporting</b>	<b>345 days</b>	<b>Tue 1/5/16</b>	<b>Mon 5/1/17</b>											
12	Prepare Progress Report Template	41 days	Tue 1/5/16	Tue 3/1/16											
13	Quarterly Progress Reports	217 days	Fri 4/1/16	Mon 1/30/17											
14	Project Completion Report	66 days	Mon 1/30/17	Mon 5/1/17											
15	<b>Budget Category B: Land Purchase/Easement</b>	<b>74 days</b>	<b>Fri 8/28/15</b>	<b>Wed 12/9/15</b>											
16	<b>Task 4 - Land Purchase</b>	<b>74 days</b>	<b>Fri 8/28/15</b>	<b>Wed 12/9/15</b>											
17	Site Survey for Tait 3b	10 days	Fri 8/28/15	Thu 9/10/15											
18	Legal Description and Exhibit for Appraisal for Tait 3b	15 days	Fri 9/11/15	Thu 10/1/15											
19	Complete Easement Negotiation w/ Property Owners for Tait 3b	40 days	Thu 10/15/15	Wed 12/9/15											
20	<b>Budget Category C: Planning/Design/Engineering/Environmental Documentation</b>	<b>2891 days</b>	<b>Sun 1/1/06</b>	<b>Mon 1/30/17</b>											
21	<b>Task 5: Feasibility Studies</b>	<b>1045 days</b>	<b>Sun 1/1/06</b>	<b>Thu 12/31/09</b>											
22	<b>Task 6: CEQA Documentation</b>	<b>392 days</b>	<b>Sun 6/15/14</b>	<b>Tue 12/15/15</b>											
23	Notice of Exemption for Tait 1B	46 days	Sun 6/15/14	Fri 8/15/14											
24	CEQA For Tait 3B (IS/Cat Ex or MND) and Tait 4 Rehab (Exemption)	110 days	Wed 7/15/15	Tue 12/15/15											
32	<b>Task 7: Permitting</b>	<b>319 days</b>	<b>Wed 11/11/15</b>	<b>Mon 1/30/17</b>											
33	SCCounty Environmental Health Well Drilling Permit For Tait 1b and 3b & RWQCB Notification of project discharges NPDES permit	60 days	Wed 11/11/15	Tue 2/2/16											
34	Division of Drinking Water Supply Permit Amendment for Tait Well 1b and 3b	20 days	Tue 1/3/17	Mon 1/30/17											
35	<b>Task 8: Design</b>	<b>117 days</b>	<b>Wed 7/15/15</b>	<b>Thu 12/24/15</b>											
36	Execute Prof. Service Agreements for Hydrogeologist and Civil/Electrical	20 days	Wed 7/15/15	Tue 8/11/15											
37	Develop BOD for Well and Sites	15 days	Wed 8/12/15	Tue 9/1/15											
38	80% Design for Wells including Well Specifications including City Review	37 days	Wed 9/2/15	Thu 10/22/15											
39	100% Well Documents	11 days	Fri 10/23/15	Fri 11/6/15											
40	60% Plans and Specifications for Civil Site Plan and Mechanical/Electrical Equipment including City Review	33 days	Tue 9/15/15	Thu 10/29/15											
41	100% Plans and Specifications for Civil and Mechanical/Electrical Equipment including City Review and County Encroachment Permit Review	6 wks	Fri 10/30/15	Thu 12/10/15											
42	Bid Set for Civil and Mechanical/Electrical	10 days	Fri 12/11/15	Thu 12/24/15											
43	<b>Task 9: Project Performance Monitoring Plan</b>	<b>41 days</b>	<b>Tue 1/5/16</b>	<b>Tue 3/1/16</b>											

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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					Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1
44	<b>Budget Category D: Construction/Implementation</b>	<b>257 days</b>	<b>Fri 1/8/16</b>	<b>Mon 1/2/17</b>									
45	<b>Task 10: Contract Services</b>	<b>56 days</b>	<b>Fri 1/8/16</b>	<b>Fri 3/25/16</b>									
46	City Council Approval to Bid and Construct	1 day	Fri 1/8/16	Fri 1/8/16									
47	Obtain Bids from Drilling and General Contractors	25 days	Mon 1/11/16	Fri 2/12/16									
48	Award and NTP for Construction	30 days	Mon 2/15/16	Fri 3/25/16									
49	<b>Task 11: Construction Administration</b>	<b>201 days</b>	<b>Mon 3/28/16</b>	<b>Mon 1/2/17</b>									
50	Drill Wells	126 days	Mon 3/28/16	Mon 9/19/16									
51	Submittals	3 wks	Mon 3/28/16	Fri 4/15/16									
52	Oversight/Inspection for Well Drilling, Pump Testing, and Completion	52 days	Sun 7/10/16	Mon 9/19/16									
53	Civil/Mechanical/Electrical	201 days	Mon 3/28/16	Mon 1/2/17									
54	Equipment Submittals	3 wks	Mon 3/28/16	Fri 4/15/16									
55	Oversight/Inspection for Earthwork, Utility and Electrical Work	145 days	Tue 6/14/16	Mon 1/2/17									
56	Start up and Commissioning	10 days	Tue 11/22/16	Mon 12/5/16									
57	<b>Task 12: CONSTRUCTION</b>	<b>201 days</b>	<b>Mon 3/28/16</b>	<b>Mon 1/2/17</b>									
58	Drill Wells	111 days	Mon 4/18/16	Mon 9/19/16									
59	3-month Lead Time for Driller	3 mons	Mon 4/18/16	Fri 7/8/16									
60	Task 12a: Mobilize	5 days	Mon 7/11/16	Fri 7/15/16									
61	Task 12b: Rough Grading/Site Prep	10 days	Mon 7/18/16	Fri 7/29/16									
62	Task 12c: Tait Well 1B	20 days	Tue 7/12/16	Mon 8/8/16									
65	Task 12c: Tait Well 3B	20 days	Tue 8/9/16	Mon 9/5/16									
68	Task 12c: Rehab Tait 4	5 days	Tue 9/6/16	Mon 9/12/16									
69	Task 12a: Demobilize	5 days	Tue 9/13/16	Mon 9/19/16									
70	Civil, Mechanical, Electrical Work	201 days	Mon 3/28/16	Mon 1/2/17									
71	Order Submersible Pumps	2 mons	Tue 9/6/16	Mon 10/31/16									
72	Task 12b: Grading Site Work	10 days	Tue 9/20/16	Mon 10/3/16									
73	Task 12c: Construct Pedestals Concrete Pads, and Cure	15 days	Tue 10/4/16	Mon 10/24/16									
74	Task 12c: Construct 6-inch Water Line to Tait 3B and Station Piping	9 days	Tue 10/25/16	Fri 11/4/16									
75	Task 12c: Equip Well With Submersible and Column Piping	4 days	Tue 11/1/16	Fri 11/4/16									
76	Task 12c: Set RTU and Controls	15 days	Mon 9/5/16	Fri 9/23/16									
77	Task 12c: PG&E Power Drop	5 days	Mon 9/26/16	Fri 9/30/16									
78	Task 12c: Commission Wells	15 days	Mon 9/26/16	Fri 10/14/16									
79	Task 12c: Fence Site and Cleanup	10 days	Mon 10/17/16	Fri 10/28/16									
80	Monitor for Permit Compliance, Permit Recording	180 days	Mon 3/28/16	Fri 12/2/16									
81	Close Out Permits	21 days	Mon 12/5/16	Mon 1/2/17									

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: Bonita Hexavalent Chromium Treatment Facility

Soquel Creek Water District (SqCWD) has prepared a detailed schedule for the Bonita Hexavalent Chromium Treatment Facility. SqCWD prepared the schedule based on the tasks necessary to complete the replacement of the pumps and motors at the Seascape, Bonita, and San Andreas Wells, construction of the raw water pipeline, site preparation, grading and construction of the Bonita Hexavalent Chromium Treatment Facility that treats the water from three wells. The task durations were reviewed by a consultant to verify that estimated dates were reasonable for the project.

The schedule is achievable given that:

- No land purchase is required to complete the project.
- Feasibility Studies to evaluate treatment technologies were initiated in 2011 and completed such that a demonstration treatment plant that uses the preferred technology, Strong Base Anion Exchange, has been in operation since 2014 and is permitted for use to produce valuable drinking water.
- The CEQA document has been prepared and circulated and the Notice of Determination is scheduled for filing in September 2015.
- The implementation is phased such that minimal time is wasted in completing the project. For example, the full-scale Strong Base Anion Exchange equipment is a long-lead time item. Therefore equipment procurement is the first element of the project with procurement documents issued in September 2015 with the award of the equipment procurement to be completed by April 2016.
- Other project elements include the rehabilitation of the Seascape Well and the raw water pipeline which are needed to deliver water to the demonstration treatment plant so that demands can be met while the Bonita Treatment Facility is under construction. The raw water pipeline is to be constructed in existing street rights of way using open trench construction. The raw water pipeline element is scheduled for award in February 2016 while the Seascape Well upgrade element is scheduled for award in February 2016.
- The replacement of the well pumps and motors at the three wells, to overcome head losses associated with the additional raw water pipeline and treatment plant filters, is anticipated to be a straightforward effort as the increase in horsepower is nominal.

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ID	Task Name	Duration	Start	Finish	2014				2015				2016				2017				2018			
					Qtr 1	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	Qtr 4	Qtr 1	Qtr 2		
1	<b>Project 2: Bonita Hexavalent Chromium Treatment Facility</b>	<b>1566 days</b>	<b>Tue 8/9/11</b>	<b>Tue 8/8/17</b>																				
2	<b>Budget Category A: Direct Project Management</b>	<b>462 days</b>	<b>Mon 11/2/15</b>	<b>Tue 8/8/17</b>																				
3	<b>Task 1: Project Management</b>	<b>396 days</b>	<b>Mon 11/2/15</b>	<b>Mon 5/8/17</b>																				
4	Provide Grant Agreement Materials	21 days	Mon 11/2/15	Mon 1/18/16																				
5	Quarterly Invoicing	287 days	Fri 4/1/16	Mon 5/8/17																				
12	<b>Task 2: Labor Compliance Program</b>	<b>350 days</b>	<b>Tue 1/5/16</b>	<b>Mon 5/8/17</b>																				
13	<b>Task 3: Reporting</b>	<b>418 days</b>	<b>Fri 1/1/16</b>	<b>Tue 8/8/17</b>																				
14	Prepare Progress Report Template	41 days	Tue 1/5/16	Tue 3/1/16																				
15	Quarterly Progress Reports	287 days	Fri 4/1/16	Mon 5/8/17																				
22	Project Completion Report	67 days	Mon 5/8/17	Tue 8/8/17																				
23	<b>Budget Category B: Land Purchase/Easement</b>	<b>0 days</b>	<b>Fri 1/1/16</b>	<b>Fri 1/1/16</b>																				
24	<b>Budget Category C: Planning/Design/Engineering/Environmental Documentation</b>	<b>1501 days</b>	<b>Tue 8/9/11</b>	<b>Tue 5/9/17</b>																				
25	<b>Task 5: Feasibility Studies</b>	<b>786 days</b>	<b>Tue 8/9/11</b>	<b>Tue 8/12/14</b>																				
26	Screening of Potential Hex Chromium Treatment Technologies Study	191 days	Tue 8/9/11	Tue 5/1/12																				
27	Hex Chromium Treatment with Strong Base Anion Exchange Test Plan with WRF	426 days	Tue 5/1/12	Tue 12/17/13																				
28	Hex Chromium Treatment Implementation Study	106 days	Tue 3/18/14	Tue 8/12/14																				
29	<b>Task 6: CEQA Documentation</b>	<b>57 days</b>	<b>Tue 6/9/15</b>	<b>Wed 8/26/15</b>																				
30	Circulation NOI and IS/MND for Public Review	22 days	Tue 6/9/15	Wed 7/8/15																				
31	Preparation of Final IS/MND	18 days	Wed 7/8/15	Fri 7/31/15																				
32	Review and Adoption of Final IS/MND	32 days	Tue 7/14/15	Wed 8/26/15																				
33	<b>Task 7: Permitting</b>	<b>739 days</b>	<b>Thu 7/10/14</b>	<b>Tue 5/9/17</b>																				
34	Coastal Development Permit Aquisition	442 days	Thu 7/10/14	Fri 3/18/16																				
35	Department of Drinking Water Permit Amendment	515 days	Wed 5/20/15	Tue 5/9/17																				
36	County Stormwater Discharge Permit	181 days	Fri 7/10/15	Fri 3/18/16																				
37	Hazmat Permit	107 days	Thu 12/10/15	Sun 5/8/16																				
38	Sewer Discharge Permit	107 days	Thu 12/10/15	Sun 5/8/16																				
39	<b>Task 8: Design</b>	<b>373 days</b>	<b>Thu 10/2/14</b>	<b>Mon 3/7/16</b>																				
40	i) Equipment Procurement	206 days	Thu 10/2/14	Thu 7/16/15																				
41	ii) Seascape Well Upgrade	100 days	Wed 7/22/15	Tue 12/8/15																				
42	iii) Raw Water Pipeline	108 days	Fri 7/10/15	Tue 12/8/15																				
43	iv) Bonita Well WTP + Bonita Well Upgrade + San Andreas Well Upgrade	373 days	Thu 10/2/14	Mon 3/7/16																				
44	<b>Task 9: Project Performance Monitoring Plan</b>	<b>43 days</b>	<b>Fri 1/1/16</b>	<b>Tue 3/1/16</b>																				

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



## Project 3: Davenport Recycled Water Plant

Davenport County Sanitation District has prepared a detailed schedule for the Recycled Water Treatment Plant. DCSD prepared the schedule based on the tasks necessary to complete the upgrade of wastewater treatment plant, earth excavation and construction of the new recycled water storage pond, construction of new pipelines and pump stations and had the task durations reviewed by a consultant to verify that estimated dates were reasonable for the project.

The schedule is achievable given that:

- CEQA documentation has been completed and the Notice of Determination was filed in May 2015.
- Negotiations have started with Coast Dairies & Land Co. (CDLC), which owns the land northwest of the wastewater treatment plant, where the new recycled water storage pond will be built. A letter of commitment dated 25 February 2015 has been received. CDLC has also expressed interest in receiving all the recycled water from DCSD. Final negotiations between DCSD and CDLC are pending grant approval and funding.
- Steps have been taken to streamline permitting. The Coastal Development Permit has already been obtained in June 2015 as part of the environmental documents. The construction project needs to be phased over two years since construction can only take place between June and September to avoid potential red-legged frog dispersal events. The construction of the pipelines (away from sensitive area) is scheduled for July to December 2017, which allows ample time for DCSD to obtain the required encroachment permits and pipeline crossing permits.
- Work has started to obtain necessary land access. Easement may be required on CDLC land, and possibly on State Parks land if water is supplied to State Parks. As described above, DCSD has a good working relationship with CDLC and the easements will be finalized together with the land agreement and recycled water supply negotiations.
- The time needed to dredge the lagoon, excavate the earth and construct the berm for the new recycled water storage pond is relatively short. Upon issuance of the contractor notice to proceed, the dredging, excavation and construction of the berm will be completed in approximately four months between June and September 2016. Notice to proceed will be issued by 26 April, 2016. The time needed for the second phase of lining the storage pond is also relatively short and can be completed within three month timeframe of June and September 2017. Other activities such as laying pipelines and constructing pump stations are scheduled for July to December 2017. Hence, the project will be completed by January 2018.

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ID	Task Name	Duration	Start	Finish	2015				2016				2017				2018				
					Qtr 4	Qtr 1	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	<b>Project 3: Davenport Recycled Water Plant</b>	<b>851 days</b>	<b>Thu 1/1/15</b>	<b>Thu 4/5/18</b>																	
2	<b>Budget Category A: Direct Project Administration</b>	<b>700 days</b>	<b>Fri 7/31/15</b>	<b>Thu 4/5/18</b>																	
3	<b>Task 1: Project Management</b>	<b>636 days</b>	<b>Fri 7/31/15</b>	<b>Fri 1/5/18</b>																	
4	<i>Provide Grant Agreement Materials</i>	41 days	Tue 1/5/16	Tue 3/1/16																	
5	<i>Quarterly Invoicing</i>	461 days	Fri 4/1/16	Fri 1/5/18																	
16	<b>Task 2: Labor Compliance Program</b>	<b>524 days</b>	<b>Tue 1/5/16</b>	<b>Fri 1/5/18</b>																	
17	<b>Task 3: Reporting</b>	<b>700 days</b>	<b>Fri 7/31/15</b>	<b>Thu 4/5/18</b>																	
18	<i>Prepare Progress Report Template</i>	41 days	Tue 1/5/16	Tue 3/1/16																	
19	<i>Quarterly Progress Reports</i>	461 days	Fri 4/1/16	Fri 1/5/18																	
30	<i>Project Completion Report</i>	65 days	Fri 1/5/18	Thu 4/5/18																	
31	<b>Budget Category B: Land Purchase/Easement</b>	<b>45 days</b>	<b>Mon 11/16/15</b>	<b>Fri 1/15/16</b>																	
32	<b>Task 4: Land Purchase</b>	<b>45 days</b>	<b>Mon 11/16/15</b>	<b>Fri 1/15/16</b>																	
33	<b>Budget Category C: Planning/Design/Engineering/Environmental Documentation</b>	<b>703 days</b>	<b>Thu 1/1/15</b>	<b>Mon 9/11/17</b>																	
34	<b>Task 5: Feasibility Studies</b>	<b>80 days</b>	<b>Thu 1/1/15</b>	<b>Wed 4/22/15</b>																	
35	<b>Task 6: CEQA Documentation</b>	<b>120 days</b>	<b>Thu 1/1/15</b>	<b>Wed 6/17/15</b>																	
36	<i>Circulation of IS/MND</i>	22 days	Mon 2/23/15	Tue 3/24/15																	
37	<i>Notice of Determination</i>	22 days	Thu 4/23/15	Fri 5/22/15																	
38	<b>Task 7: Permitting</b>	<b>703 days</b>	<b>Thu 1/1/15</b>	<b>Mon 9/11/17</b>																	
39	<i>California Coastal Commission Development Permit</i>	120 days	Thu 1/1/15	Wed 6/17/15																	
40	<i>Caltrans Encroachment Permit</i>	52 days	Mon 1/4/16	Tue 3/15/16																	
41	<i>Union Pacific Railroad Pipeline Crossing Permit</i>	52 days	Mon 1/4/16	Tue 3/15/16																	
42	<i>Recycled Water Permits</i>	266 days	Mon 9/5/16	Mon 9/11/17																	
43	<b>Task 8: Design</b>	<b>98 days</b>	<b>Wed 9/16/15</b>	<b>Fri 1/29/16</b>																	
44	<i>Request for Proposal for Design</i>	10 days	Wed 9/16/15	Tue 9/29/15																	
45	<i>Design Consultant Contracting</i>	9 days	Tue 9/29/15	Fri 10/9/15																	
46	<i>Final Design Report</i>	81 days	Fri 10/9/15	Fri 1/29/16																	
47	<b>Task 9: Project Performance Monitoring Plan</b>	<b>43 days</b>	<b>Fri 1/1/16</b>	<b>Tue 3/1/16</b>																	

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			

Attachment 5 - Schedule  
Regional Water Management Foundation  
Santa Cruz IRWM 2015 Implementation Grant Application

ID	Task Name	Duration	Start	Finish	2015				2016				2017				2018				
					Qtr 4	Qtr 1	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	
48	<b>Budget Category D: Construction/Implementation</b>	<b>499 days</b>	<b>Tue 2/9/16</b>	<b>Fri 1/5/18</b>																	
49	<b>Task 10: Contract Services</b>	<b>56 days</b>	<b>Tue 2/9/16</b>	<b>Tue 4/26/16</b>																	
50	<i>Advertise for Bids</i>	26 days	Tue 2/9/16	Tue 3/15/16																	
51	<i>Review of Bids + Award by Board of Directors</i>	11 days	Tue 3/15/16	Tue 3/29/16																	
52	<i>Notice to Proceed</i>	21 days	Tue 3/29/16	Tue 4/26/16																	
53	<b>Task 11: Construction Administration</b>	<b>411 days</b>	<b>Mon 5/23/16</b>	<b>Mon 12/18/17</b>																	
54	<b>Task 12: Construction/Implementation Activities</b>	<b>425 days</b>	<b>Mon 5/23/16</b>	<b>Fri 1/5/18</b>																	
55	<i>Contractor Mobilization</i>	10 days	Mon 5/23/16	Fri 6/3/16																	
56	<i>Construction - Aerated lagoon</i>	87 days	Thu 6/2/16	Fri 9/30/16																	
57	<i>Construction - Recycled Water Storage Pond (Phase I)</i>	87 days	Thu 6/2/16	Fri 9/30/16																	
58	<i>Construction - Recycled Water Storage Pond (Phase II)</i>	87 days	Fri 6/2/17	Sat 9/30/17																	
59	<i>Construction - Pump Stations</i>	111 days	Fri 7/14/17	Fri 12/15/17																	
60	<i>Construction - Pipelines</i>	111 days	Fri 7/14/17	Fri 12/15/17																	
61	<i>Construction - Project Closeout</i>	30 days	Mon 11/27/17	Fri 1/5/18																	

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 4: Grant Administration

The Grant Administration schedule captures all grant management activities required for compliance with the Proposition 84, IRWM 2015 Grant, including all activities of the complete suite of projects in this Proposal. Agreement Administration will begin upon grant award, which is assumed to be January 1, 2016. Invoicing and reporting will occur quarterly starting in the first quarter of 2016. Administration activities will conclude upon finalization and approval of the all Project Completion Reports and final Grant Completion Report. The Grantee, the Regional Water Management Foundation, has managed several IRWM grants and understands the responsibilities and level of effort for managing such grants. The grant schedule reflects the RWMF's past experience.

- 1. Agreement Administration** – This task will start immediately following the DWR announcement of conditional grant awards. The assumed start date is January 1, 2016 and the task will continue through the entire duration of the grant until April 2018.
- 2. Invoicing** - The task includes compiling quarterly invoices for submittal to DWR. This task will begin following the execution of the grant agreement with DWR and continue through completion of the grant completion report and the final invoice retention release request in April 2018.
- 3. Progress Reports and Project Completion Reports** – The task includes compiling quarterly progress report for submittal to DWR. This task will begin following the execution of the grant agreement with DWR and extend through completion of the final project in January 2018.

Project Completion Reports are scheduled for submittal consistent with the individual project schedules. The first project completion report is scheduled for May 2017 and the final project completion report is scheduled for April 2018.

The RWMF will submit a grant completion report within 90 days of completing of the final project completion which is anticipated to be in July 2018.

- 4. 2015 IRWM Implementation Grant Application** – The preparation of the 2015 IRWM Implementation Grant Application began in June 2015 and concluded with its submittal to DWR on August 7, 2015.

Attachment 5 - Schedule  
Regional Water Management Foundation  
SantaCruz IRWM 2015 Implementation Grant Application

ID	Task Name	Duration	Start	Finish	2015				2016				2017				2018			
					Qtr 1	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	Qtr 4
1	<b>Project 4: Grant Administration</b>	799 days	Mon 6/15/15	Thu 7/5/18																
2	<b>Budget Category A: Direct Project Administration</b>	799 days	Mon 6/15/15	Thu 7/5/18																
3	<b>Task 1 - Agreement Administration</b>	590 days	Fri 1/1/16	Thu 4/5/18																
4	<b>Task 2 - Invoicing</b>	526 days	Fri 1/1/16	Fri 1/5/18																
5	<i>Preparation for Quarterly Invoicing</i>	41 days	Tue 1/5/16	Tue 3/1/16																
6	<i>Quarterly Invoices</i>	461 days	Fri 4/1/16	Fri 1/5/18																
16	<b>Task 3 - Progress Reports and Project Completion Reports</b>	655 days	Fri 1/1/16	Thu 7/5/18																
17	<i>Preparation for Quarterly Reporting</i>	41 days	Tue 1/5/16	Tue 3/1/16																
18	<i>Quarterly Progress Reports</i>	461 days	Fri 4/1/16	Fri 1/5/18																
28	<i>Grant Completion Report</i>	66 days	Thu 4/5/18	Thu 7/5/18																
29	<b>Task 4 - 2015 IRWM Implementation Grant Application</b>	40 days	Mon 6/15/15	Fri 8/7/15																
30	Implementation Grant Application Preparation	40 days	Mon 6/15/15	Fri 8/7/15																

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			