



Status Update on Castroville Seawater Intrusion Project (CSIP) Summer Water Supply

July 25, 2016





Outline

1. CSIP System Production
2. Irrigation Demand
3. Potential Issues
4. Summary



CSIP System Production

Current CSIP Production Capacity (Daily)				
	ac* ft/day	cfs	MGD	gpm.
RTP/Tertiary	51	26	16.5	11,458
Ag Wash	11	5	3.5	2,431
11 Wells	99	50	32	22,500
SRDF	0	0	0	0
Total	161	81	52	36,389





Irrigation Demand

1. Irrigation demand is follow normal trends, requiring between 100 to 125 acre feet of water on average.
2. Peak day demand thus far this season occurred 06/25/2016. CSIP delivered ± 142 acre feet with no issues.



Potential Issues

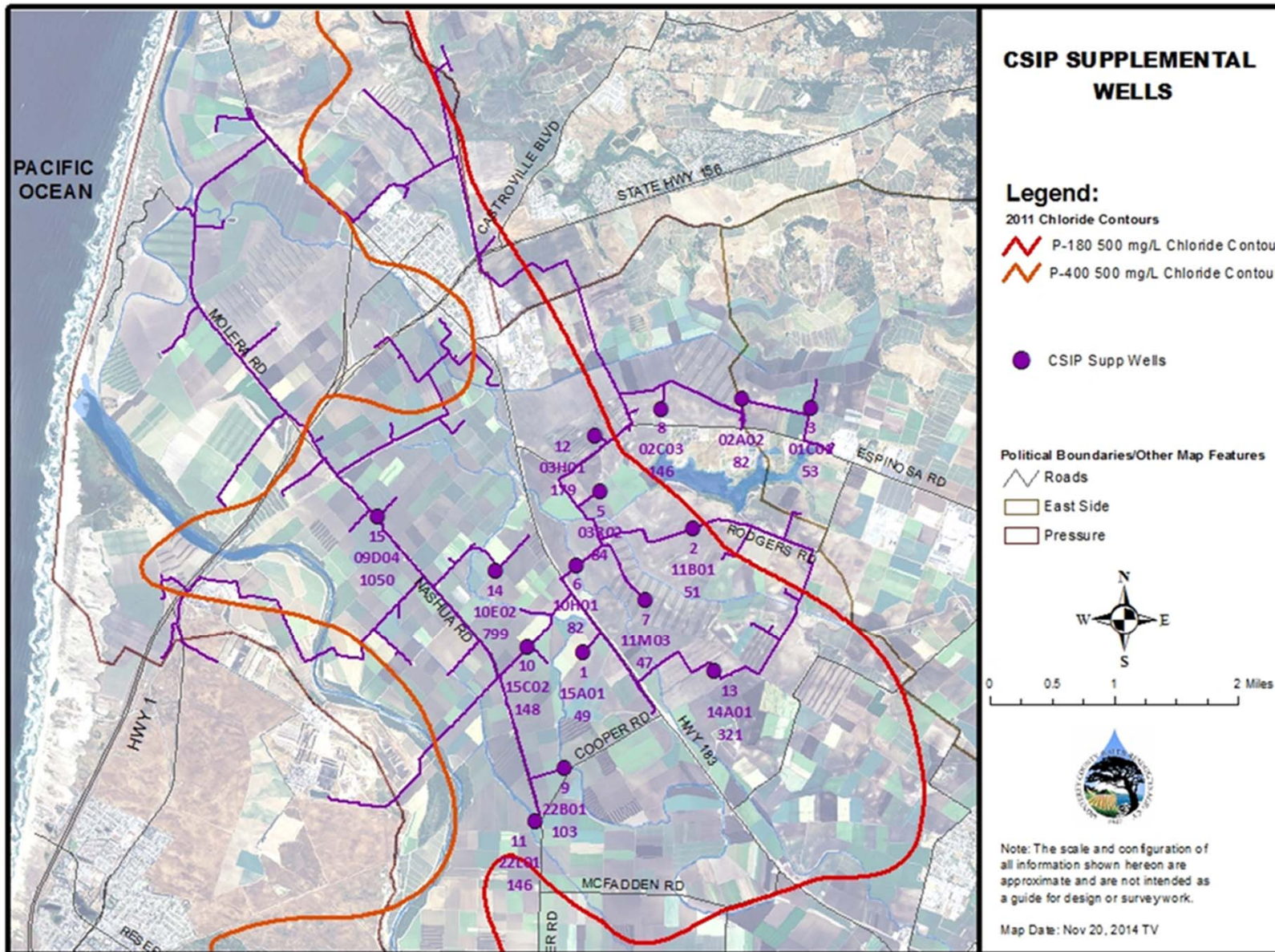
1. Loss of additional wells
 - Mechanical failure
 - Dropping water levels
 - Seawater intrusion



Potential Issues

1. Aquifer Levels

Well No.	Date	SWL (ft. MSL)	Notes:
01C01	5/5/2016	-123	
	7/11/2016	-155	After well repairs.
02A02	8/30/2015	-110	Before well repairs
	7/11/2016	-146	After well repairs.
9D04	8/25/2013	-29	Before well repairs
	7/19/2016	-58	After well repairs.
14A01	4/9/2014	-80	
	7/19/2016	-97	Airline SWL measurment.
15C02	8/17/2014	-56	Before well repairs
	7/23/2015	-93	After well repairs.



CSIP Supplemental Well Status (as of July 25, 2016)

Well No.	Available	Out	Well No.	Design GPM	Actual GPM	Actual ac*ft/day	Comments
01C1		√	01C1	2400	850	3.8	Plan to reset pump and modify pump tail pipe
02A2	√		02A2	2300	2200	9.7	
02C3	√		02C3	2000	1700	7.5	
03H1	√		03H1	4000	3800	16.8	
03R50	√		03R50	1700	1100	4.9	Sand Separator installed
10E2		√	10E2	2700	1500	6.6	Casing collapse. Plan is to abandon.
10H	√		10H	3500	2900	12.8	
11B1	√		11B1	1700	1400	6.2	
11M3	√		11M3	1500	1400	6.2	
14A1		√	14A1	2800	1200	5.3	Chlorides 574 mg/L
15A1	√		15A1	1600	1400	6.2	
15C2		√	15C2	2200	2000	8.8	High Chlorides, Chlorides 700 mg/L.
22B1	√		22B1	3000	2400	10.6	
22L	√		22L	2000	1900	8.4	
NEW 2	√		NEW 2	4800	2300	10.2	Clean up pumping cost ±\$61k
NEW 1		√	NEW 1	4800			Destroyed June 2012.
New 4		√	New 4	4800			To be destroyed.
14L3		√	14L3	2800			To be destroyed.
NEW 5		√	NEW 5	4800			Out of service due to regional seawater intrusion.
01P50		√	01P50	2400			Out of service due to poor regional water quality.
NEW 3		√	NEW 3	4800			Out of service due to regional seawater intrusion.
Total:	21	11		62,600	22,500	99	





Potential Issues

2. Loss of capacity at the RTP/Tertiary facility would prevent CSIP from meeting daily irrigation demands above supplemental well pumping capacity. Scheduled irrigation would be required.



Summary

CSIP currently has enough capacity to meet this years anticipated irrigation demand provided no major losses to the RTP, or well capacity occur.





Status Update on Interlake Tunnel and Spillway Modification Project

July 25, 2016





Agenda

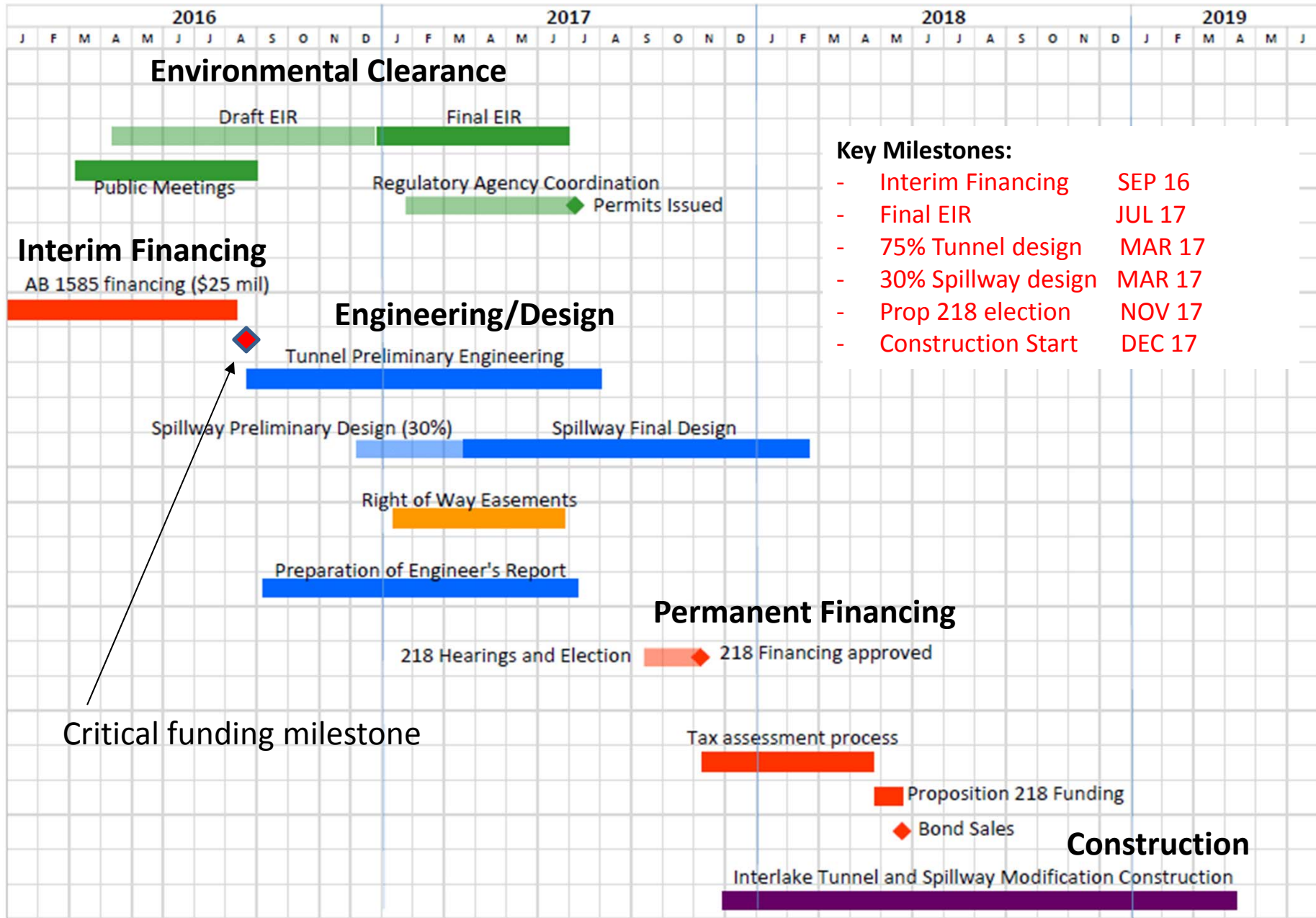
1. Progress To Date
 - Recent Accomplishments
2. Schedule Update
 - Program schedule
 - 5 month look ahead
3. Cost Status
 - Expenditures to date / cash flow forecast
 - Program budget
4. Critical activities / potential issues



Recent Accomplishments

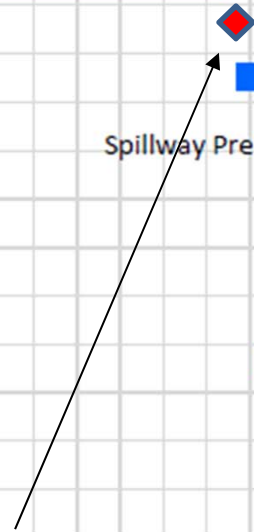
1. Environmental
 - Scoping meeting comments consolidated and incorporated in EIR development plan
 - Revisions to Project Description underway
 - Field and desk top environmental surveys initiated
 - Meeting with Tribal representatives held on June 14th
2. Engineering
 - Proposals received for areal topographic surveys
 - Workshop conducted on July 15th to refine Project Description relative to tunnel operations modeling.
3. Rights of Way
 - MCWRA Board Resolution to address protection of water supply for properties adjacent to tunnel alignment.
 - July 14th meeting with property owners in vicinity of the tunnel to address concerns about water supply protection and the need for subsurface easements.

PROGRAM SCHEDULE

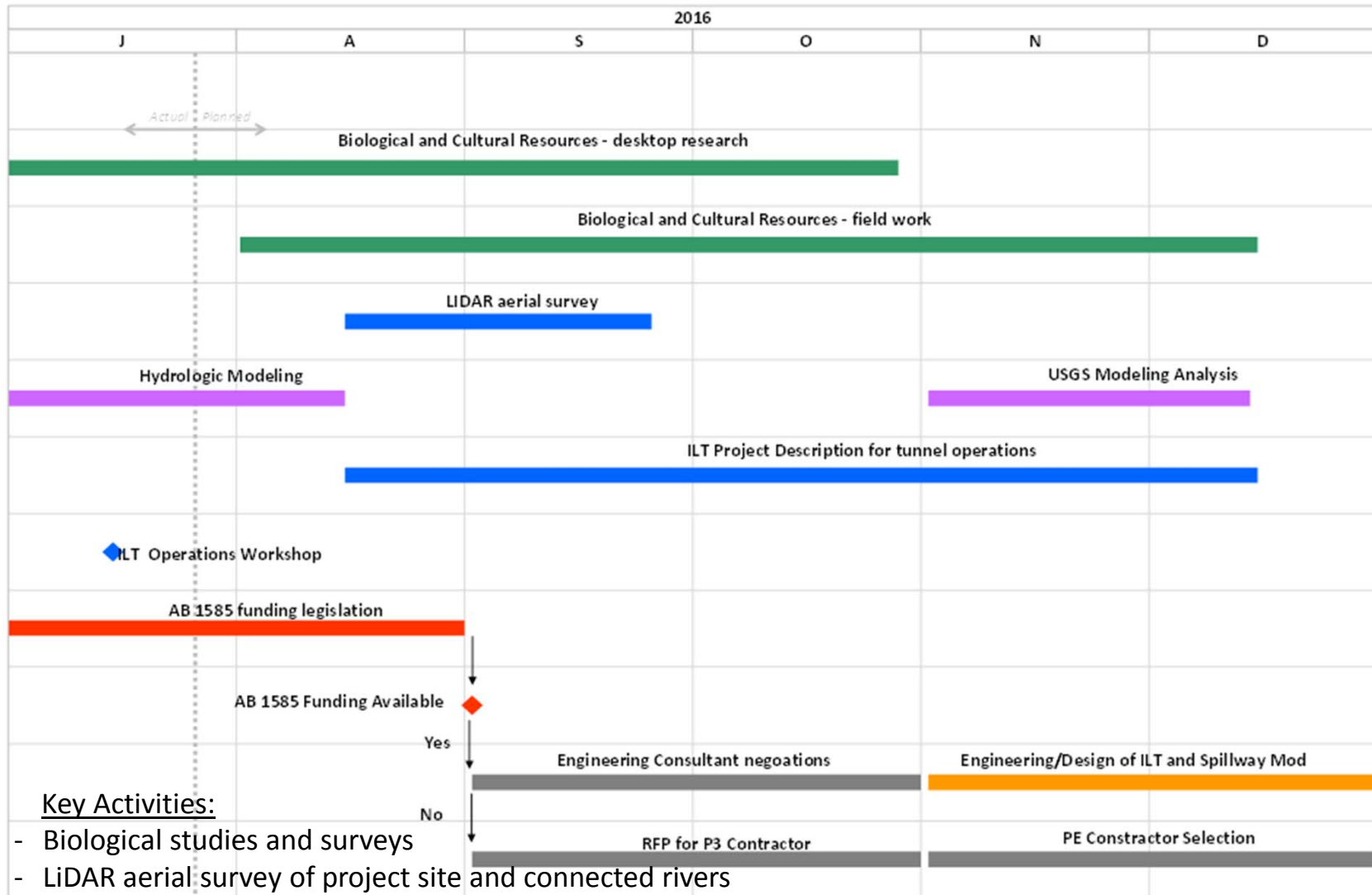


- Key Milestones:**
- Interim Financing SEP 16
 - Final EIR JUL 17
 - 75% Tunnel design MAR 18
 - 30% Spillway design MAR 17
 - Prop 218 election NOV 17
 - Construction Start DEC 17

Critical funding milestone



5 Month Look Ahead Schedule



Key Activities:

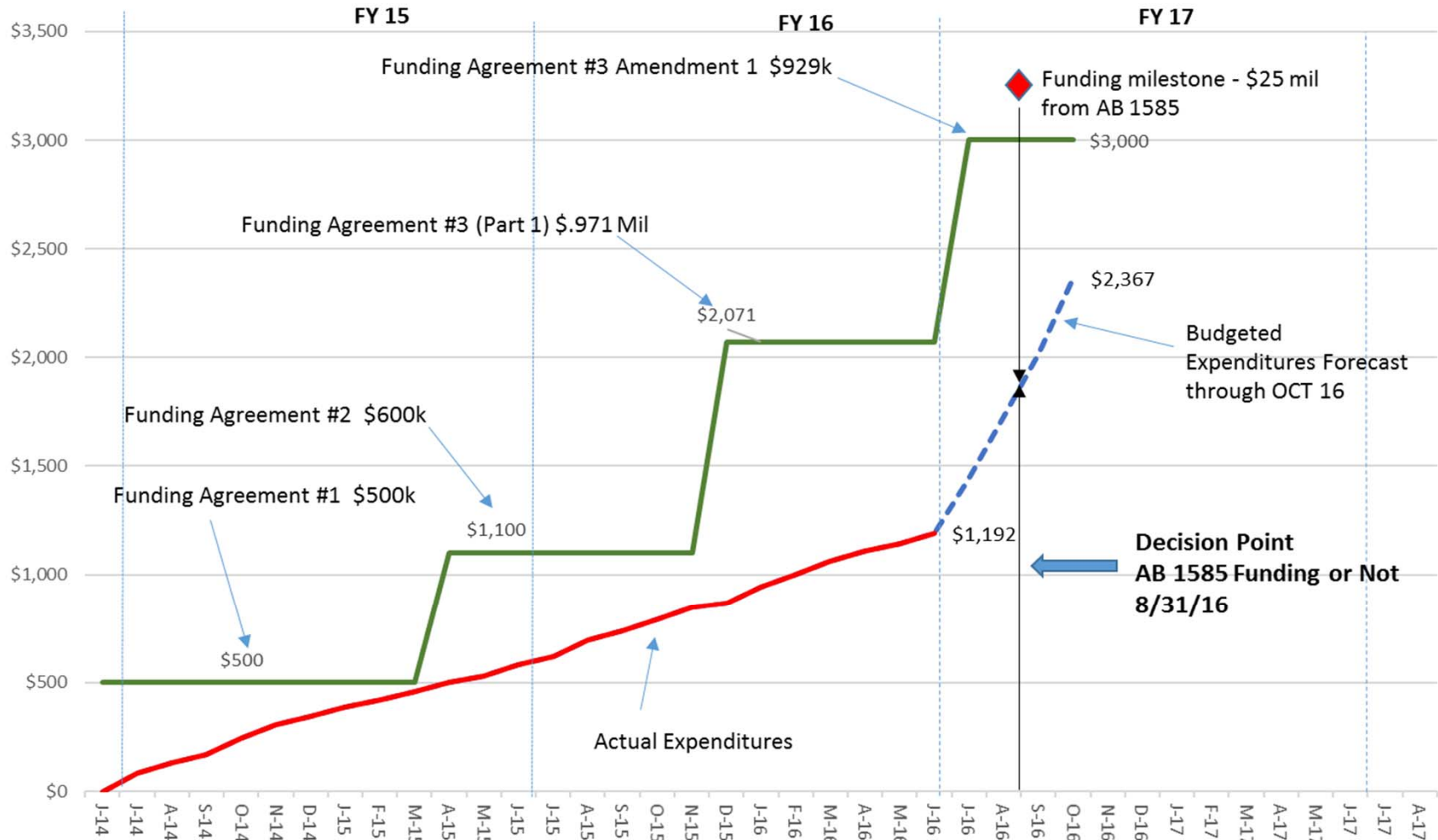
- Biological studies and surveys
- LiDAR aerial survey of project site and connected rivers
- Finishing hydrologic modeling scenarios and project description
- Funding for engineering and design





Interlake Tunnel and Spillway Modification Cumulative Cash Flow

As of 7/16/16



	J-14	J-14	A-14	S-14	O-14	N-14	D-14	J-15	F-15	M-15	A-15	M-15	J-15	J-15	A-15	S-15	O-15	N-15	D-15	J-16	F-16	M-16	A-16	M-16	J-16	J-16	A-16	S-16	O-16	N-16	D-16	J-17	F-17	M-17	A-17	M-17	J-17	J-17	A-17					
Funding	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$1,100	\$2,071	\$2,071	\$2,071	\$2,071	\$2,071	\$2,071	\$2,071	\$2,071	\$3,000	\$3,000	\$3,000	\$3,000														
Budget	\$0	\$83	\$129	\$167	\$246	\$307	\$344	\$386	\$419	\$460	\$504	\$530	\$582	\$622	\$698	\$740	\$792	\$850	\$868	\$942	\$1,000	\$1,000	\$1,100	\$1,100	\$1,100	\$1,100	\$1,400	\$1,700	\$2,000	\$2,300														
Actual	0	\$83	\$129	\$167	\$246	\$307	\$344	\$386	\$419	\$460	\$504	\$530	\$582	\$622	\$698	\$740	\$792	\$850	\$868	\$942	\$1,000	\$1,000	\$1,100	\$1,100	\$1,100																			



Program Budget (no changes)

Interlake Tunnel and Spillway Modification Capital Cost Estimate	
9-Jun-16	
<u>Description</u>	<u>Costs (\$000)</u>
<u>Project Development Costs</u>	
Conceptual Engineering	\$1,110
Environmental and Permitting	\$1,738
Interlake Tunnel Engineering	\$2,095
San Antonio Spillway Engineering	\$1,914
Right of Way Easements	\$244
DB RFP Assstance	\$37
Proposition 218 Financing	\$431
Program Management	\$1,865
Environmental/Engineering Contingency	\$490
Subtotal - Project Development Costs	\$9,924
<u>Construction Costs</u>	
Tunnel	\$32,506
Fish Screen	\$5,000
Spillway Modification	\$15,000
Construction contingency	\$9,800
Construction Management	\$1,200
Capitalized interest during construction	\$4,800
Subtotal Construction Costs	\$68,306
Total Project Cost Estimate	\$78,230





Critical activities / potential issues

1. Securing \$25 million state funding from AB 1585
 - Legislation reduced to \$10 million
 - No source of funding identified
 - Uncertain availability of funding
2. Implementation of alternative financing plan if AB 1585 fails to provide adequate funding
3. Completion of hydrologic basin USGS model by Nov. 30, 2016
 - Final Project Description for EIR – Dec. 15, 2016
4. Initiate engineering/design of tunnel and spillway mod Nov. 1, 2016 (dependent of funding)





TODAY'S ACTION

Consider Adopting the Schedule of Regular Board of Directors Meetings to be Held in the Monterey County Government Center Board of Supervisors' Chambers, 168 West Alisal Street, Salinas; and, Recessing the August 2016 Regular Board of Directors Meeting, Resuming Regular Meetings in September 2016.





Committee Action

- None since the initial review of this matter by the Personnel and Administration Committee in April 2016.



Prior BOD Action

- April 25, 2016: BOD approved Third Mondays as the Regular monthly meeting date once meetings are conducted at the Monterey County Government Center, 168 West Alisal Street, Salinas in the Board of Supervisors' Chambers
 - Closed Session @ Noon*
 - Regular Meeting @ 1:00 PM*
- * (unless otherwise posted)



Discussion

- The change in the monthly Regular meeting date necessitated a change in monthly Committee meeting dates.
- Committee meetings will now be held one week earlier than in the past.
- Committee meetings will continue to be held at the Agency...before and after the move.



Discussion (cont.)

MEETING	SCHEDULE
BASIN MANAGEMENT PLAN	1 ST WEDNESDAY @ 8:30 AM
PLANNING	1 ST WEDNESDAY @ 10:00 AM
PERSONNEL & ADMINISTRATION	1 ST FRIDAY @ 8:30 AM
FINANCE	1 ST FRIDAY @ 10:00 AM
REGULAR BOARD OF DIRECTORS	3 RD MONDAY @ 1:00 PM (CLOSED SESSION @ NOON)
RESERVOIR OPERATIONS	LAST THURSDAY @ 1:30 PM





Financial Impact

- Staff anticipates no additional costs associated with this action.
- Videotaping/livestreaming services are covered under Monterey County's existing Agreement (96 meetings) with the Clerk to the Board's office.
- MCWRA meetings exceeding cap of Monterey County Agreement will be billed as follows:
 - \$500: meetings occurring between 8 am and noon or 1 pm and 5 pm
 - \$800 for full day meetings; meetings spanning lunch hour charged at full day rate
 - Add 25% overtime fee for meetings occurring after 5 pm



TODAY'S ACTION

Adopt the Schedule of Regular Board of Directors Meetings to be Held in the Monterey County Government Center Board of Supervisors' Chambers, 168 West Alisal Street, Salinas; and, Recess the August 2016 Regular Board of Directors Meeting, Resuming Regular Meetings in September 2016.







TODAY'S ACTION

Consider Approving a Request that the Public and Interested Parties Provide the Agency with any Information Regarding the Current 2B, 2Y, and 2Z Assessments, Water Delivery/Service Charges, and Corresponding Improvements that Should Be Addressed as Part of any Revised Methodology, thereby Enabling Raftelis Financial Consultants, Inc. to Explore Potential Alternatives in the Assessment Methodologies to be Prepared for Future Stakeholder Meetings.





Discussion

- On June 7, 2016 the Water Resources Board of Supervisors approved the Raftelis Financial Consultants, Inc. agreement with the Water Resources Agency.
- In prior Board and Finance Committee meetings it was suggested that the Agency engage the public and interested parties in full collaboration and transparency regarding Raftelis Financial Consultants, Inc. (RFC) review of the Benefit Assessments in Zones including water delivery/service charges so as to provide the Agency with the following three methodologies:
 1. Existing assessment methodology
 2. Revised assessment methodology
 3. Cost of service methodology



Discussion (cont.)

- The Agency would like to put an invitation on the Agency website requesting interested parties to send any pertinent information regarding this analysis to a said mailbox by a certain date.
- This will enable RFC to review and ask more in depth questions, if needed, before they engage the interested parties in a public meeting format.
 - At the July 8th Finance Committee, it was recommended that the agency publish on the website all existing documents provided to RFC for analysis.



TODAY'S ACTION

Approve a Request that the Public and Interested Parties Provide the Agency with any Information Regarding the Current 2B, 2Y, and 2Z Assessments, Water Delivery/Service Charges, and Corresponding Improvements that Should Be Addressed as Part of any Revised Methodology, thereby Enabling Raftelis Financial Consultants, Inc. to Explore Potential Alternatives in the Assessment Methodologies to be Prepared for Future Stakeholder Meetings.







TODAY'S ACTION

Consider Reviewing the Regional Water Quality Control Board's Draft 401 Water Quality Certification for the Salinas River Stream Maintenance Program; Providing Direction to Staff; and, Authorizing the General Manager to Prepare and Submit Public Review Comments.





Committee Action

- None



Prior BOD/BOS Action

- June 2014 the BOD recommended that the BOS certify the EIR and approve the Program
- July 2014 the BOS certified the EIR and approved the Program



Financial Impact

- The associated RWQCB 401 Cert. fee (\$90,000) was budgeted in the MCWRA's FY15-16 Budget
- Related costs of complying with the draft conditions in the 401 Certification are unknown at this time



Discussion

- MCWRA has administered a stream/channel maintenance program since 1997
- Current short-term Program is a collaborative effort amongst several project partners, including:
 - TNC
 - RCD
 - GSA
 - SRCC
- Multiple objectives:
 - resource protection
 - environmental sustainability
 - flood damage reduction



Discussion (cont.)

Two phases:

- Phase 1: Demonstration Project in Chualar and Gonzales RMUs
 - served as model and provided framework for future work
 - permitted by RWQCB with 401 Cert. in October 2014
- Phase 2: five additional RMUs for remaining Program area
 - same development and permitting process as the Demonstration
 - scheduled to be permitted by September 2016



Discussion (cont.)

Required Permits:

- USACE, Clean Water Action Section 404 including ESA Consultations with NMFS and USFWS
- RWQCB , 401 Water Quality Certification
- CDFW, Streambed Alteration Agreement (obtained by the RCD)



Discussion (cont.)

- Program's Permitting Committee consists of:
 - USACE
 - NOAA Fisheries
 - US Fish and Wildlife Service
 - CA Department of Fish and Wildlife
 - State RWQCB
 - The Nature Conservancy
 - Grower-Shipper Association
 - Resource Conservation District of Monterey Co.
 - local landowners or growers for each RMU
 - MCWRA



Discussion (cont.)

- Permitting Committee met in the office and the field between October 2015 and June 2016
- Project Partners met with each Permitting Agency multiple times after permits were submitted in January 2016 to provide further clarification and details



Discussion (cont.)

- RWQCB drafted a 401 Water Quality Certification for Phase 2 of the Program which will incorporate Phase 1
- Public Review Period July 6-29; MCWRA did not get to preview the conditions
- RWQCB will hold an informational item at their July 29 regular meeting to discuss the draft conditions and any comments received
- The final 401 Cert. will be based on this interactive process and is anticipated to be issued prior to the September 1st start date



Discussion (cont.)

- MCWRA staff reviewed the draft 401 Cert. and draft responses were made available prior to this meeting for discussion and consideration:
 - most of staff’s recommendations address consistency with the proposed Program or clarifications (items 1-12 in draft letter)
 - one condition may not address the Program’s impact to beneficial uses as required in the 401 Cert. Process (item 13 in draft letter)



Discussion (cont.)

- Special Condition J: Long –Term Salinas River Management Strategy states in part that MCWRA shall develop a strategy to address, at a minimum:
 - Reasonable flood risk reduction objectives
 - Channel maintenance
 - Optimization of ecological function
 - Flow objectives supporting beneficial uses, including fish habitat and migration
 - Long-term Arundo control
 - Operation of the Salinas River Lagoon



Discussion (cont.)

- Special Condition J, Schedule:
 - **May 31, 2017:** timeline, interim objectives, and summary of elements to be addressed

 - **May 31, 2021:** draft management strategy for review and approval by the RWQCB

 - **May 31, 2022:** final management strategy



Discussion (cont.)

- Special Condition J, Concerns:
 - Long-term plan must be a collaborative effort:
 - MCWRA cannot guarantee participation of landowners or the success of developing a long-term plan
 - Multiple regulatory agencies as well as various stakeholders will be participating and approving what is acceptable
 - RWQCB does not have the sole authority nor can they drive the timeline for other agencies to participate and perform their duties
 - FY 16-17 budget does not include this task; no revenue stream identified means a commitment to this requirement is beyond current resources

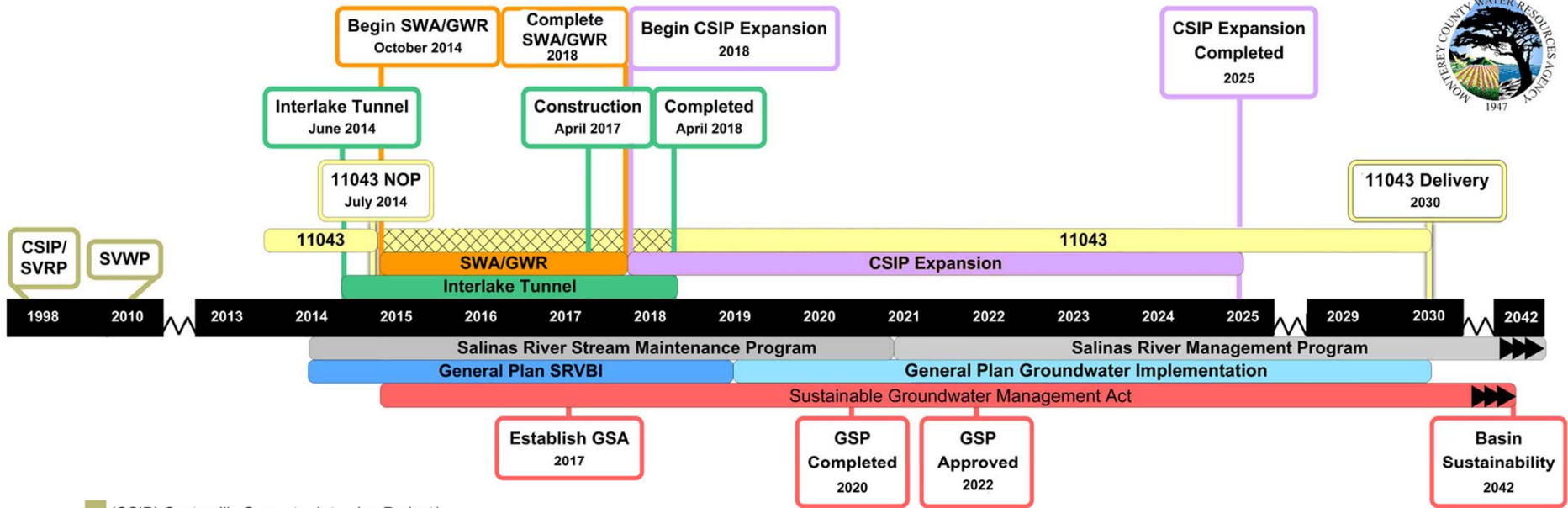


Discussion (cont.)

- Special Condition J, Concerns continued:
 - GSA as a result of SGMA will be determined June 2017; could be MCWRA or another entity which may affect the ability/authorization to perform this task
 - Requires responsibilities not in the Agency Act
 - Technical and monitoring reports should determine compliance with this certification per CA water code section 13267; this condition appears out of that scope.



Comprehensive Salinas Valley Basin Sustainability Approach



(CSIP) Castroville Seawater Intrusion Project/
 (SVRP) Salinas Valley Reclamation Project
 (SVWP) Salinas Valley Water Project

(SWA/GWR) Source Water Agreement/Ground Water Replenishment

General Plan (SRVBI) Salinas River Valley Basin Investigation

General Plan Groundwater Implementation
 (address seawater intrusion and falling groundwater levels by 2030)





Summary

- RWQCB 401 Cert. needed so work can begin in all seven RMUs September 1
- MCWRA staff prepared a response to the draft 401 Cert. conditions and recommends submitting during the public review period so RWQCB can reconsider a number of conditions:
 - Items 1-12 should be refined for consistency with Program goals, Phase I 401 Cert. requirements, and feasible implementation
 - Item 13 should be removed (first choice) or timelines modified to align with MCWRA plan including adequate funding and MOU established between all agencies and stakeholders for shared responsibility (second choice)



TODAY'S ACTION

Review the Regional Water Quality Control Board's Draft 401 Water Quality Certification for the Salinas River Stream Maintenance Program, Provide Direction to Staff, and Authorize the General Manager to Prepare and Submit Public Review Comments.

