

California Total Maximum Daily Load (TMDL)

Program Summary Report

Fiscal Year 2013 – 2014

August 2014

State Water Resources Control Board
Regional Water Quality Control Boards

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Foreword

Summary of the status of California's TMDL Program

The purpose of this Program Status Summary Report is to provide the State Water Resources Control Board and the Regional Water Quality Control Boards management, U.S. Environmental Protection Agency, and the public with a succinct presentation of fiscal year 2013 – 2014 TMDL Program performance and long term trends. The graphs and tables used in the report provide multiple lenses through which to assess the Program.

The report lays out the magnitude of the problem and examines the progress the State has made from several perspectives. It looks at:

- The current amount of impaired, i.e., Clean Water Act sect. 303(d) listed, waters;
- Fiscal year 2013 – 2014 commitments and achievements;
- TMDLs adopted and approved;
- Resources needed to make the current level of progress;
- How those resources are being expended; and
- Short and long term achievement trends.

Information is reported for the Statewide Program and for each Region.

Program Evaluation

The last 303(d) listing cycle resulted in a sharp increase, by over half again, in the number of impaired waters. Therefore the number of TMDLs needed to address all impaired waters correspondingly increased. Progress was made during FY 13-14, 138 impaired water listings were addressed.

Adopted TMDLs must be implemented in order to actually achieve the intended water quality improvements. As the number of adopted TMDLs has increased greater effort and more resources have gone into implementing those TMDLs. The TMDL program has been faced with an increased work load and reductions in staffing and research (contract) funds. Efforts continue to try to maintain productivity in the TMDL program by increasing TMDL adoption efficiency at the Regional Water Board level and at the State level through Statewide TMDLs.

TMDL Program Performance Summary

Long Term Program Performance

Number of TMDLs Adopted through June FY 13-14 = 209
Number of Listings Addressed through TMDL Adoptions through June FY 13-14 = 1,379
Number of Listings Re-considered through June FY 13-14 = 160
Number of Listings Addressed by delisting through June FY 13-14 = 528
Total Number of CWA 303(d) Listings Addressed through June FY 13-14 = 1,907
Percentage of 2010 CWA 303(d) Listings Addressed by TMDLs through June FY 13-14 = 40%

Fiscal Year 2013 - 2014 Program Performance

Region 1

117/134 = 87% Workplan TMDL Commitments Completed
1/1 TMDLs Completed/Scheduled
8 303d Listings addressed in 13-14
132 Tasks scheduled for completion in FY 13-14
1 TMDLs scheduled for adoption in FY 13-14
8 Number 303d listings scheduled in FY13-14

Region 2

34/42 = 81% Workplan TMDL Commitments Completed
2/2 TMDLs Completed/Scheduled
4 303d Listings addressed in 13-14
44 Tasks scheduled for completion in FY 13-14
2 TMDLs scheduled for adoption in FY 13-14
3 Number 303d listings scheduled in FY13-14

Region 3

45/53 = 85% Workplan TMDL Commitments Completed
6/5 TMDLs Completed/Scheduled
58 303d Listings addressed in 13-14
53 Tasks scheduled for completion in FY 13-14
5 TMDLs scheduled for adoption in FY 13-14
79 Number 303d listings scheduled in FY13-14

Region 4

79/82 = 96% Workplan TMDL Commitments Completed
3/3 TMDLs Completed/Scheduled
10 303d Listings addressed in 13-14
89 Tasks scheduled for completion in FY 13-14
3 TMDLs scheduled for adoption in FY 13-14
10 Number 303d listings scheduled in FY13-14

Region 5

64/73 = 88% Workplan TMDL Commitments Completed
1/1 TMDLs Completed/Scheduled
47 303d Listings addressed in 13-14
78 Tasks scheduled for completion in FY 13-14
1 TMDLs scheduled for adoption in FY 13-14
47 Number 303d listings scheduled in FY13-14

Region 6

19/39 = 49% Workplan TMDL Commitments Completed
0/0 TMDLs Completed/Scheduled
0 303d Listings addressed in 13-14
42 Tasks scheduled for completion in FY 13-14
0 TMDLs scheduled for adoption in FY 13-14
0 Number 303d listings scheduled in FY13-14

Region 7

46/52 = 88% Workplan TMDL Commitments Completed
1/1 TMDLs Completed/Scheduled
11 303d Listings addressed in 13-14
52 Tasks scheduled for completion in FY 13-14
2 TMDLs scheduled for adoption in FY 13-14
4 Number 303d listings scheduled in FY13-14

Region 8

37/53 = 70% Workplan TMDL Commitments Completed *
0/1 TMDLs Completed/Scheduled
0 303d Listings addressed in 13-14
59 Tasks scheduled for completion in FY 13-14
2 TMDLs scheduled for adoption in FY 13-14
5 Number 303d listings scheduled in FY13-14

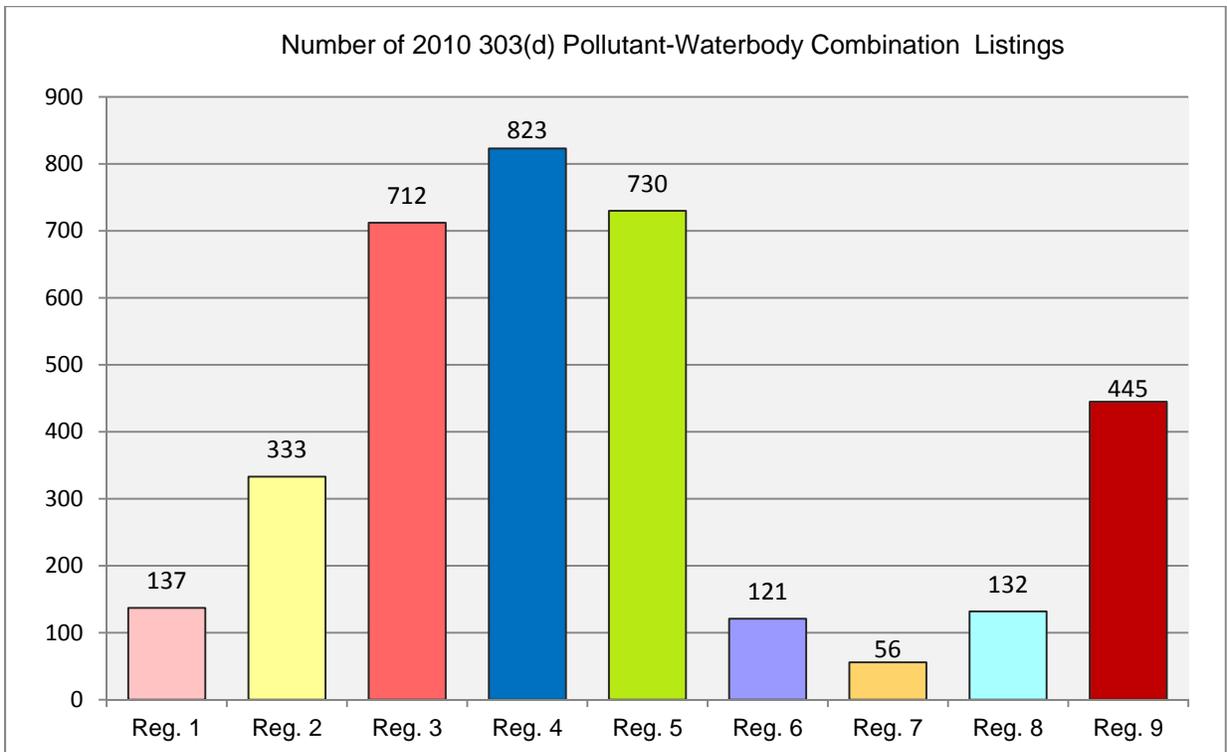
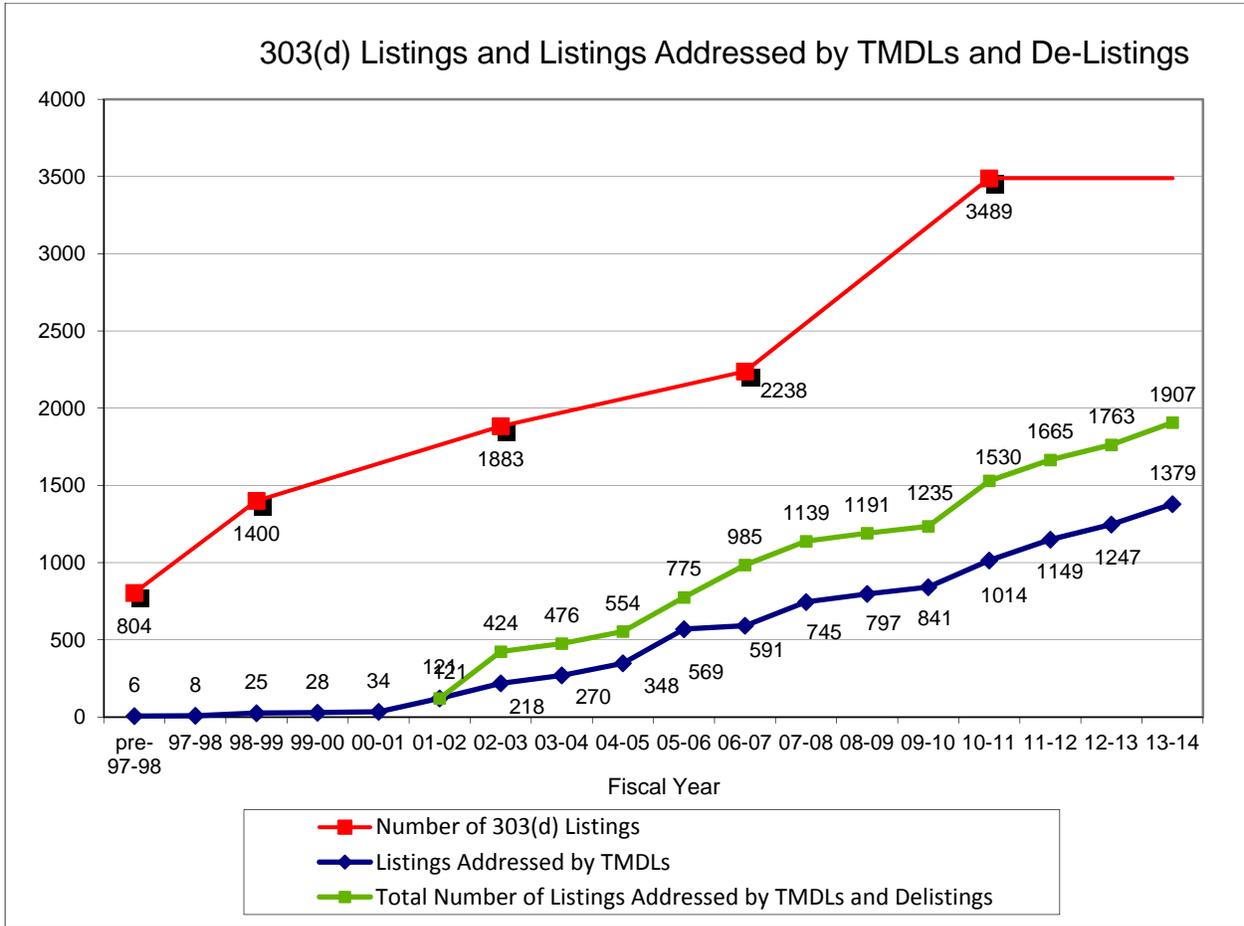
Region 9

12/36 = 33% Workplan TMDL Commitments Completed
0/3 TMDLs Completed/Scheduled
0 303d Listings addressed in 13-14
44 Tasks scheduled for completion in FY 13-14
5 TMDLs scheduled for adoption in FY 13-14
10 Number 303d listings scheduled in FY13-14

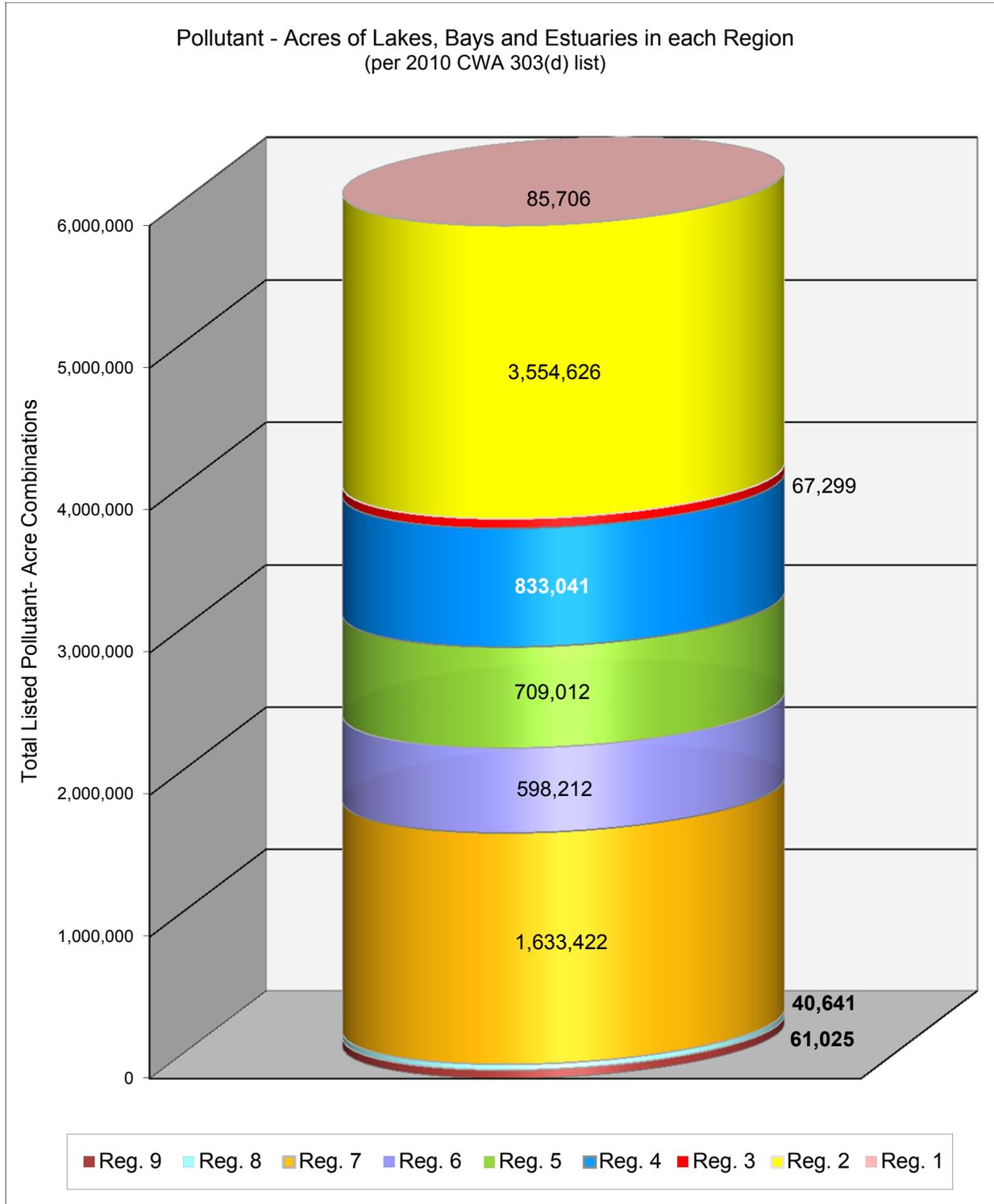
"TMDL Commitments Completed" is based upon data entered into TMDL Tracking Database as of the 5th of the month following the report period.

Scope of the Statewide Problem

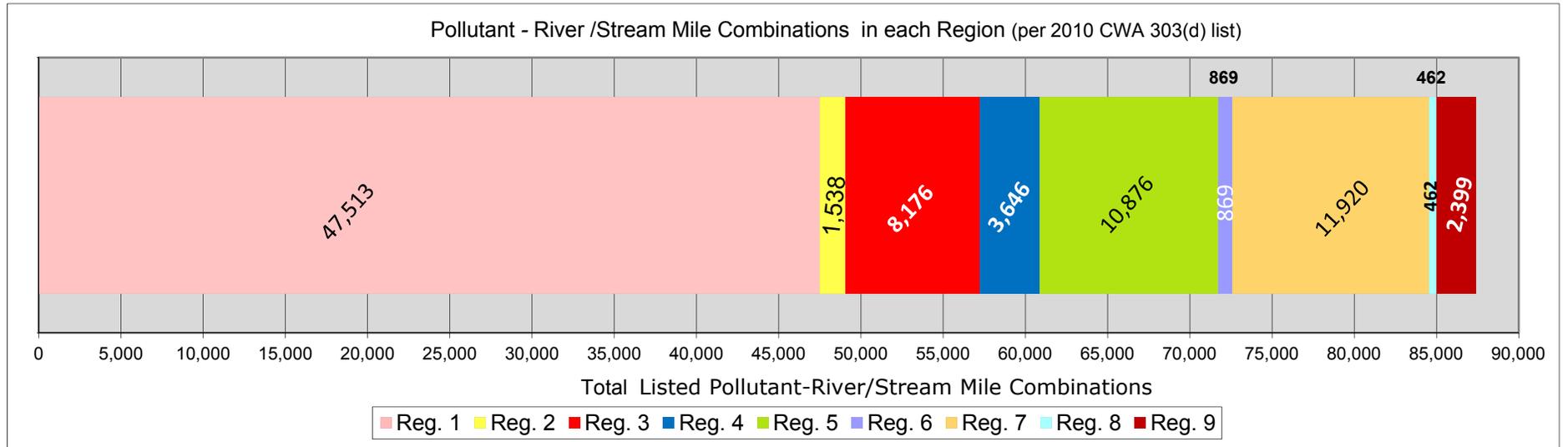
Scope of the Problem



Scope of the Problem



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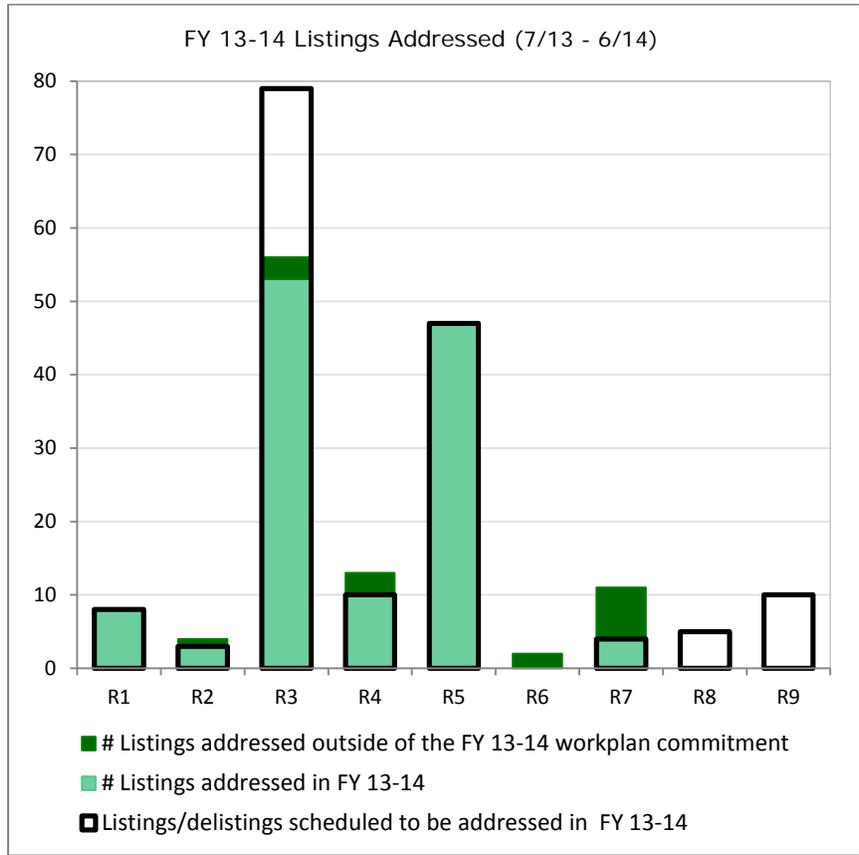
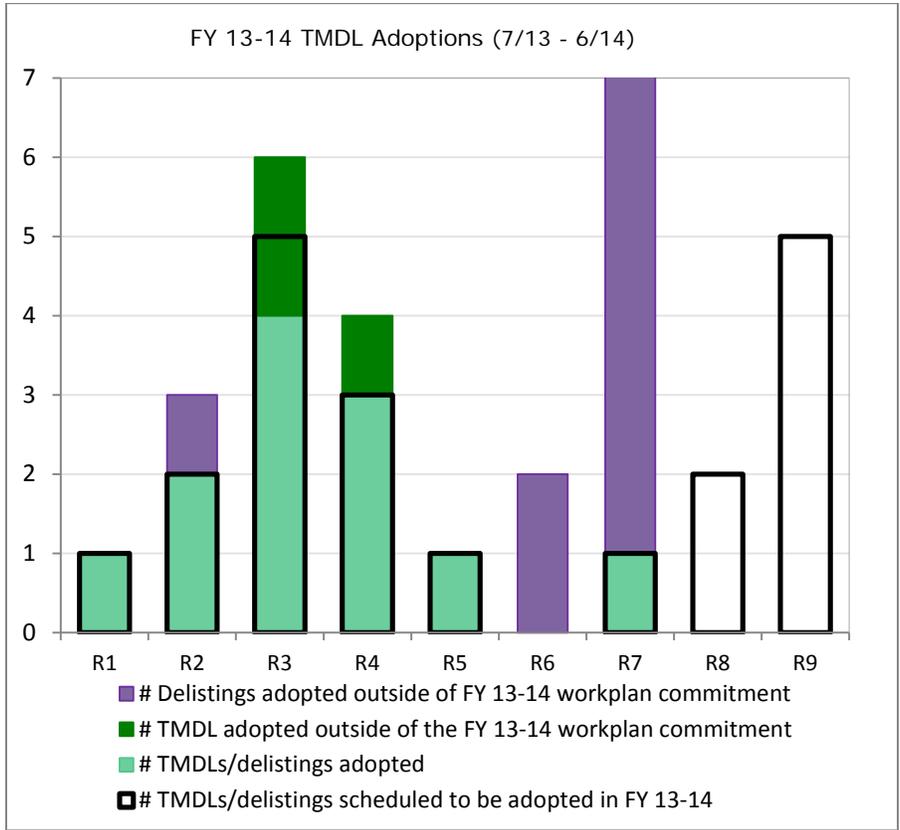
Fiscal Year 2013 – 2014

Regional Water Board
TMDL Adoption Commitments for FY 13-14

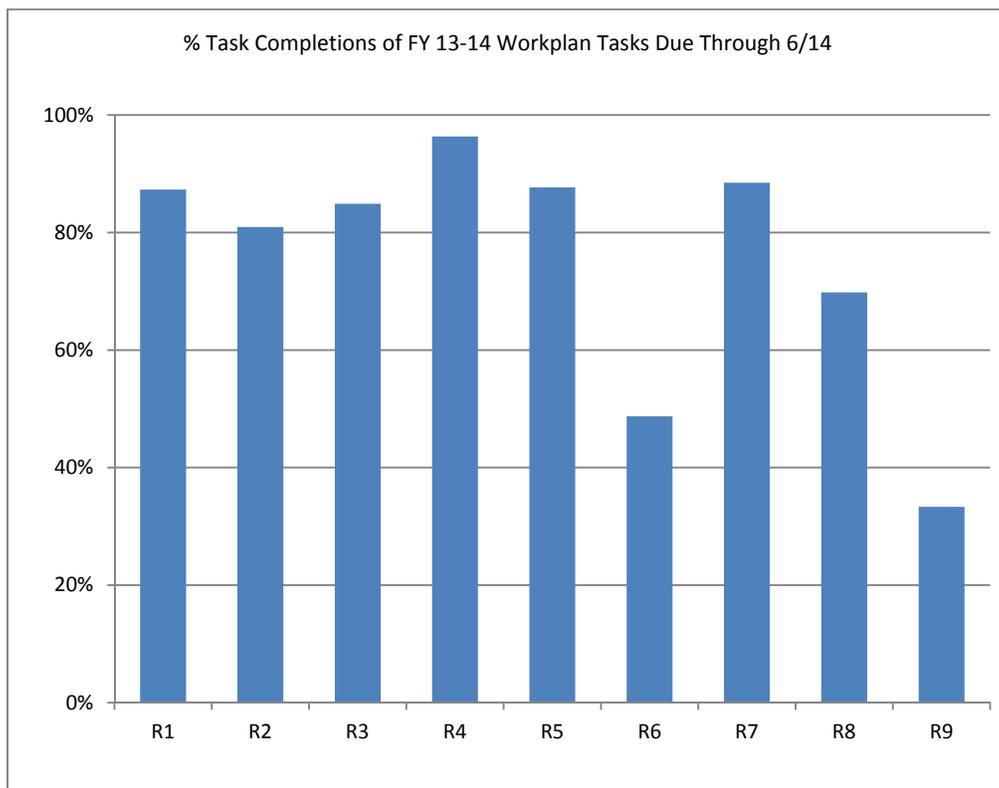
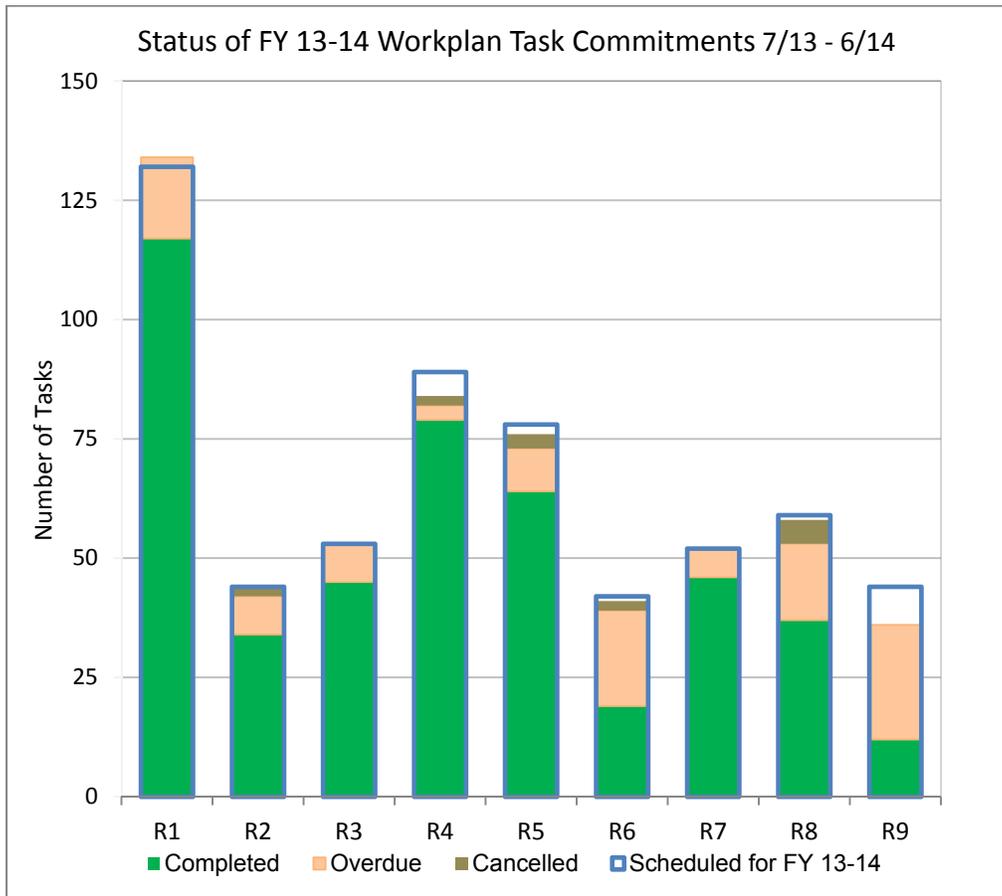
Region	TMDL Project	Scheduled Adoption Date	Adopted	# listings
1	<i>Eel, Mattole, & Navarro</i> Temperature	12/13	Yes	8
2	<i>Lagunitas Creek</i> Sediment	1/14	Yes	1
	<i>Napa River and Sonoma Creek</i> nutrients (delisting)	2/14	Yes	2
3	<i>Pajaro River</i> organophosphate pesticides	9/13	Yes	5
	<i>Arroyo Paredon</i> nitrate	12/13	Yes	1
	<i>Santa Maria River</i> Watershed toxicity and pesticides	12/13	Yes	45
	<i>San Lorenzo/Zayante</i> chlorpyrifos	1/14	Yes	2
	<i>Pajaro River</i> watershed nutrient	1/14	no	26
4	<i>Ballona Creek</i> metals (57) [re-consideration]	2/14	Yes	(15)*
	<i>Marina Del Rey</i> toxics (54) (additional listings)	2/14	Yes	10
	<i>Marina Del Rey</i> toxics (54) [re-consideration]			(9)*
	<i>Ballona Creek</i> toxics (55) [re-consideration]	2/14	Yes	(12)*
5	<i>Sacramento and San Joaquin</i> Pesticides (Phase 1 - Diazinon and Chlorpyrifos)	9/13	Yes	47
6				
7	<i>Alamo and New Rivers</i> chlorpyrifos & diazinon	9/13	Yes	4
8	<i>Canyon Lake</i> bacteria (delisting)	5/14	no	1
	<i>Newport Bay</i> watershed metals	6/14	no	4
9	B Street and Broadway Piers	6/14	no	2
	Downtown Anchorage	6/14	no	2
	<i>7th Street Channel (Paleta Creek Mouth)</i> sediment toxicity	5/14	no	2
	<i>Mouth of Chollas Creek</i> benthic community effects, sediment toxicity	5/14	no	2
	<i>Mouth of Switzer Creek</i> PAHs, chlordane	5/14	no	2

* Listings reconsidered

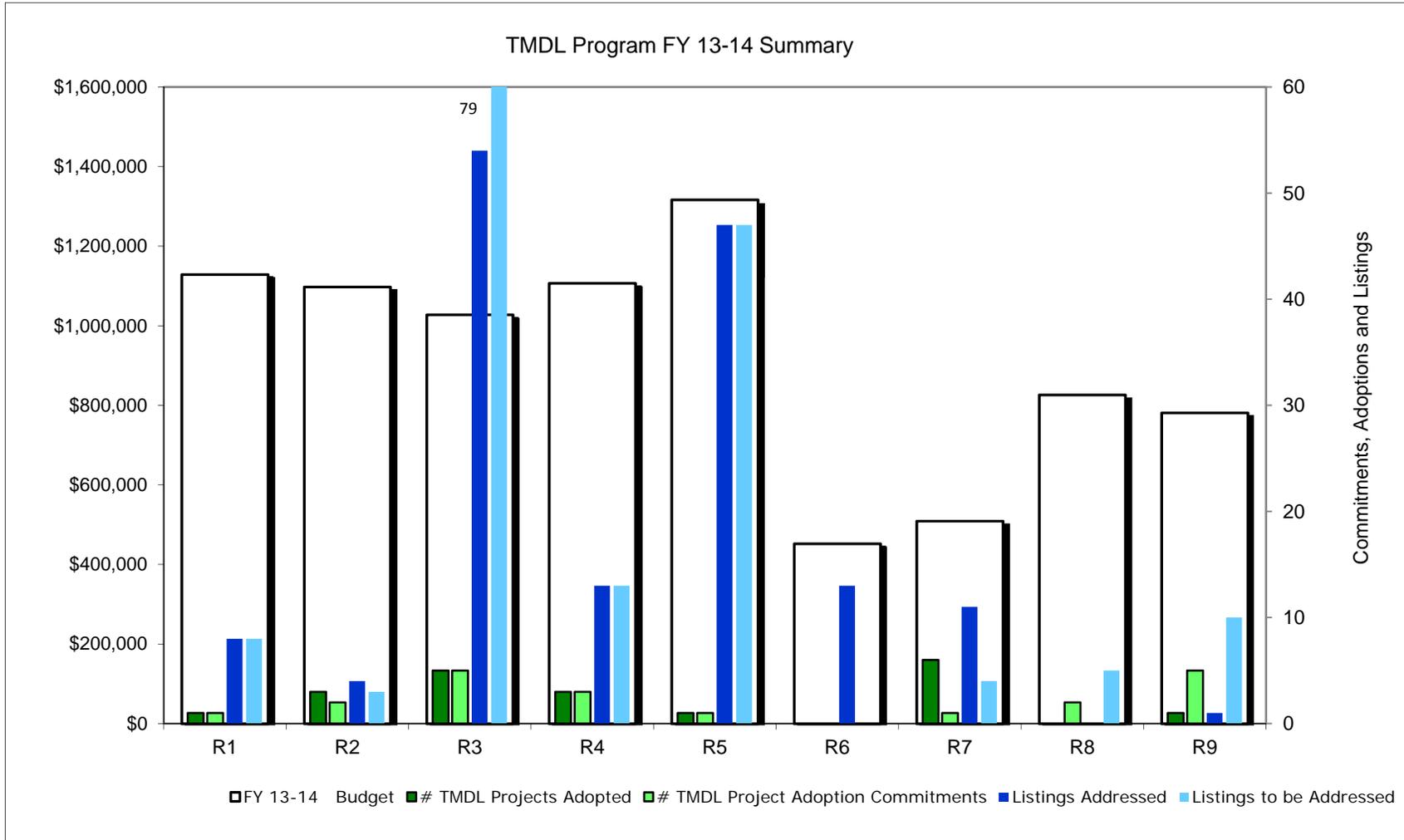
# TMDLs Listings Addressed:	125
# TMDLs Listings Reconsidered:	37
TMDL Adoption Commitments:	21
# TMDLs Adopted/Re-Considered to Date:	12
% of FY 13-14 Commitments Met:	57%



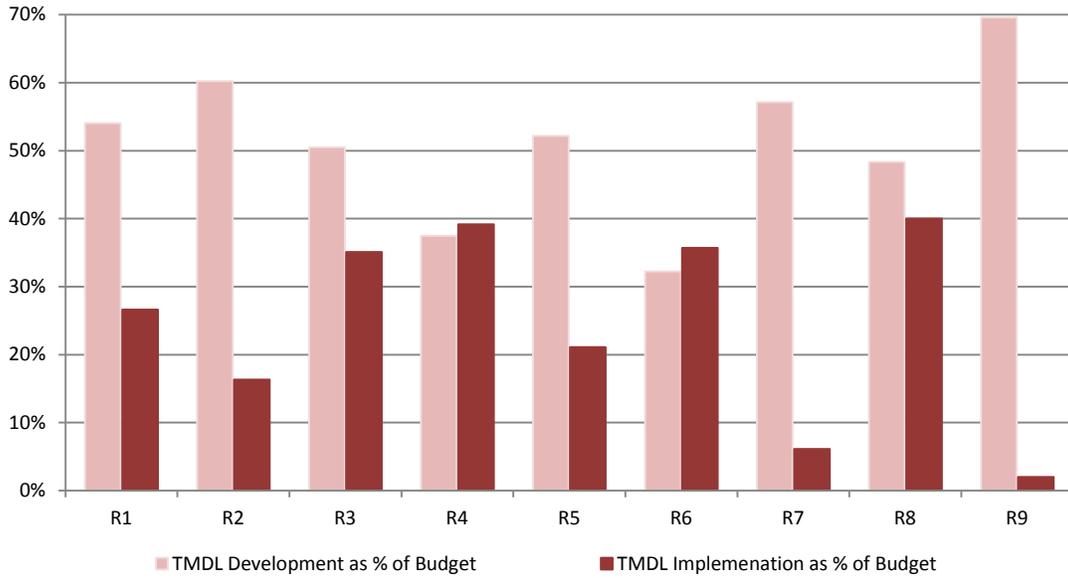
Workplan Tasks Status



FY 13-14 TMDL Program Summary by Region



**FY 13-14 Resource Use for
TMDL Development and TMDL Implementation**



Note: In addition to TMDL development and implementation, resources are used for Program Management and the Integrated Report

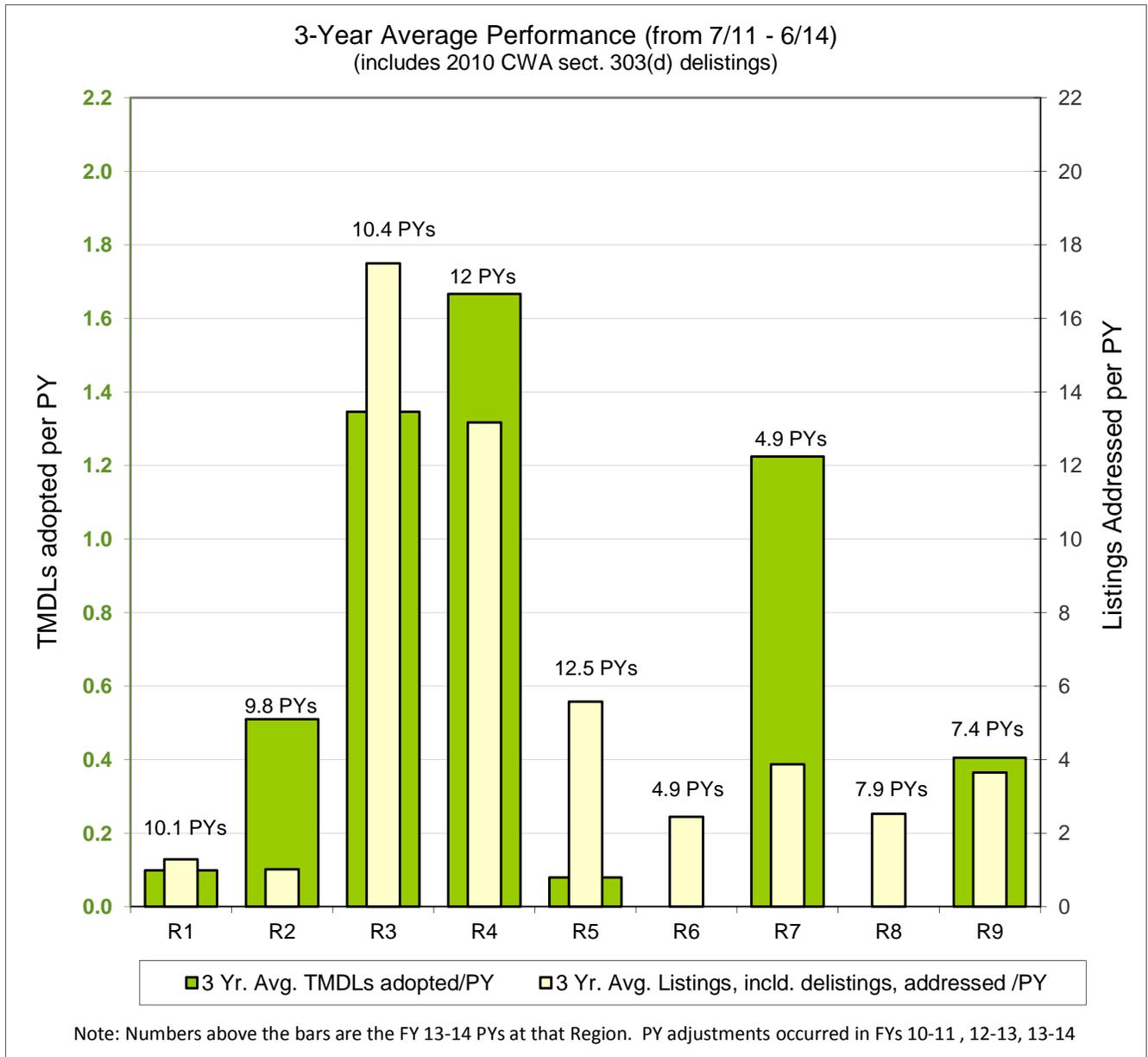
TMDLs Submitted to the State Board for Consideration

TMDLs Actions by the State Board in FY 13-14 (July 2013 - June 2014)		
	State Board Action	Date
Region 1		
Region 2		
Region 3		
Salinas River nutrients	Approved	2/4/14
Santa Maria watershed nutrients	Approved	2/4/14
Region 4		
Los Cerritos Channel Metals, and the San Gabriel River and Impaired Tributaries Metals and Selenium	Approved	3/4/14
Ballona Creek metals	Approved	6/17/14
Ballona Creek toxics	Approved	6/17/14
Region 5		
Region 6		
Region 7		
Region 8		
Region 9		
Los Penesquitos sediment	Approved	1/21/14

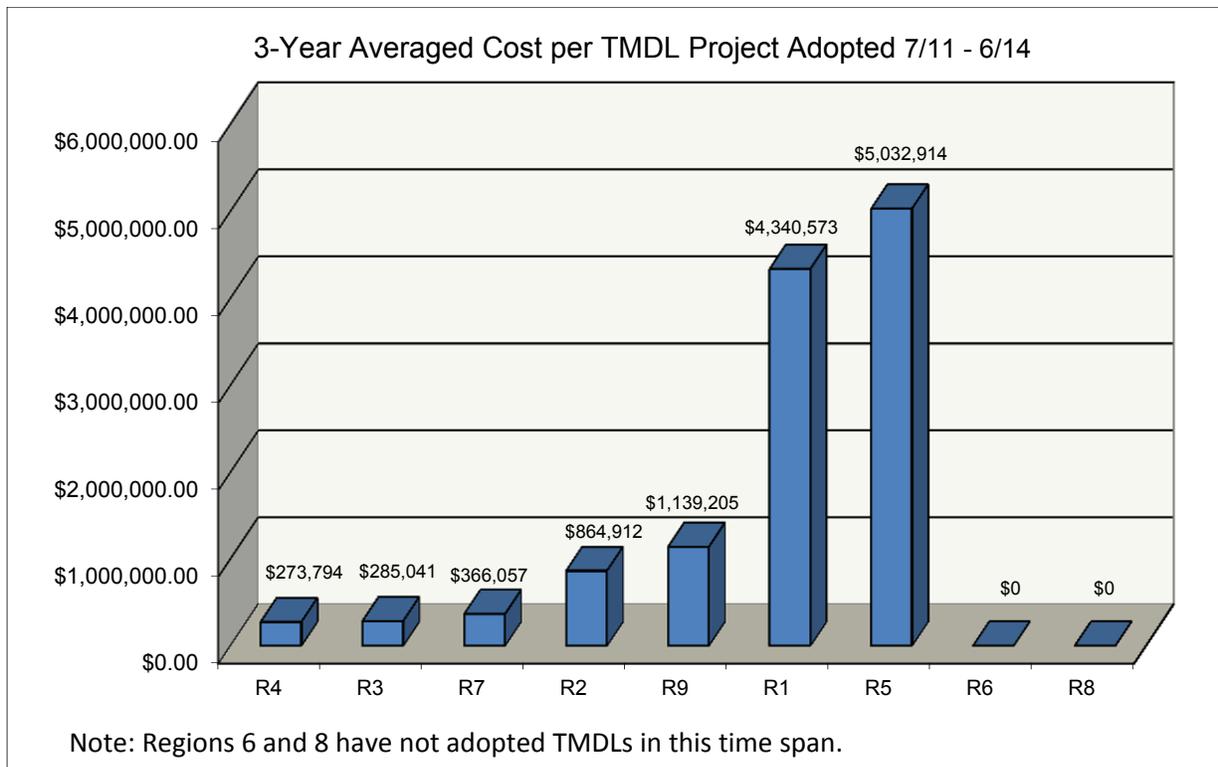
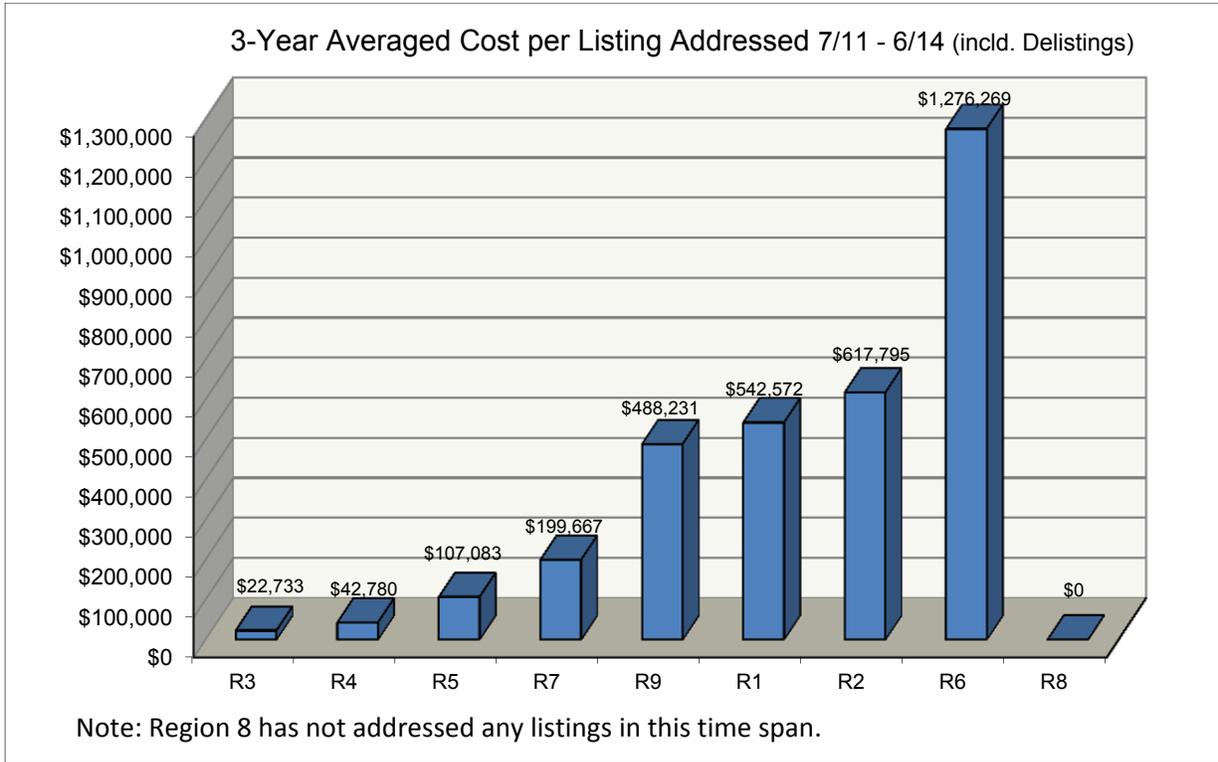
Statewide Trends and Status

Short Term Trends

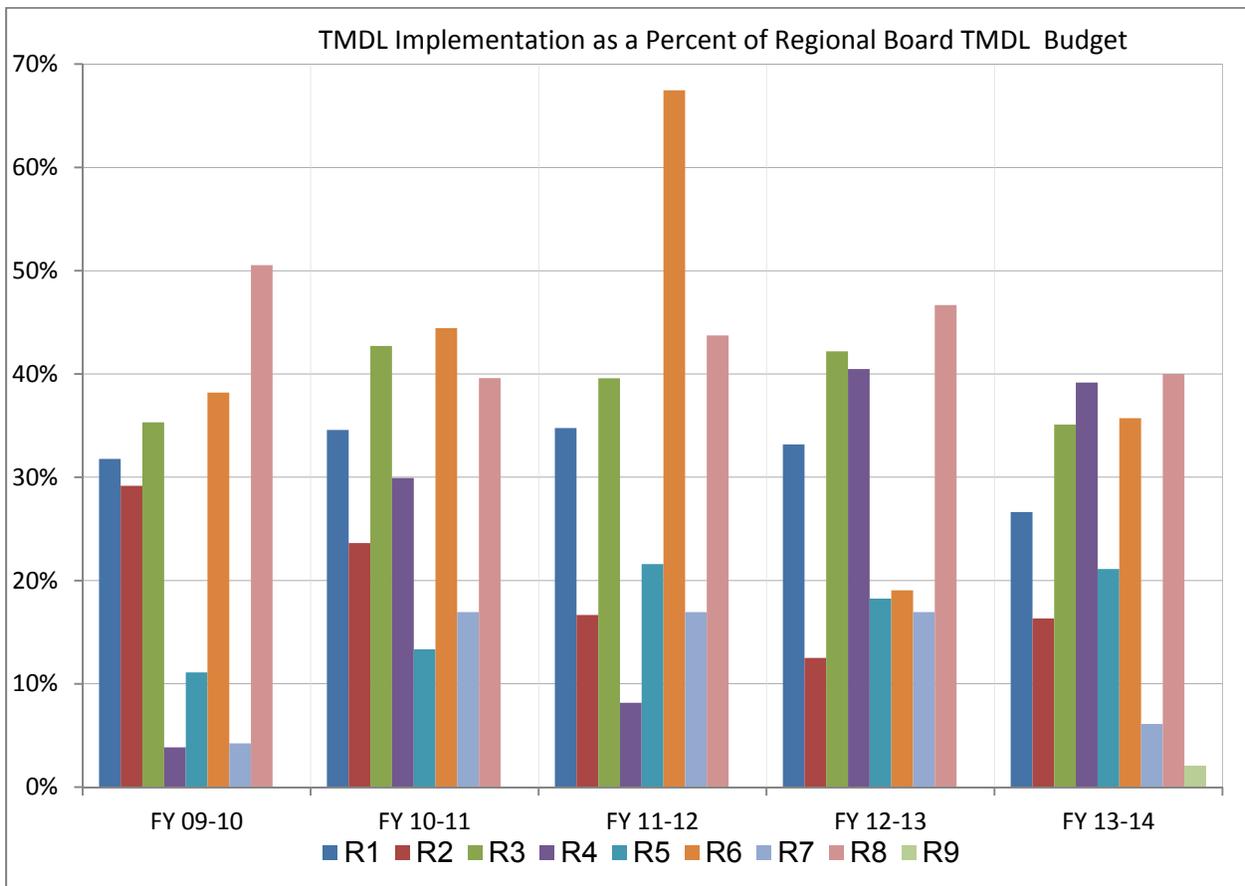
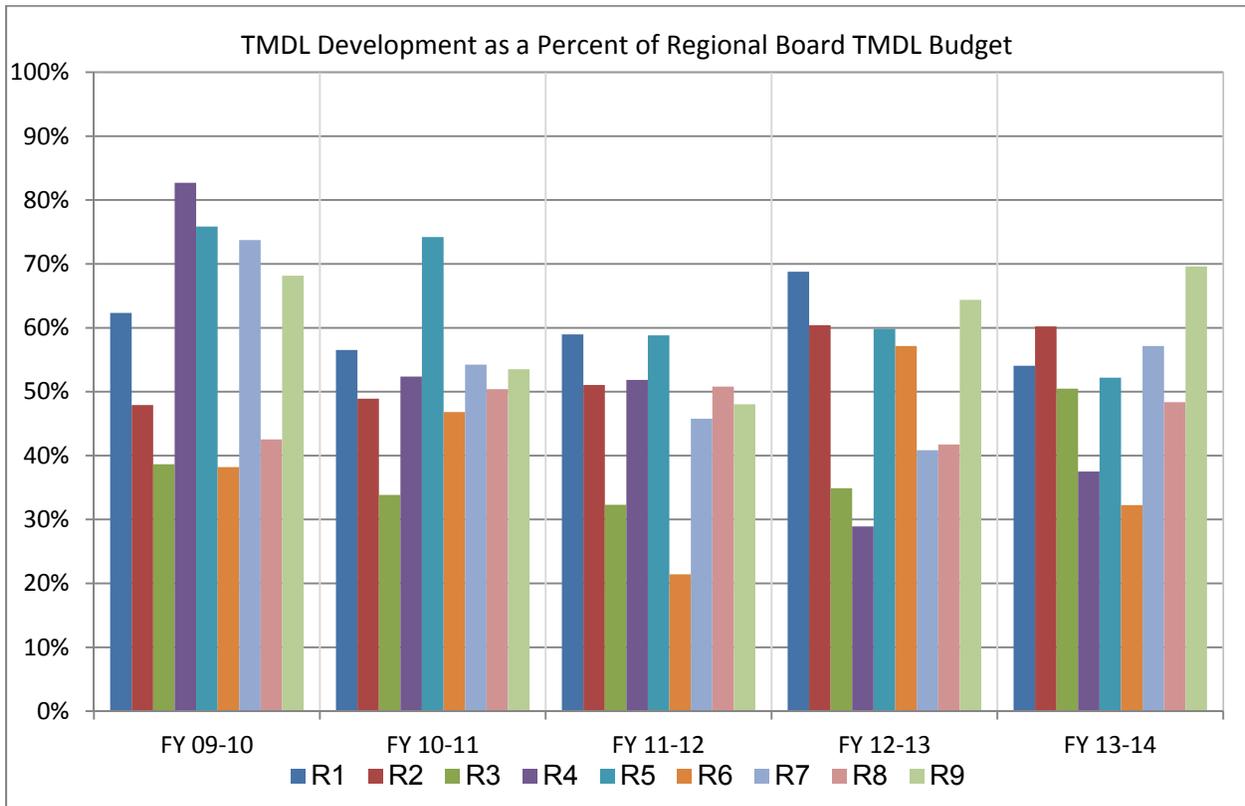
Program Performance: 3-Year Averages



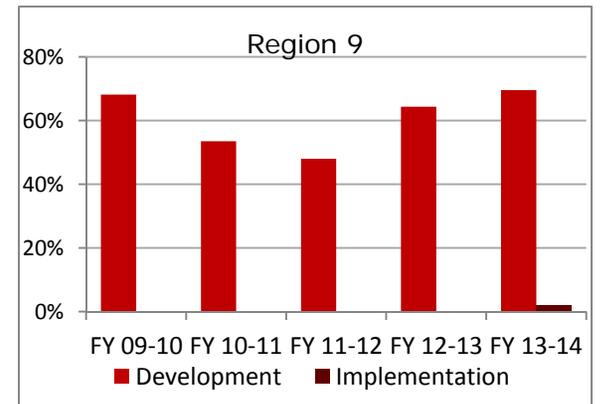
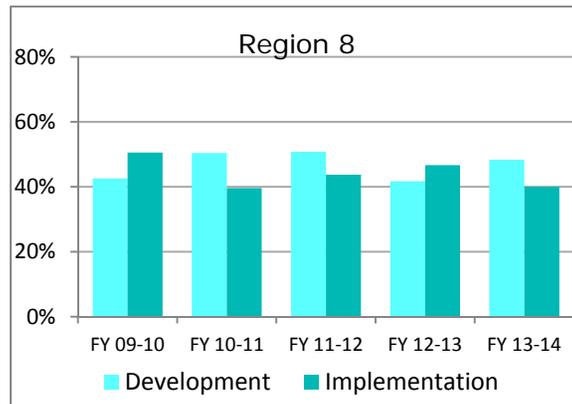
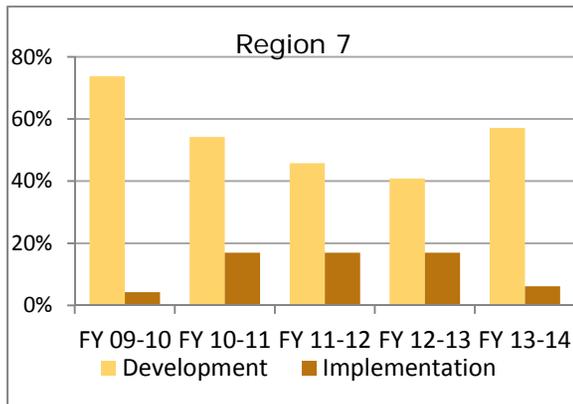
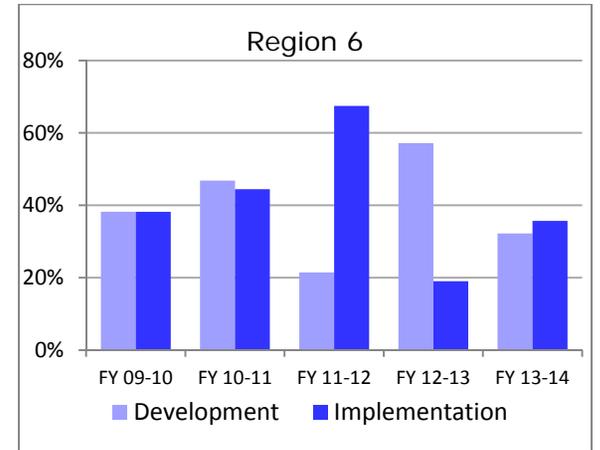
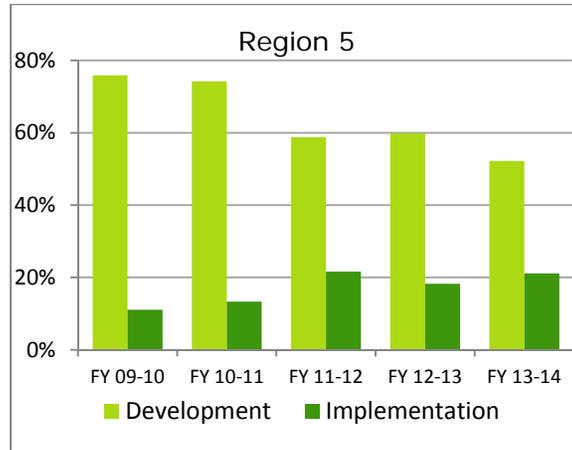
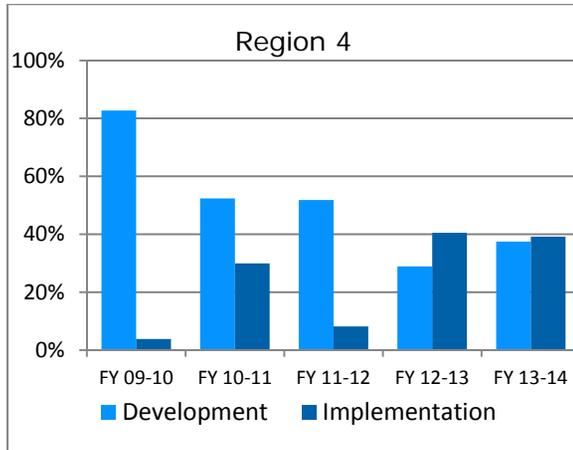
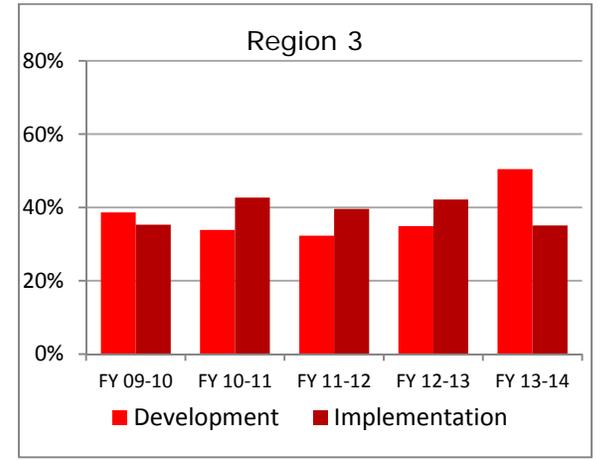
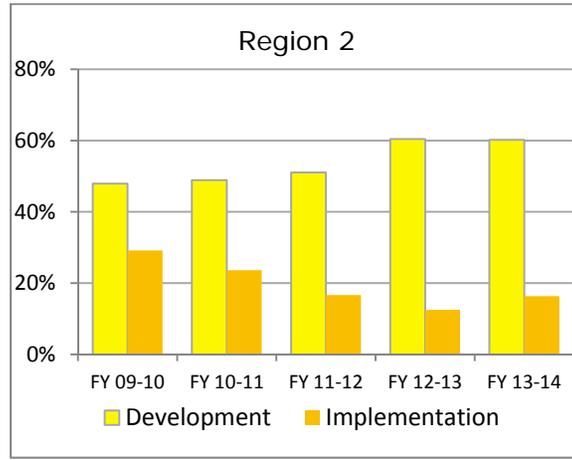
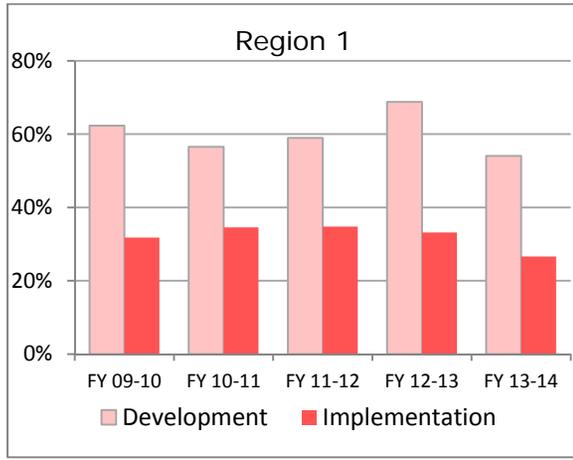
Program Performance: 3-Year Averages



5 year Statewide Trends

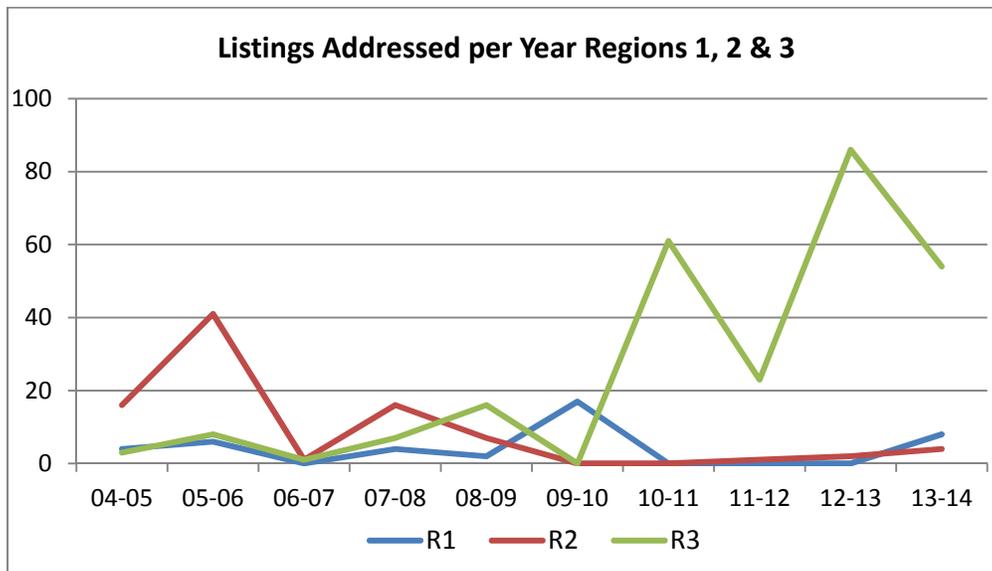
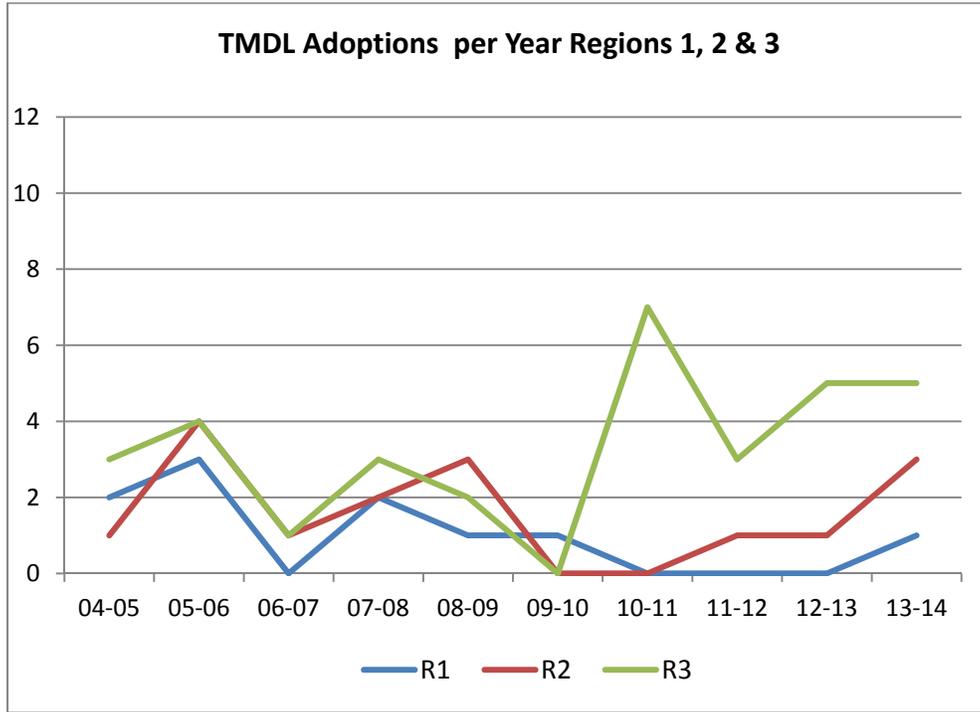


5 Year Regional Trends

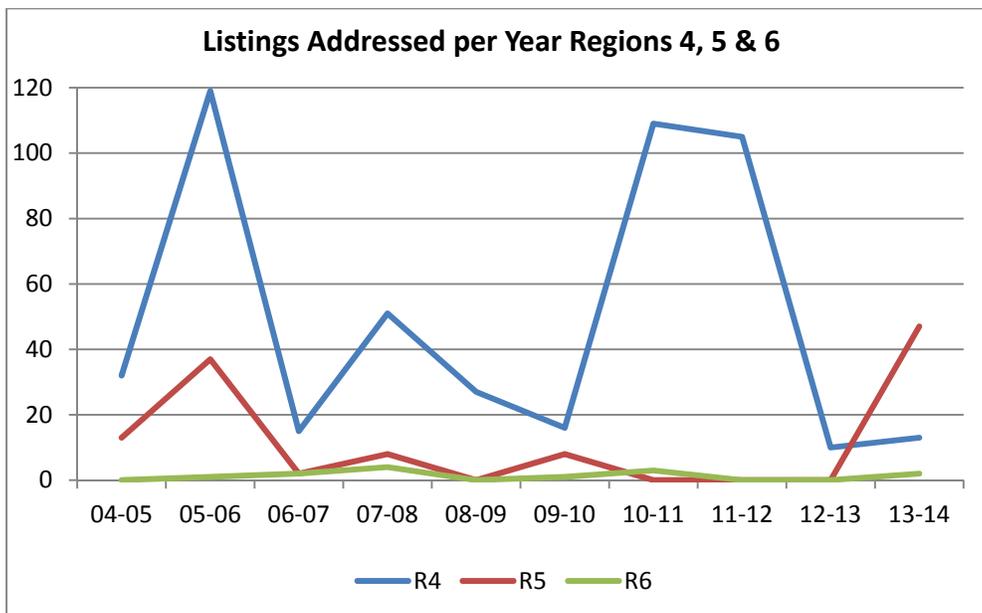
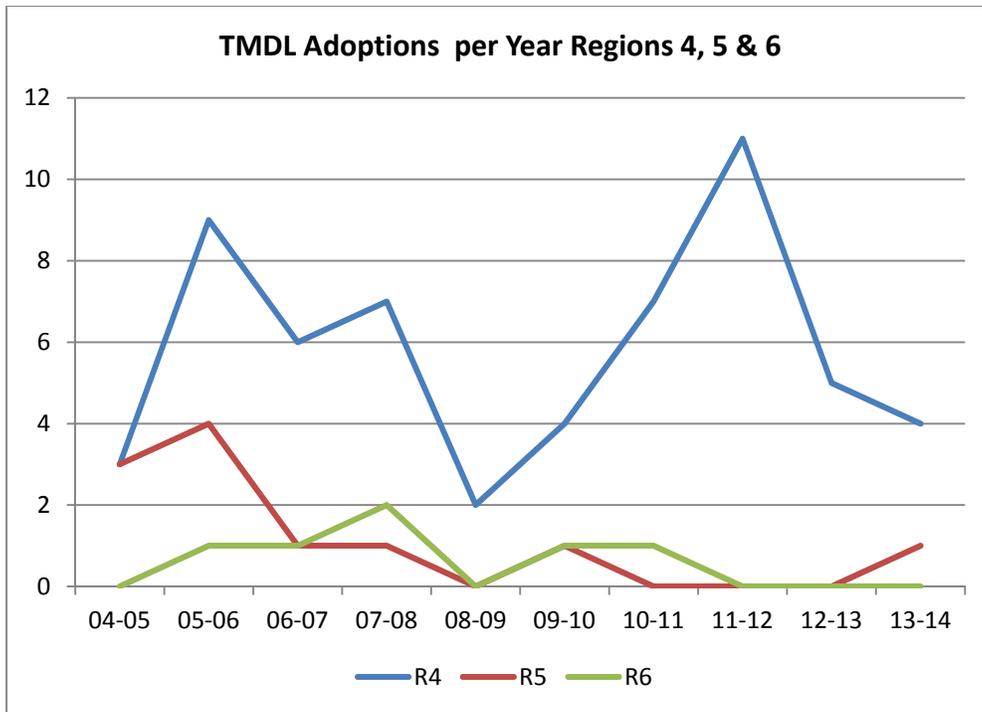


10-Year Trends

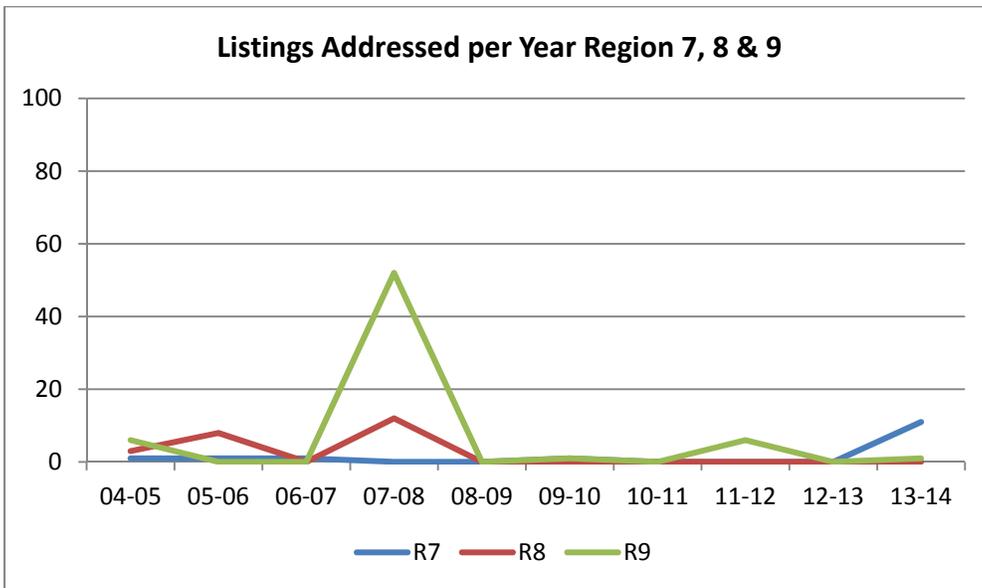
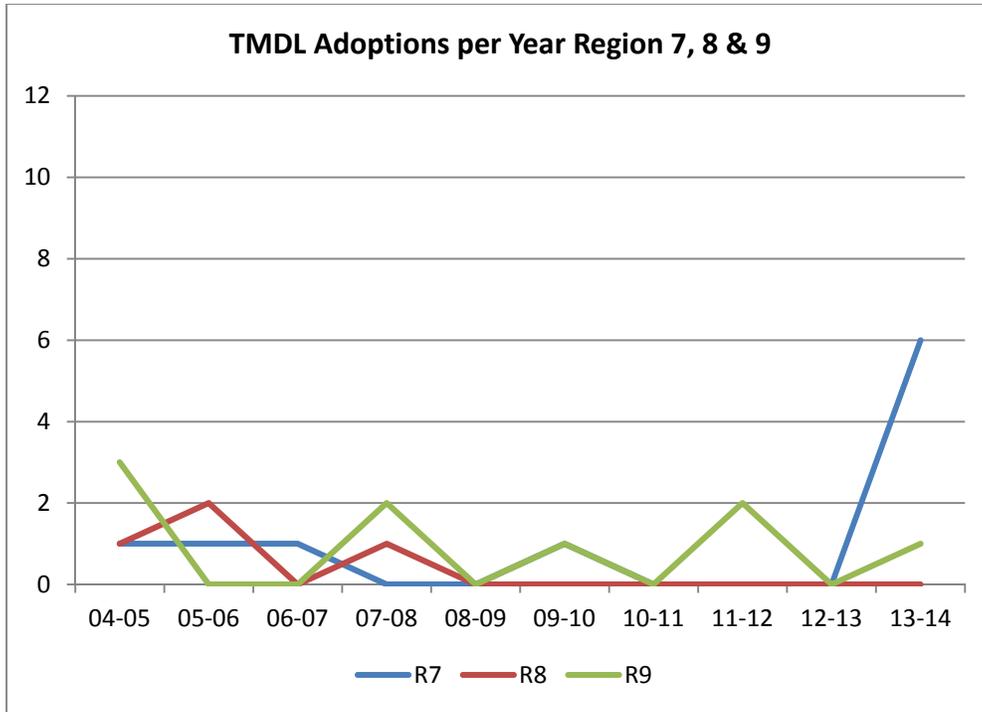
Program Performance: 10-Year Trend By Region



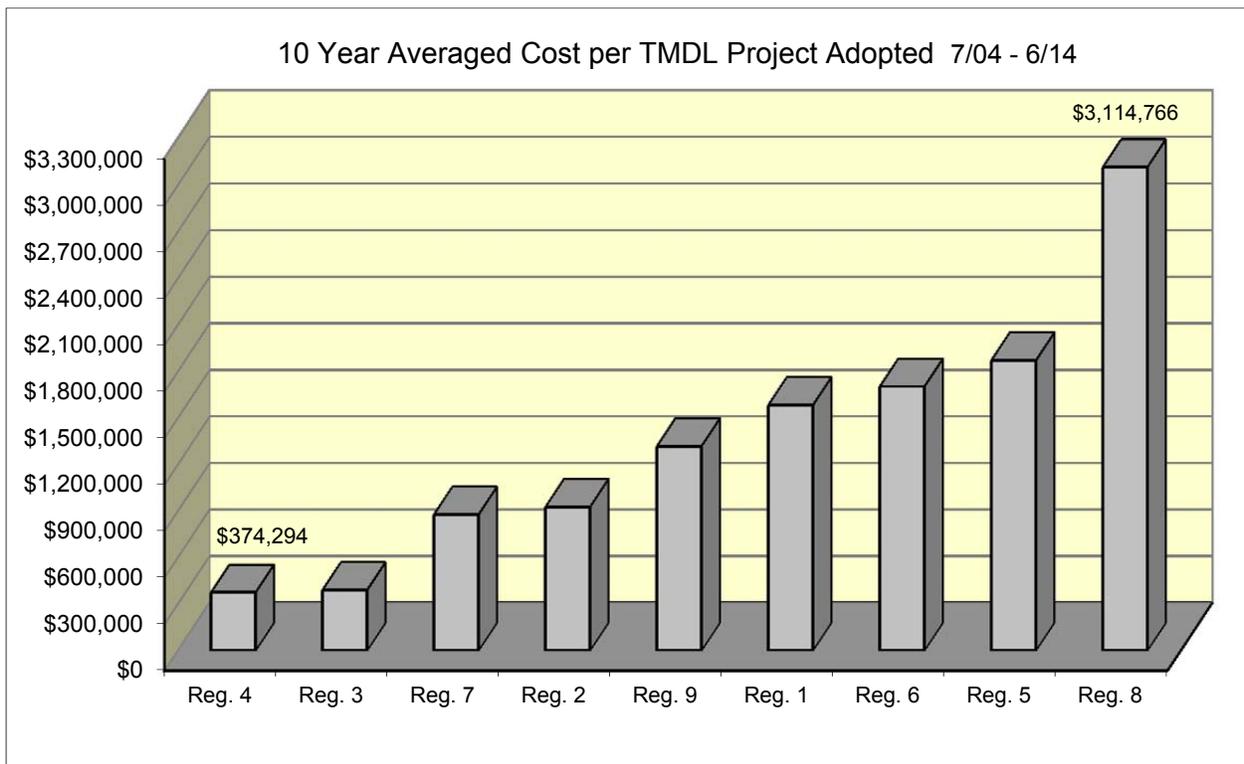
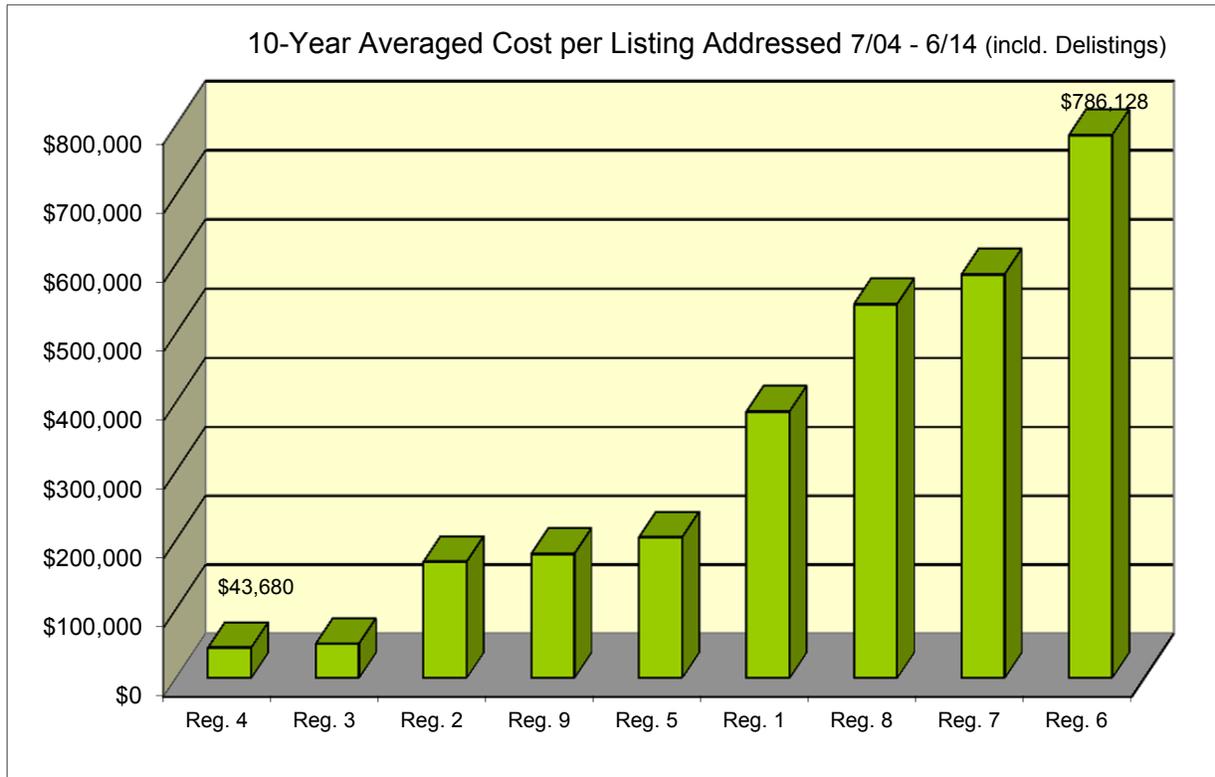
Program Performance: 10-Year Trend By Region



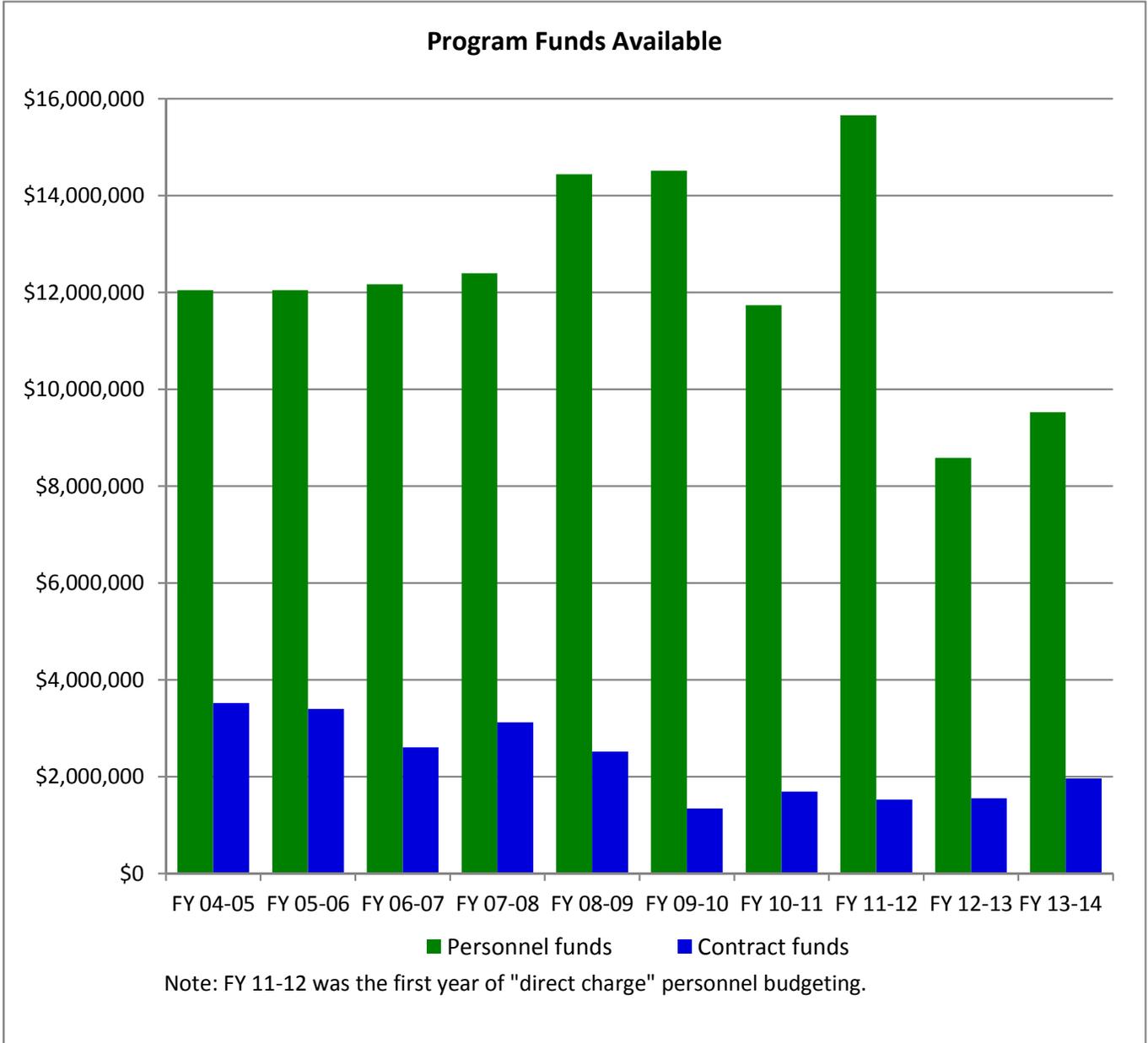
Program Performance: 10-Year Trend By Region



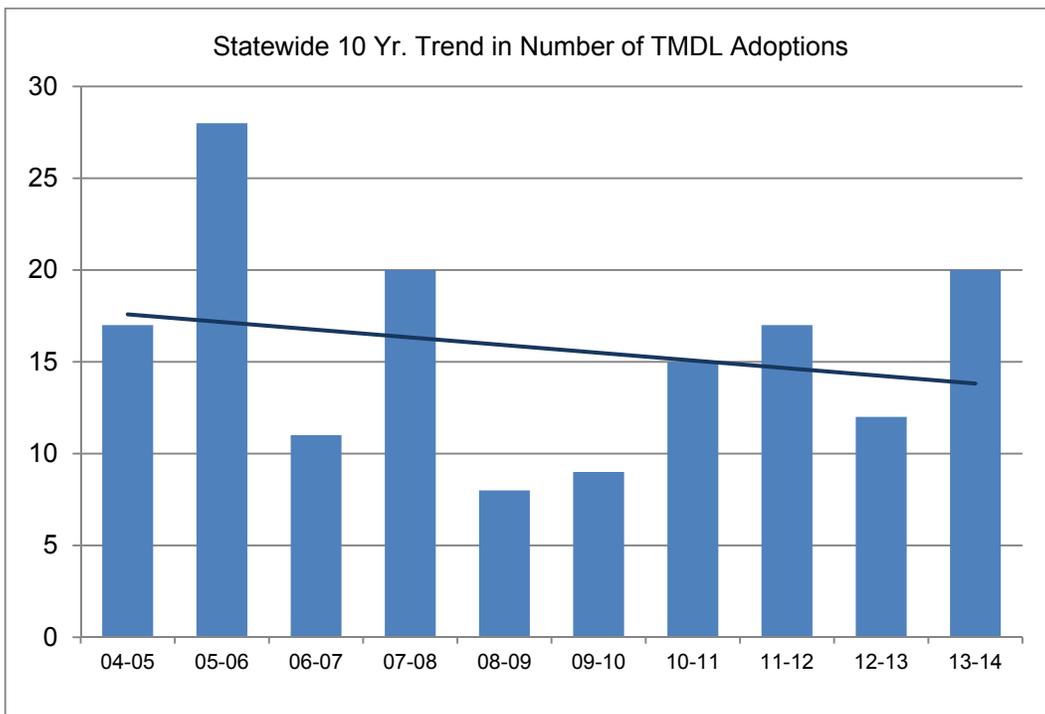
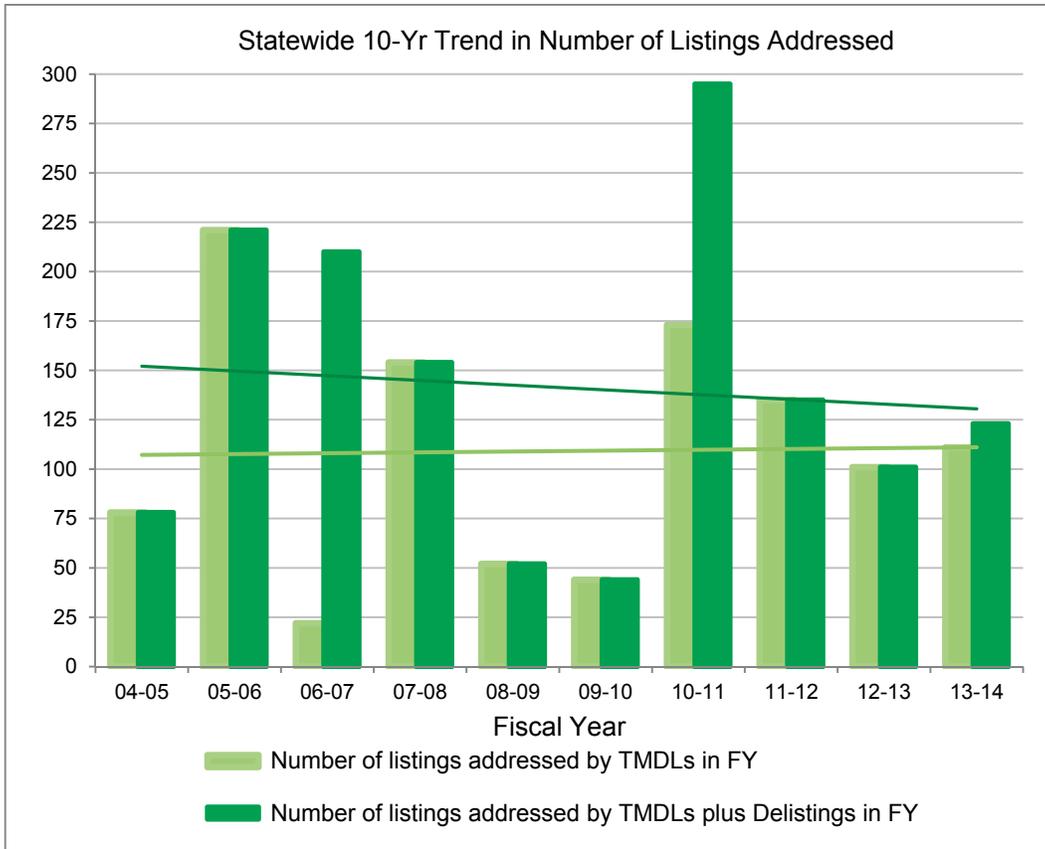
Program Performance: 10-Year Averages – Costs



10-Year Trend: Program Funds Available

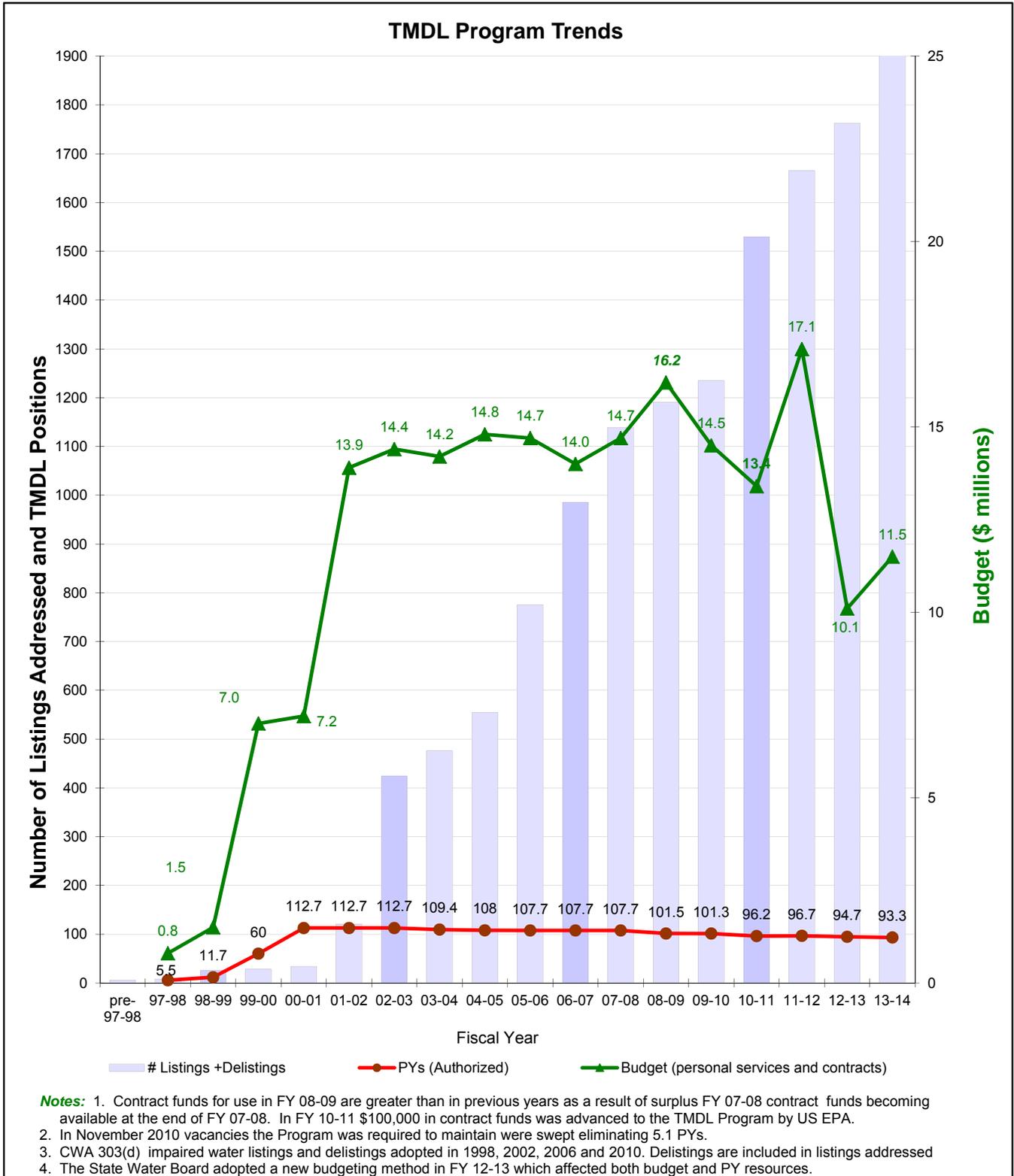


Program Performance Statewide 10 Year Trends

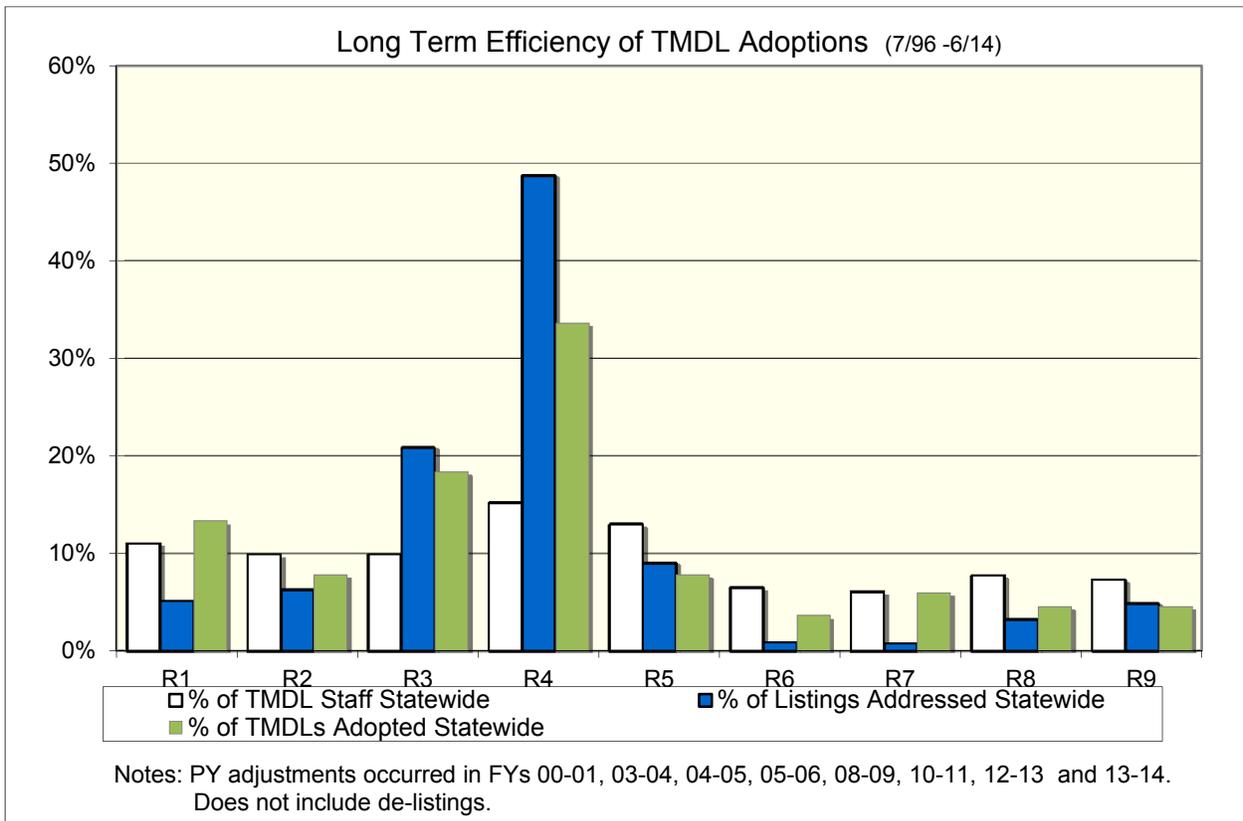
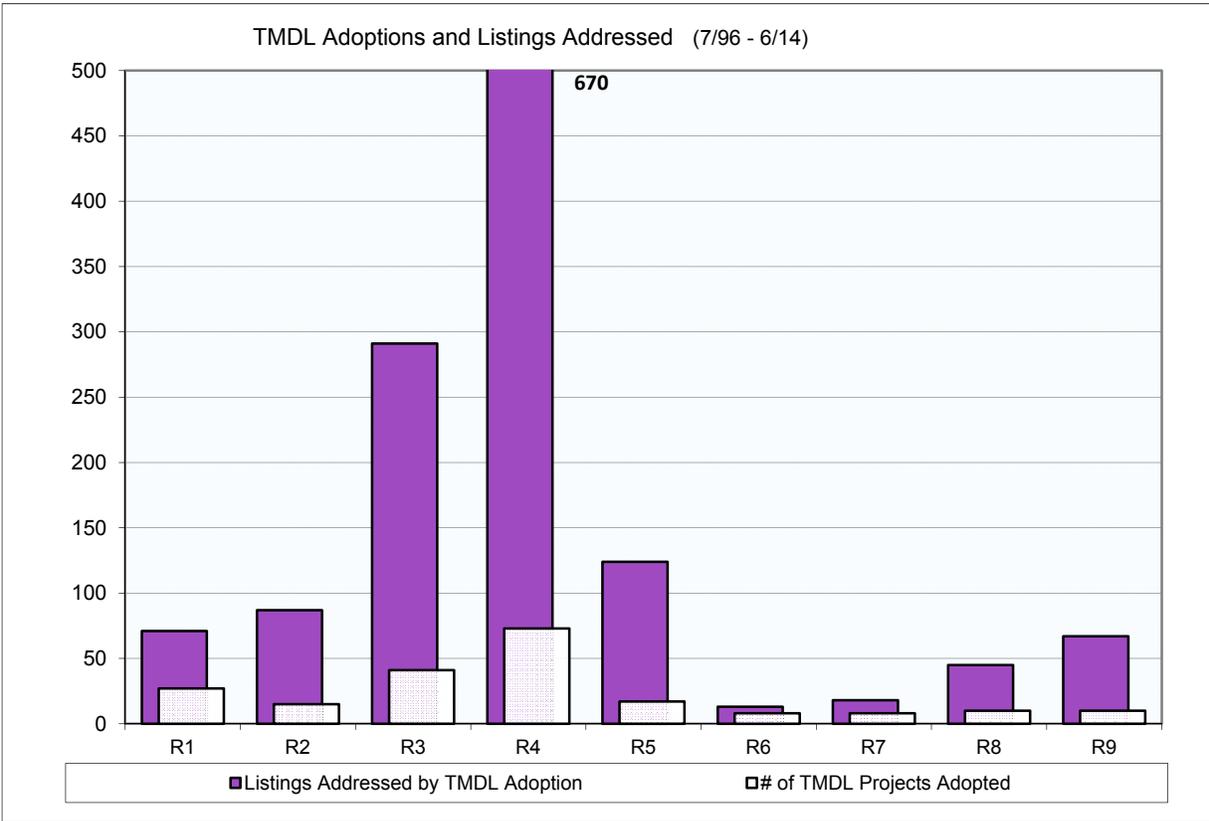


Long Term Trends

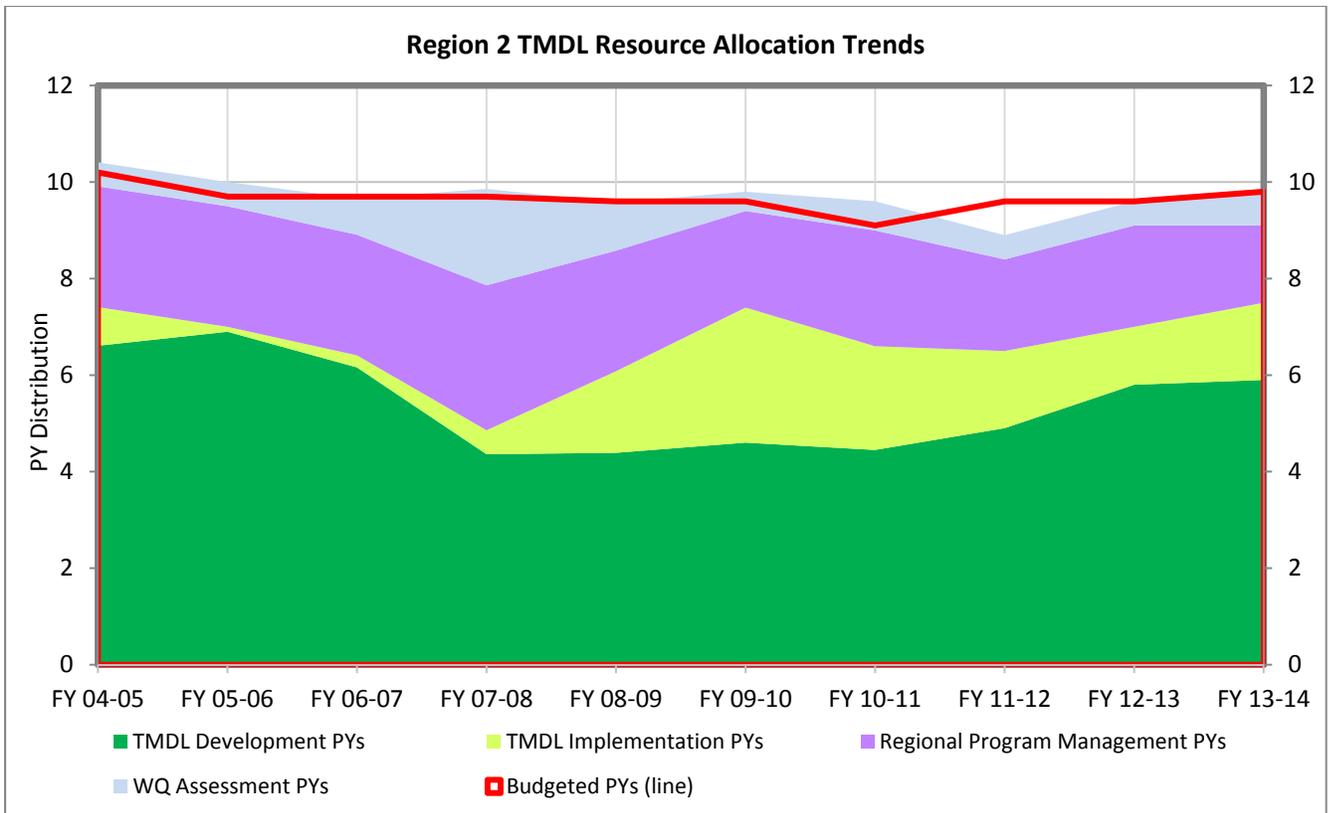
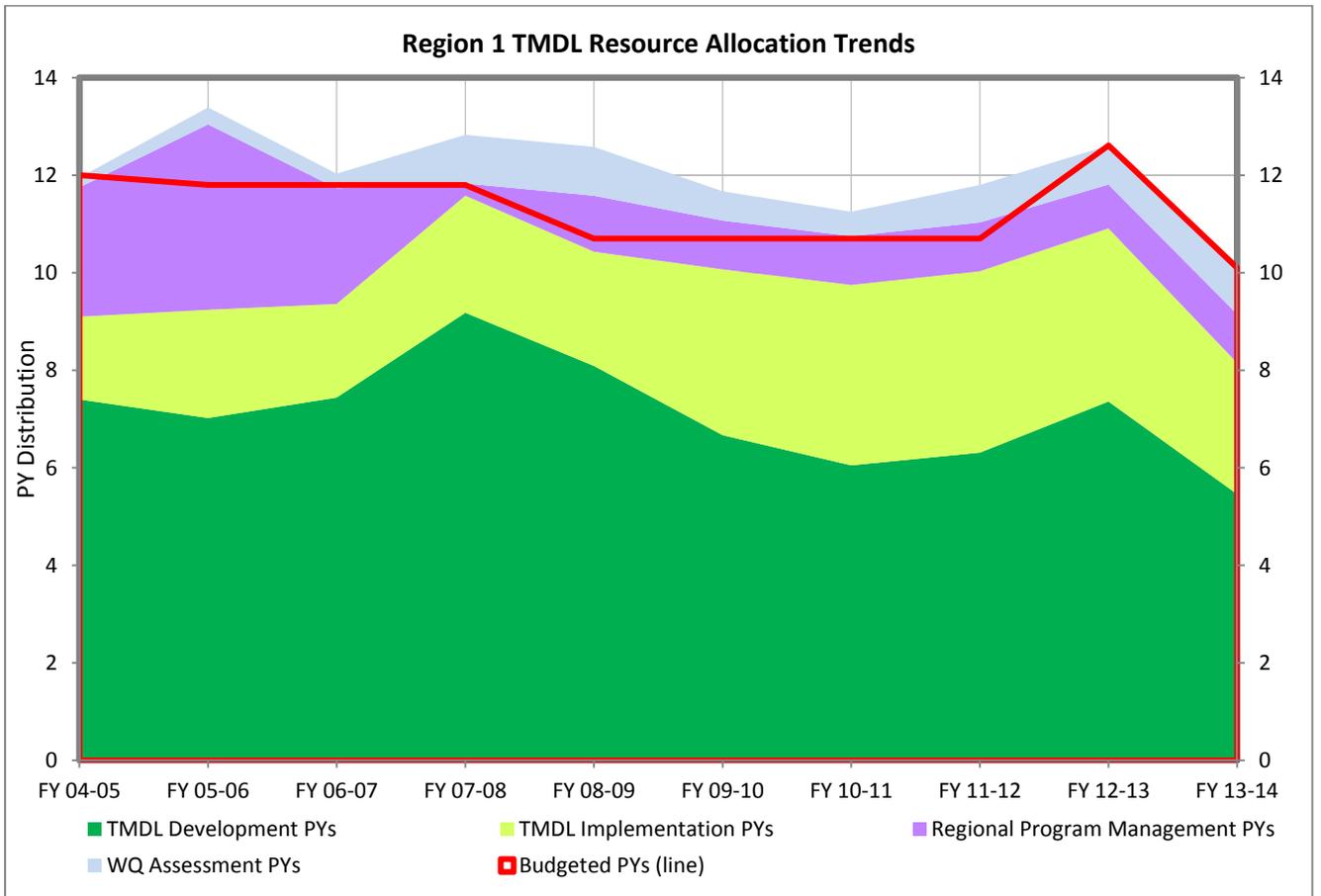
Program Performance: Long Term Trends Summary



TMDL Adoption Long Term Trends

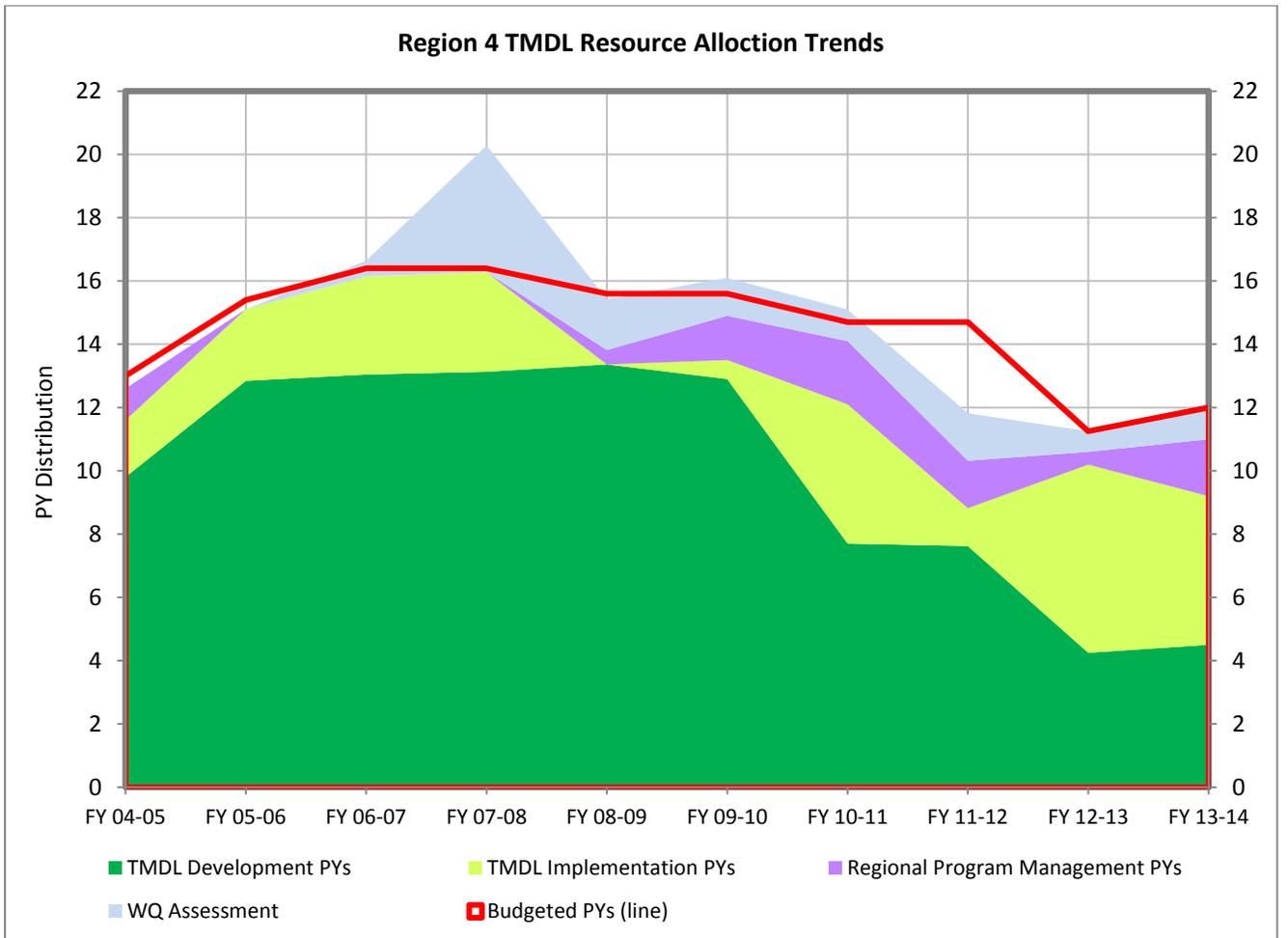
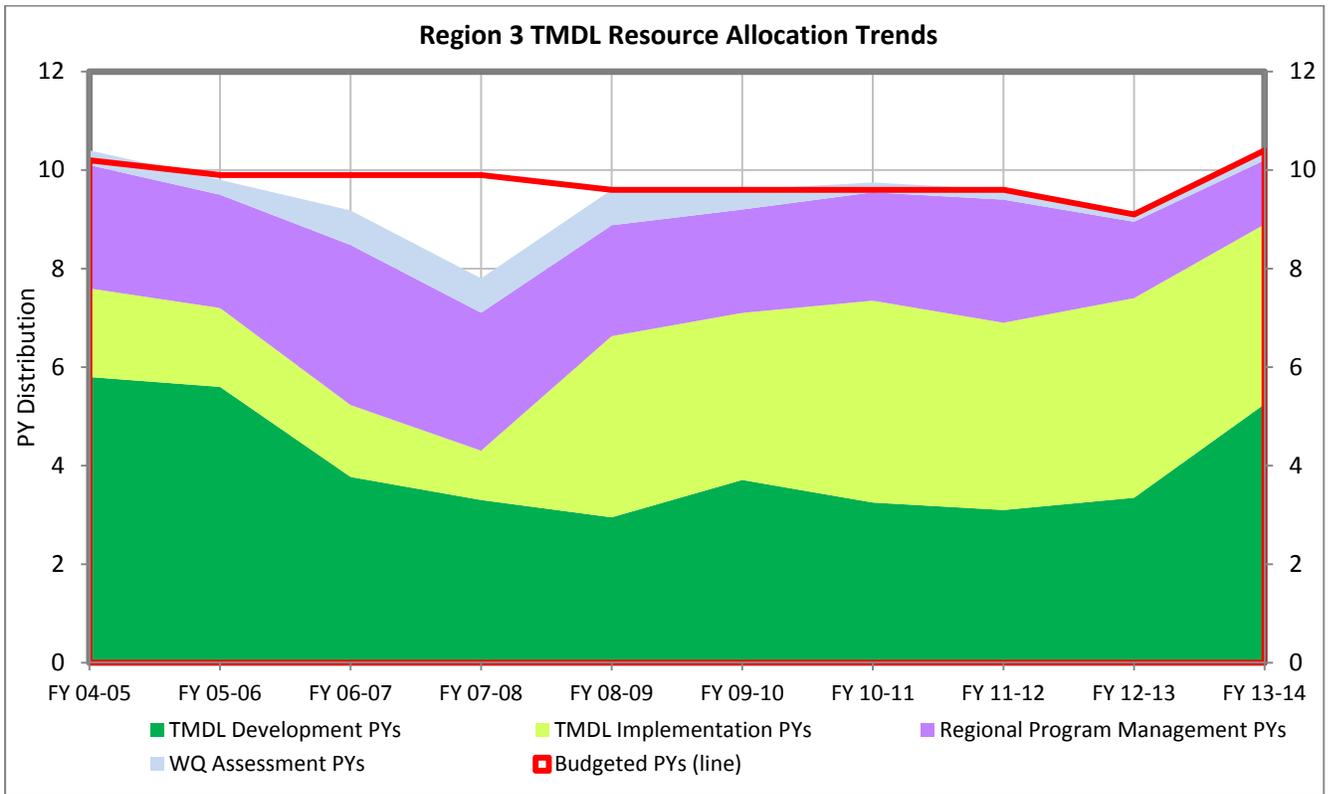


Resource Allocation Trends



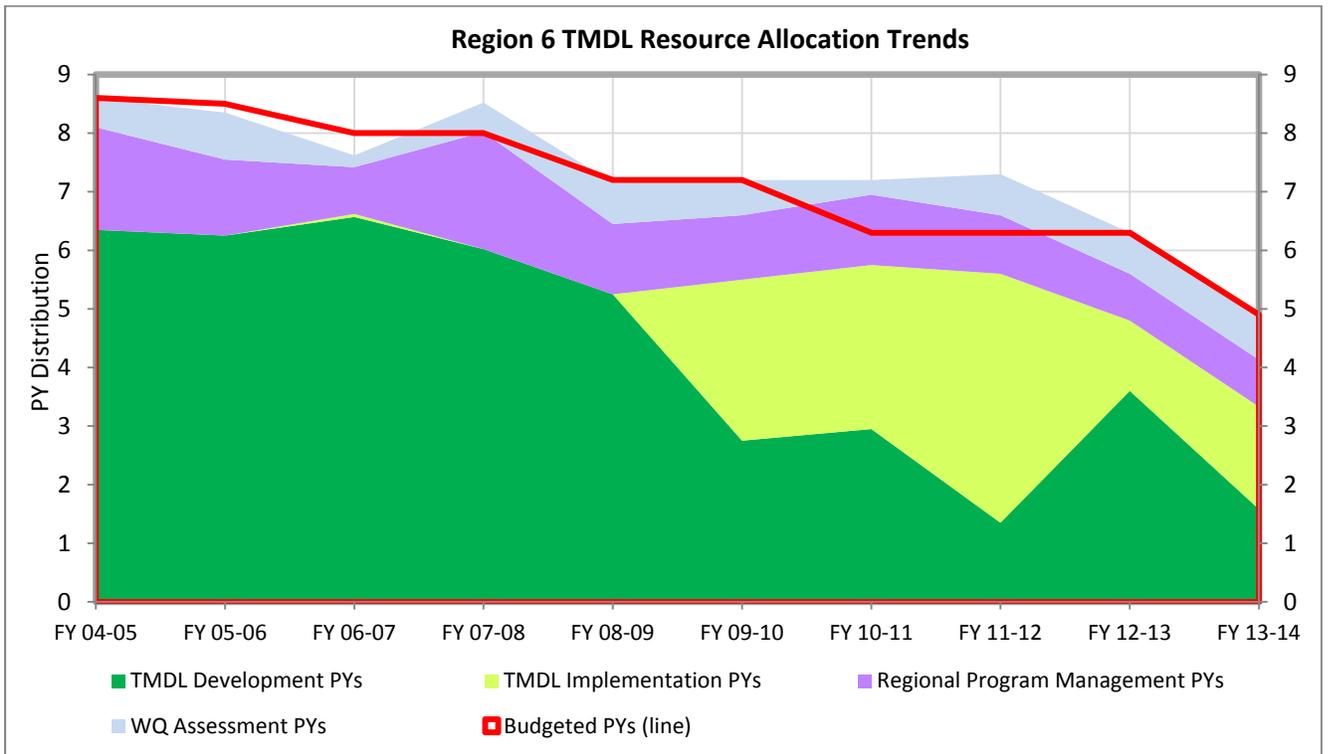
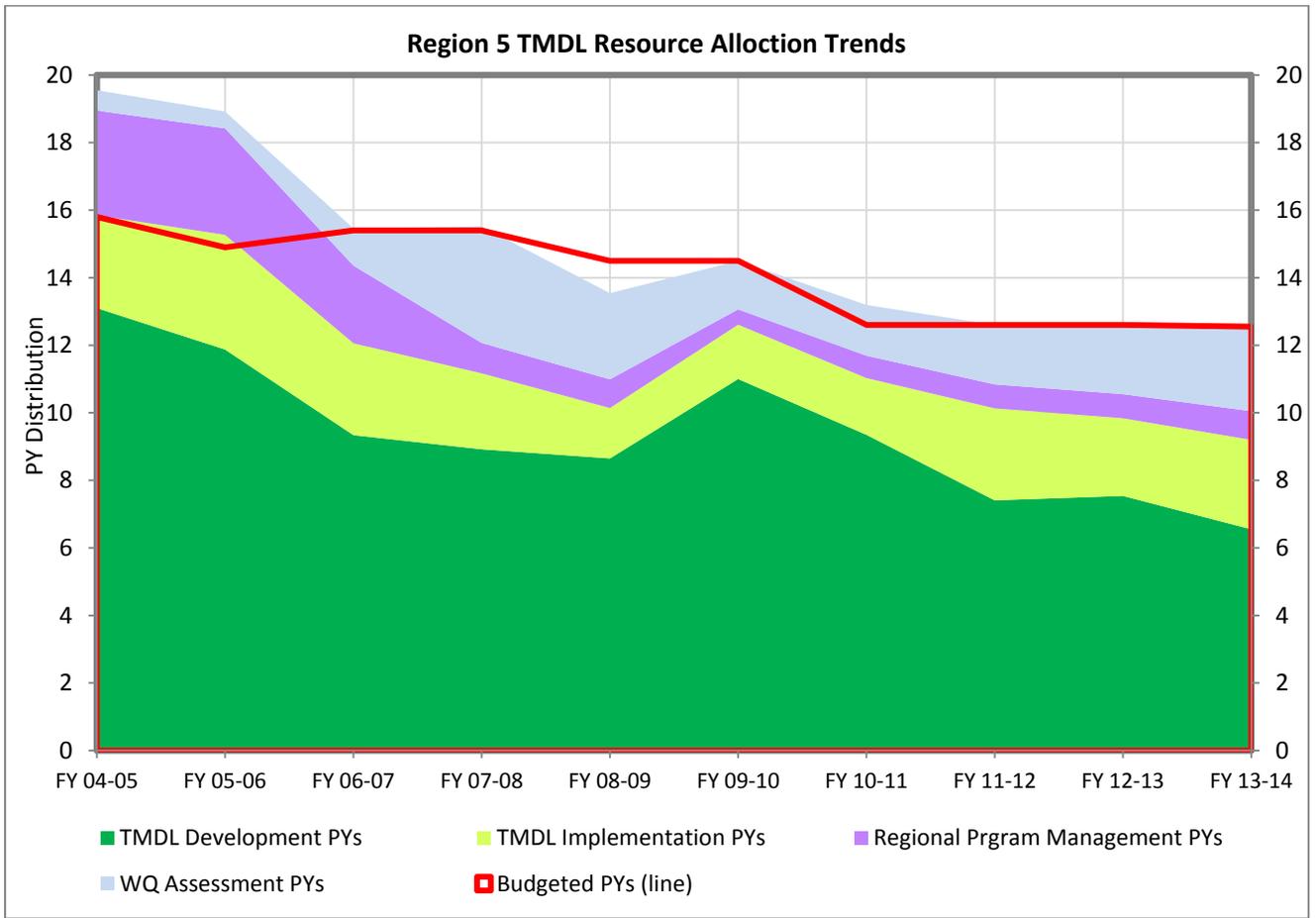
NOTE: A hiring freeze was in effect in FY 10-11 and part of FY 11-12.

Resource Allocation Trends



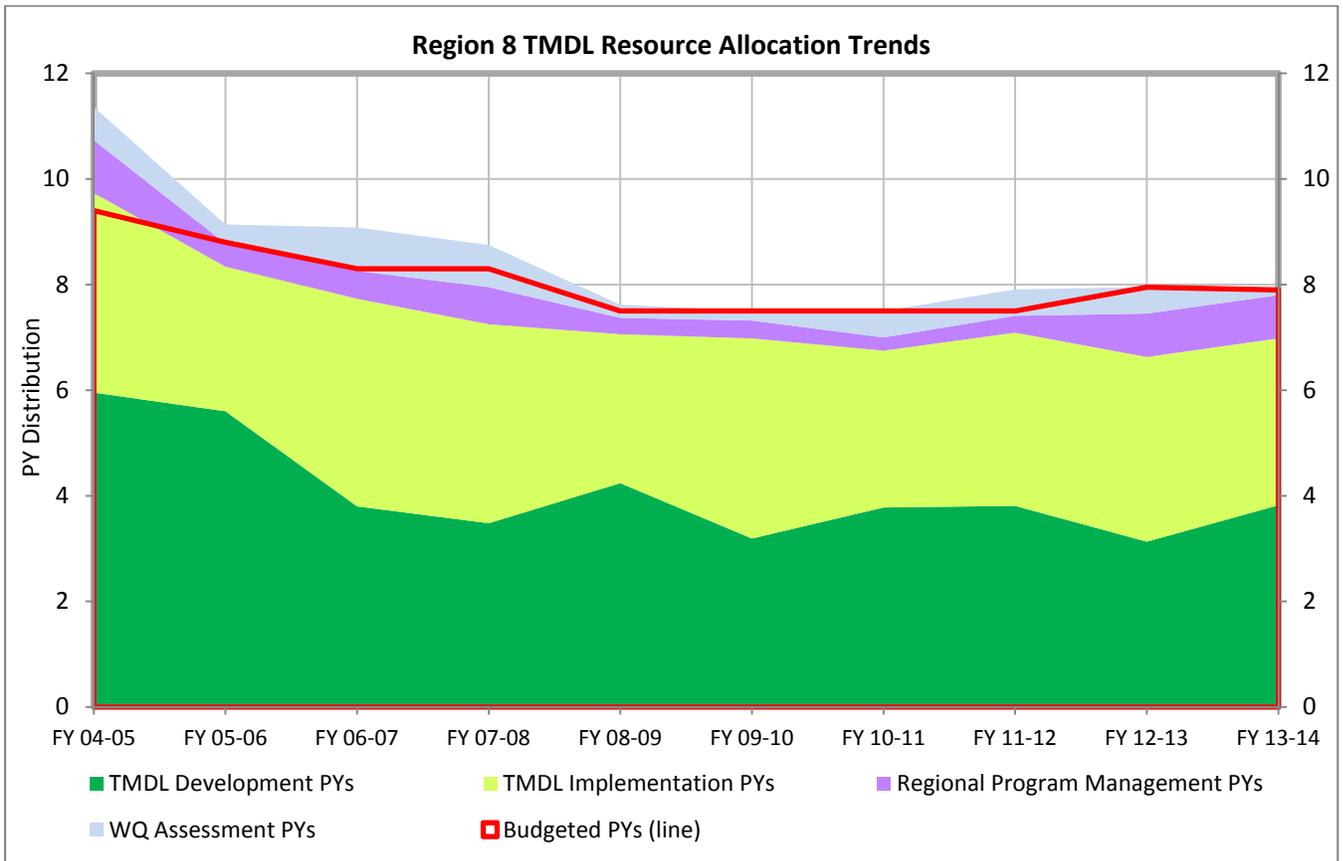
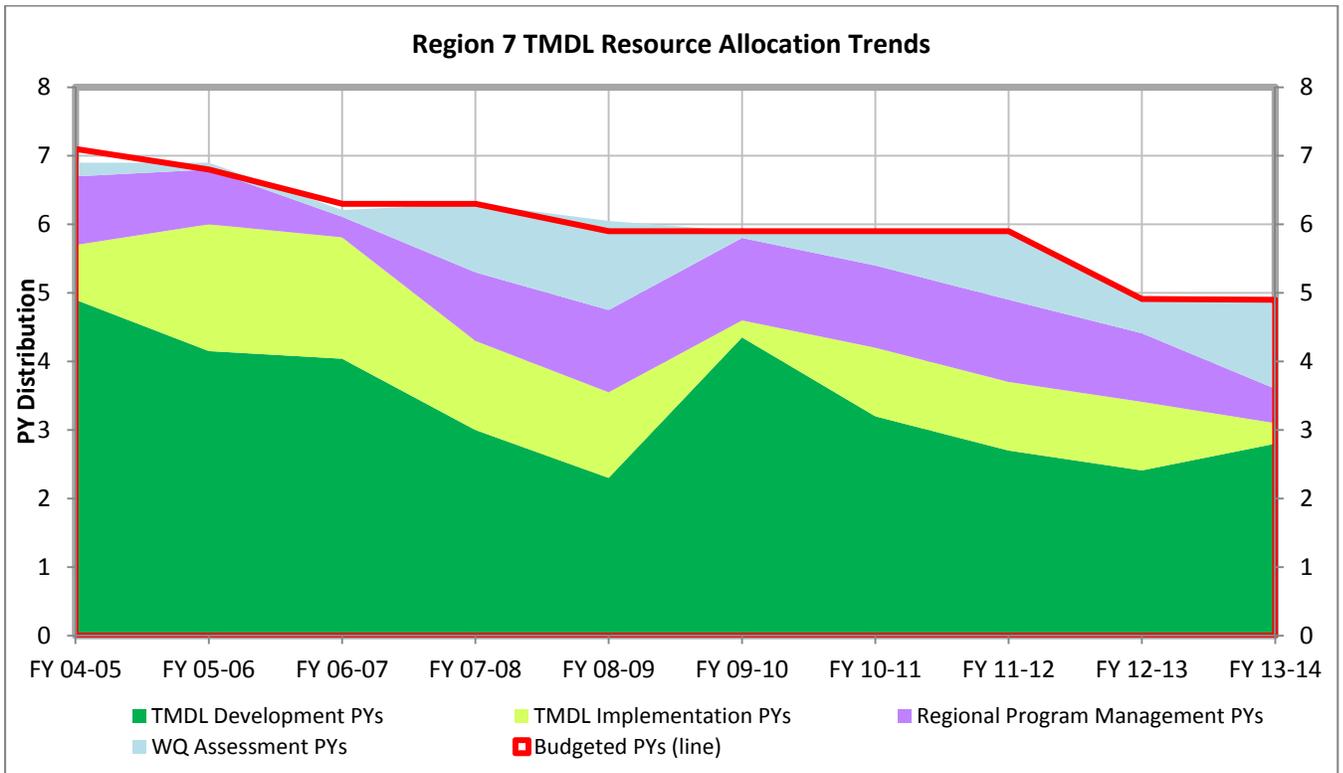
NOTE: A hiring freeze was in effect in FY 10-11 and part of FY 11-12.

Resource Allocation Trends



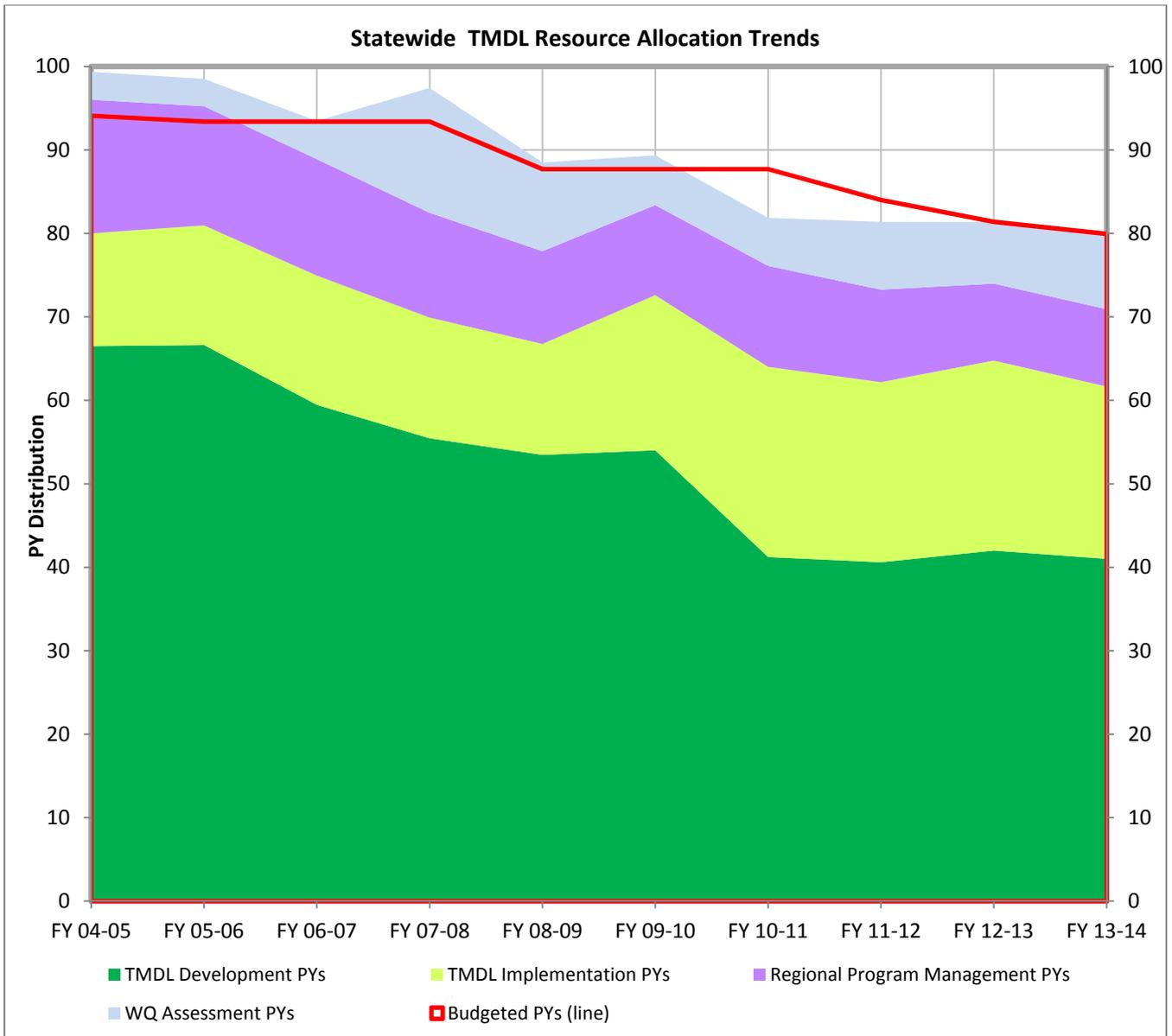
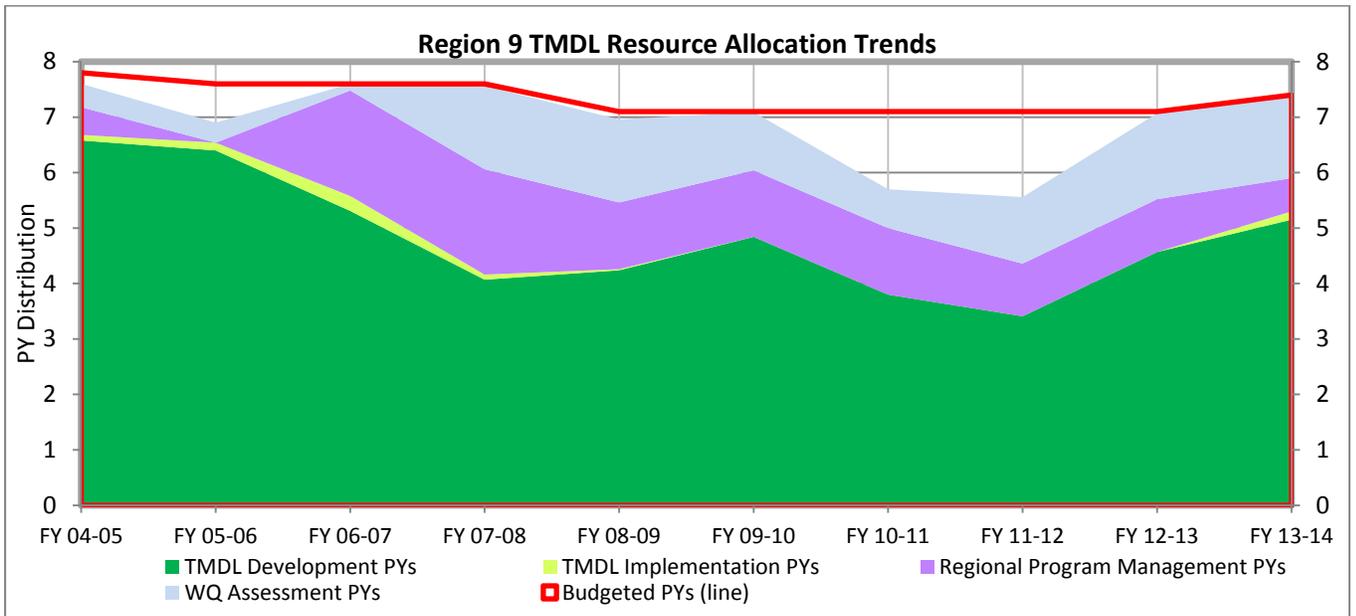
NOTE: A hiring freeze was in effect in FY 10-11 and part of FY 11-12.

Resource Allocation Trends



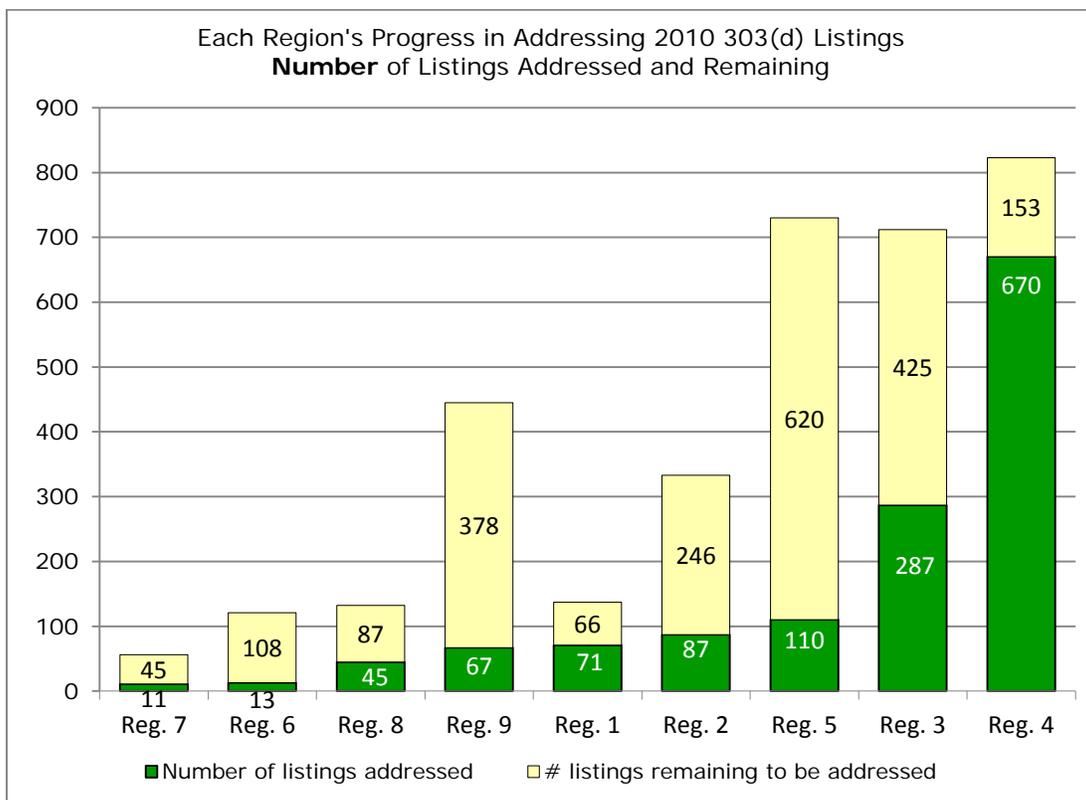
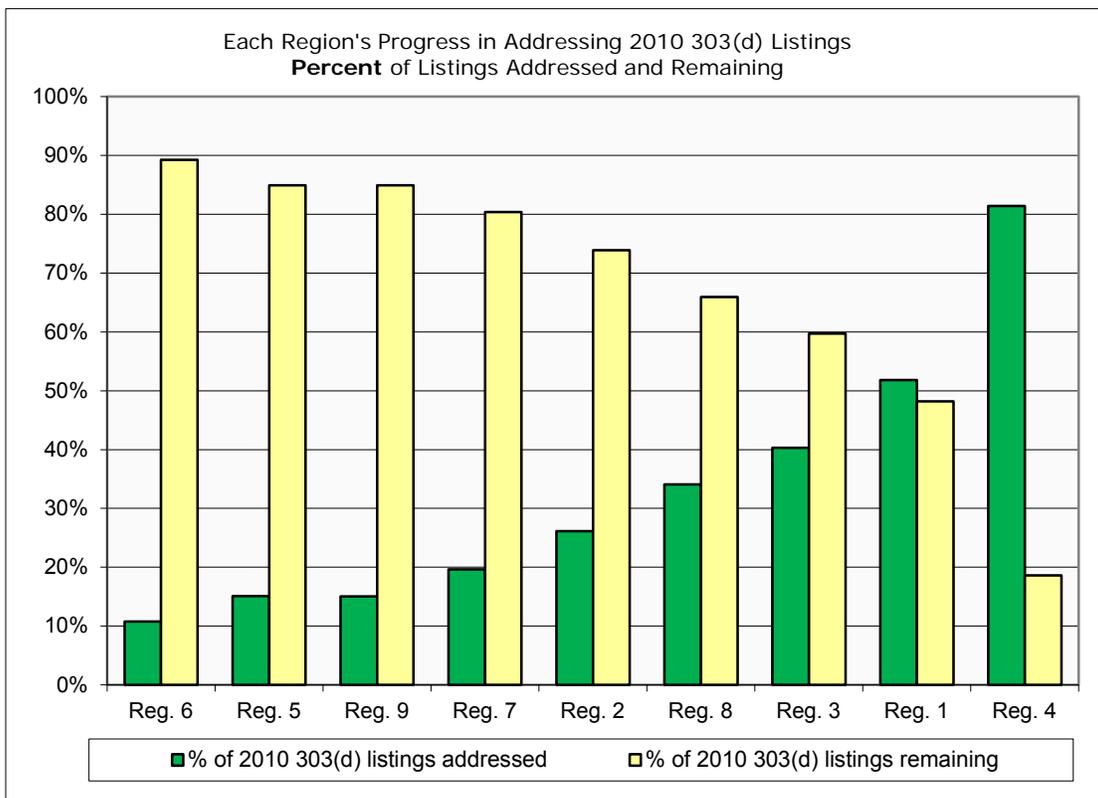
NOTE: A hiring freeze was in effect in FY 10-11 and part of FY 11-12.

Resource Allocation Trends

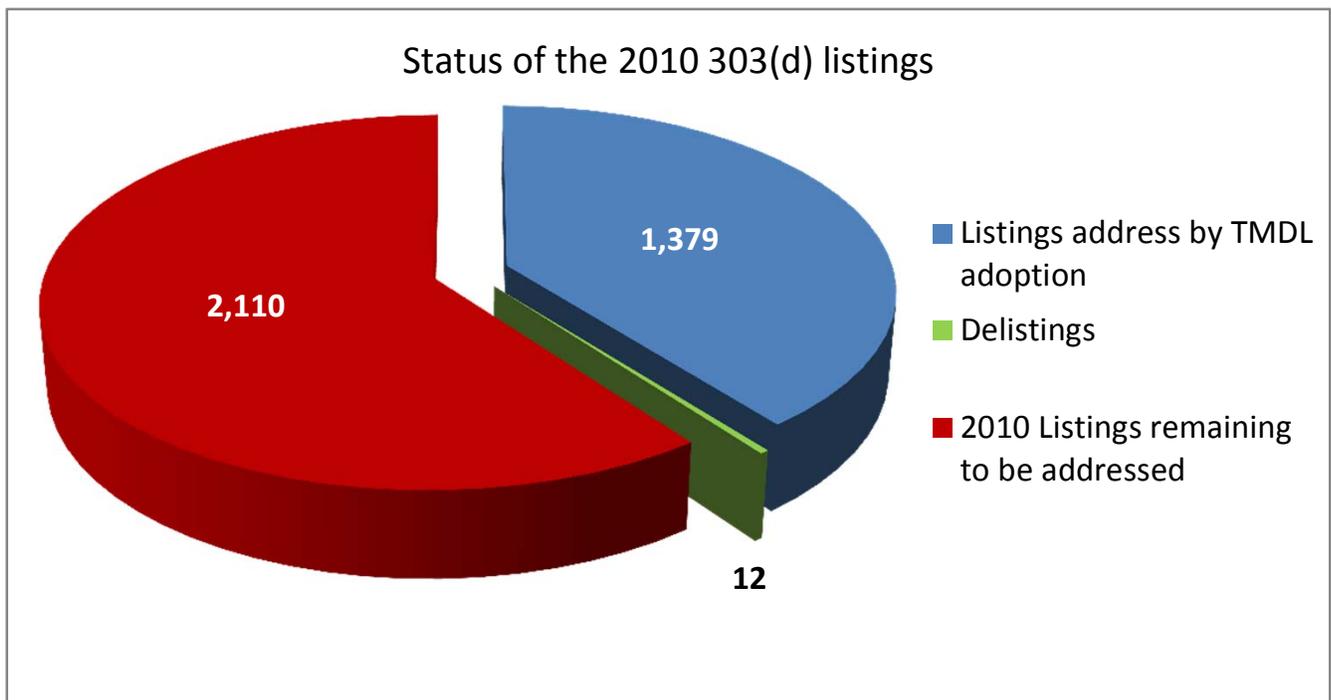


NOTE: A hiring freeze was in effect in FY 10-11 and part of FY 11-12.

Addressing 303(d) Listings



Regional Board Progress in Addressing 303(d) Listings



Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
1	Laguna de Santa Rosa ammonia and D.O.	2			5/95	EPA established with RB assistance
1	Stemple Creek nutrients and sediment	2	12/97, 11/04			RB adopt, no SB approval; RB resolution directs implementation.
1	Garcia River sediment	1	5/98, 12/98 6/01	9/00, 11/01	3/02	
1	Redwood Creek sediment [workplan]	1	11/04		12/98	RB resolution directing staff to implement EPA established TMDL
1	Eel River South Fork sediment (HA111.30)	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
	Eel River South Fork temperature (HA111.30)	1	--		12/99	EPA established TMDL with RB assistance
1	Noyo River sediment	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Van Duzen River sediment	1	11/04		12/99	RB resolution directing staff to implement EPA established TMDL
1	Navarro River sediment	2	11/04		12/00	RB resolution directing staff to implement EPA established TMDL
	Navarro River temperature	1	--		12/00	EPA established TMDL with RB assistance
1	Ten Mile River sediment	1	11/04		12/00	RB resolution directing staff to implement EPA established TMDL
1	Albion River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Big River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Gualala River sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Trinity River sediment	4	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Trinity River South Fork sediment	1	11/04		12/01	RB resolution directing staff to implement EPA established TMDL
1	Eel River North Fork sediment (HA111.50)	1	11/04		12/02	RB resolution directing staff to implement EPA established TMDL
	Eel River North Fork temperature (HA111.50)	2	--		12/02	EPA established TMDL with RB assistance
1	Eel River Middle Fork sediment (HA111.70)	1	11/04		12/03	RB resolution directing staff to implement EPA established TMDL
	Eel River Middle Fork temperature (HA111.70)	2	--		12/03	EPA established TMDL with RB assistance
1	Mattole River sediment	1	11/04		12/03	RB resolution directing staff to implement EPA established TMDL
	Mattole River temperature	1	--		12/04	EPA established TMDL with RB assistance
1	Eel River Upper Main sediment (HA111.60)	1	11/04		12/04	RB resolution directing staff to implement EPA established TMDL
	Eel River Upper Main temperature (HA111.60)	1	--		12/04	EPA established TMDL with RB assistance
1	Salmon River temperature	2	6/05		8/05	Single action TMDL: MOU with US Forest Service
1	Eel River Middle Main sediment (HA111.40)	1	11/04		12/05	EPA established, RB implement under R1-2004-0087
	Eel River Middle Main temperature (HA111.40)	1	--		12/05	EPA established TMDL with RB assistance
1	Scott River sediment and temperature	2	12/05	6/06	9/06	
1	Shasta River D.O. and temperature	2	6/06	11/06	1/07	
1	Eel River Lower Main sediment (HA111.10)	1	11/04		12/07	EPA established, RB implement under R1-2004-0087
	Eel River Lower Main temperature (HA111.10)	1	--		12/07	EPA established TMDL with RB assistance
1	Mad River sedimentation and turbidity	2	11/04		12/07	EPA established, RB implement under R1-2004-0087
1	Lower Lost River (technical TMDL)	2	11/04		12/08	EPA established, RB implement under R1-2004-0087
1	Klamath River nutrients, temperature, D.O., microcystin	17	3/10	9/10	12/10	3 microcystin listings were added between listing cycles by EPA
1	Eel, Mattole, & Navarro Temperature TMDL Action Plans	8	3/14			RB implementation plan for existing EPA-established TMDL
Listings Addressed		71				
2	San Francisco Bay copper & nickel site-specific objectives	2	5/02	10/02	1/03	SSO
2	San Francisco Bay mercury	16	9/04; 8/06	7/07	2/08	SB remanded TMDL 9/05; R2 readopted TMDL 8/06
2	Tomales Bay pathogen	2	9/05	5/06	1/07	
2	San Francisco Bay urban creeks diazinon	37	10/05	10/06	5/07	
2	Napa River pathogens	1	6/06	9/07	2/08	
2	Sonoma Creek pathogens	1	6/06	9/07	2/08	
2	Napa River sediment	1	1/07, 9/09	10/10	1/11	Withdrawn for CEQA considerations; re-adopted.
2	Walker Creek mercury	1	1/07	7/08	9/08	SB consideration extended to allow E.O. Corrections
2	San Francisco Bay PCBs	15	2/08	10/09	3/10	
2	Richardson Bay pathogens	1	7/08	8/09	12/09	
2	Guadalupe River mercury	5	10/08	11/09	6/10	

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
2	Sonoma Creek sediment	1	12/08	3/10	9/10	
2	Tomales Bay Mercury	1	5/12	--	7/12	Technical TMDL Adopted by RB Resolution/Order.
2	San Mateo Coast Pathogens (Pacifica Beaches and San Pedro Creek)	2	11/12	3/13	8/13	
2	Lagunitas Creek Sediment	1	6/14			
Listings Addressed		87				
Delisted by Resolution (off cycle)						
2	Napa River and Sonoma Creek nutrients	2	3/14	--		Resolution adopting delistings
2	Muir Beach bacteria delisting	1	5/14	--		Resolution adopting delistings
Listings Delisted		3				
3	Morro Bay siltation	3	5/02	9/03	1/04	
3	San Lorenzo River nitrate	4	9/02	11/01	8/03	Adopted by RB Resolution/Order
3	Las Tablas Creek - Nacimiento Reservoir mercury	2	11/02			Revisions to implementation plan needed. No responsible party due to history of recalcitrant discharger.
3	Morro Bay pathogens	10	5/03	9/03	1/04	
3	Morro Bay, Chorro & Los Osos Creeks sediment	3	5/03	9/03	1/04	
3	San Lorenzo River sediment	4	5/03	9/03	1/04	
3	Clear Creek-Hernandez Reservoir mercury	2	3/04	--	6/04	Technical TMDL Adopted by RB Resolution submitted to EPA
3	Dairy Creek dissolved oxygen	1	12/04	--		Technical TMDL Adopted by RB Resolution submitted to EPA, awaiting EPA approval.
3	Los Osos Creek nutrients	1	12/04	--	3/05	Technical TMDL Adopted by RB Resolution submitted to EPA
3	San Luis Obispo Creek pathogen	1	12/04	5/05	9/05	
3	San Luis Obispo Creek nutrients	1	9/05	6/06	1/07	
3	Pajaro River siltation/sedimentation	4	12/05	9/06	5/07	
3	Pajaro River nutrients	2	12/05	--	10/07	Technical TMDL Adopted by RB Resolution/Order.
3	Watsonville Slough pathogens	1	3/06	9/06	3/07	Adopted by RB Order and UAA
3	Chorro Creek nutrients and dissolved oxygen	1	7/06	--	7/07	Technical TMDL Adopted by RB Resolution/Order.
3	Aptos and Valencia Creeks pathogens	2	3/08, 5/09	8/10	1/11	Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	San Lorenzo River watershed pathogen	4	3/08, 5/09	3/11	7/11	Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	Soquel Lagoon pathogens	1	3/08, 5/09	7/10	11/10	Withdrawn from approval process; RB adopt revised TMDL 6/09.
3	Corralitos Creek pathogens	4	3/09	4/11		Also addresses 3 2010 listings
3	Pajaro River fecal coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	12	3/09	4/10	8/10	Technical TMDL Adopted by RB Resolution/Order.
3	Salinas River fecal coliform	18	9/10	9/11	1/12	Technical TMDL Adopted by RB Resolution/Order.
3	Lower Salinas River chlorpyrifos and diazinon	35	5/11	--	10/11	Technical TMDL Adopted by RB Resolution/Order.
3	Arroyo de la Cruz bacteria	1	5/11	--	11/11	Technical TMDL Adopted by RB Resolution/Order.
3	Cholame Creek Bacteria	2	5/11	--	11/11	Technical TMDL Adopted by RB Resolution/Order.
3	San Antonio River Bacteria	2	5/11	--	11/11	Technical TMDL Adopted by RB Resolution/Order.
3	San Lorenzo Creek Bacteria	2	5/11	--	11/11	Technical TMDL Adopted by RB Resolution/Order.
3	Tularcitos Creek Bacteria	1	5/11	--	11/11	Technical TMDL Adopted by RB Resolution/Order.
3	Santa Maria River Watershed fecal coliform	21	3/12	10/12	4/13	
3	San Antonio Creek chlorpyrifos	1	5/12	6/12	4/13	
3	Los Berros Creek nitrate	1	5/12	6/12	6/12	
3	Salinas River Nutrients	45	3/13	5/14		
3	Arroyo Paredon Diazinon	2	3/13	--	6/13	Adopted by RB Resolution/Order
3	Santa Maria River Watershed nutrients	36	5/13	6/14		
3	Bell Creek Nitrate	1	5/13	--	8/13	Adopted by RB Resolution/Order
3	Jalama Creek Sodium and Chloride	2	5/13	--	9/13	Adopted by RB Resolution/Order
3	Pajaro River watershed chlorpyrifos and diazinon	5	7/13	--		Adopted by RB Resolution/Order; submitted to EPA for approval

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
3	Arroyo Paredon nitrate	1	12/13			
3	Estrella River Basin boron	1	12/13			
3	Santa Maria River Watershed toxicity and pesticides	45	1/14			
3	Glen Annie/Los Carneros Creek nitrates	2	3/14			
3	San Lorenzo/Zayante chlorpyrifos	4	5/14			
Listings Addressed		291				
4	East Fork San Gabriel River Trash	1	10/99	6/00	12/00	
4	Ballona Creek Trash	1	9/01, 3/04	2/02, 9/04	8/02	
4	Los Angeles River Trash	7	9/01	2/02	8/02	
4	Los Angeles River Watershed Lakes Trash	3	9/01			
4	Santa Monica Bay Beaches Coliform dry weather	51	1/02	9/02	6/03	Dry-Weather and Wet-Weather may be considered one TMDL. Listing did not differentiate between seasons. Only counted once in
4	Calleguas Creek Chloride	6	--	--	3/02	Technical TMDL drafted by RB, established by EPA
4	Santa Monica Bay Beaches Wet Weather Bacteria	51	12/02	3/03	6/03	see note above
4	Calleguas Creek Nitrogen	30	10/02	3/03	6/03	
4	Santa Clara River Chloride Reach 3	1	10/02	--	6/03	Remanded by SB, Objective change BPA 11/03; EPA established with Reg. Bd. Assistance
4	Malibu Creek nutrients	28	--	--	3/03	EPA established with RB technical assistance
4	Santa Clara River Chloride Reach 7 & 8	2	10/03, 5/04, 8/06	7/04, 5/07	4/05,	Remanded by SB, Revised approved by SB 7/04; 8/06 revised implementation plan only. EPA approval not needed.
4	Los Angeles River Nitrogen	33	7/03, 12/03	11/03, 3/04	3/04	
4	Santa Clara River Nitrogen	6	7/03	11/03	3/04	
4	Marina del Rey Pathogens	3	8/03	11/03	3/04	
4	McGrath Beach Coliform	1	8/03	--	--	CAO
4	Los Angeles Harbor Beach Closures	2	7/04	10/04	3/05	
4	Malibu Creek Pathogens	12	12/04	9/05	1/06	
4	Los Angeles River Metals/Toxics	18	6/05	10/05	12/05	
4	Ballona Creek Metals	9	7/05	10/05	12/05	
4	Ballona Creek Toxics	11	7/05	10/05	12/05	
4	Calleguas Creek Historic pesticides	62	7/05	9/05	3/06	
4	Calleguas Creek Toxicity	10	7/05	9/05	3/06	
4	Calleguas Creek PCBs	5	7/05	9/05	3/06	
4	Marina del Rey Toxics	9	10/05	1/06	3/06	
4	Marina del Rey Harbor-Back Basin Metals (AU #56)	3	10/05	1/06	3/06	
4	Ballona Creek Coliform	4	6/06	11/06	3/07	
4	Calleguas Creek metals	6	6/06	10/06	3/07	
4	San Gabriel River metals	7	7/06	--	3/07	Withdrawn by Region; EPA established with Reg. Bd. assistance
4	Calleguas Creek trash	2	6/07	12/07	2/08	
4	Legg Lake trash	1	6/07	12/07	2/08	
4	Machado Lake trash	1	6/07	12/07	2/08	
4	Santa Clara River trash	3	6/07	12/07	2/08	
4	Ventura River Estuary trash	1	6/07	12/07	2/08	
4	Los Angeles River trash (listings added)	7	8/07	4/08	7/08	Re-adoption in compliance with Court decision; original TMDL addressed 7 listings, re-adoption addresses 14 listings total (same situation as Marina del Rev.)
4	Calleguas Creek boron/sulfate/TDS	31	10/07	5/08	12/08	
4	Harbor Beaches of Ventura County	2	10/07	10/08	12/08	
4	Malibu Creek Watershed trash	7	5/08	3/09	6/09	
4	Machado Lake nitrogen	4	5/08	12/08	3/09	
4	Calleguas Creek Nitrogen Compounds and Related Effects	27	9/08	6/09	10/09	
4	Colorado Lagoon pesticides, PAH's, PCB's, metals, etc.	8	10/09	11/10	6/11	(zinc, lead)

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
4	McGrath Lake Pesticides	5	10/09	12/10	6/11	
4	Los Cerritos Metals	3	--	--	3/10	EPA established with RB technical assistance
4	Santa Clara River Coliform (23b & 34)	5	7/10	10/11	1/12	Reach 3 is not on the 303(d) list, but is impaired per RB Res.
4	Los Angeles River Pathogens (15)	17	7/10	11/11	3/12	
4	Machado Lake toxics (73b)	5	9/10	12/11	3/12	
4	Santa Monica Bay offshore/nearshore debris (66)	1	11/10	12/11	3/12	
4	Santa Clara River Estuary (33) Toxaphene	1	11/10	n/a	n/a	Adopted by the Reg. Bd as a single regulatory action
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics (73a) and PAHs (74)	74	5/11	2/12	3/12	
4	Oxnard Drain No. 3 (8)	6	--	--	10/11	EPA established with RB technical assistance
4	El Dorado Lakes, Puddingstone Reservoir and Santa Fe Dam Park Lake copper (42)	6	1/12	--	3/12	TMDL adopted as an enforcement order.
4	Avalon Beach Bacteria Indicators (non-CD)	1	4/12	--	6/14	TMDL adopted as an enforcement order first (CDO)
4	Ballona Creek wetlands sediment and exotics (65)	4	--	--	3/12	EPA established with RB technical assistance
4	Long Beach Beaches bacteria	1	--	--	3/12	EPA established with RB technical assistance
4	Los Angeles Area Lakes Nutrients, Hg, Trash, Organochlorine pesticides, PCBs (58)	33	--	--	3/12	EPA established with RB technical assistance
4	Santa Monica Bay DDT, PCBs	60	--	--	3/12	EPA established with RB technical assistance
4	Ventura River algae/nutrients (88)	6	12/12	2/13	6/13	
4	Ventura River Reaches 3 and 4 Pumping and Water Diversion	4	--	--	6/13	EPA finding that State TMDL for nutrients
4	Malibu Creek and Lagoon Benthic Community Impairments	3	--	--	7/13	EPA established with RB technical assistance
4	Marina del Rey toxics (54) (listings added)	10	2/14			
Listings Addressed		670				
Reconsidered/Reopened						
4	Los Angeles River trash (re-consideration)	7	8/07	4/08	7/08	Re-adoption in compliance with Court decision; original TMDL addressed 7 listings, re-adoption addresses 14 listings total (same situation as Marina del Rey.)
4	Los Angeles River metals (re-consideration)	18	9/07	6/08	10/08	Re-adoption in compliance with Court decision
4	Ballona Creek metals (re-consideration)	11	9/07	6/08	10/08	Re-adoption in compliance with Court decision
4	Santa Clara River chloride (re-consideration)	2	12/08	10/09	4/10	
4	Los Angeles River metals (re-consideration)	5	5/10	4/11	11/11	Modified to incorporate discharger generated WER
4	Los Angeles Harbor Beaches - Beach Closures (72) (re-consideration)	2	6/12	3/13		
4	Malibu Pathogens (47 in part) (re-consideration)	12	6/12	3/13		
4	Marina del Rey Pathogens (46) (re-consideration)	3	6/12	3/13		
4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48) (re-consideration)	51	6/12	3/13		
4	Ballona Creek Coliform (49) (re-consideration)	4	6/12	3/13		
4	Los Angeles River nitrogen (11) (re-consideration)	4	12/12	6/13		
4	Los Cerritos Channel metals (84) (re-consideration)	3	6/13	3/14		Implementation plan added to EPA established TMDL
4	San Gabriel River metals (39) (re-consideration)	9	6/13	3/14		Implementation plan added to EPA established TMDL
4	Ballona Creek metals (57) (re-consideration)	9	2/14	6/14		
4	Ballona Creek toxics (55) (re-consideration)	11	2/14	6/14		
4	Marina del Rey toxics (54) (re-consideration)	9	2/14			
Listings Reconsidered		160				
5	Grasslands Marsh Selenium	1	96	1996	5/00	
5	Salt Slough Selenium	1	96	1996	1999	
5	San Joaquin River Selenium	1	96	1996	3/02	

Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
5	Sacramento River Cadmium, Copper & Zinc	3	5/02	--	6/02	Submitted as a technical TMDL report
5	Clear Lake Mercury	1	12/02	5/03	9/03, 10/03	
5	Sacramento and Feather River Diazinon	2	10/03	4/04	8/04	
5	Sacramento Area Urban Creeks diazinon	10	9/04	--	11/04	Adopted by Resolution. Implemented via MS4 permit
5	San Joaquin River Salt and Boron	2	9/04	11/05	2/07	TMDL is complete for the Stanislaus to Vernalis reach only.
5	San Joaquin River Dissolved Oxygen	1	1/05	11/05	2/07	
5	San Joaquin River Diazinon and Chlorpyrifos	8	10/05	5/06	12/06	
5	Cache, Bear and Sulphur Creeks Mercury	4	10/05	7/06	2/07	
5	Clear Lake nutrient	1	6/06	4/07	9/07	
5	Delta Diazinon and Chlorpyrifos	24	6/06	5/07	10/07	Marsh Creek and Old River added per the 2010 Integrated Report
5	Sacramento/Feather diazinon & chlorpyrifos	2	5/07	2/08	8/08	
5	Stockton Area Sloughs and Rivers pathogens	8	3/08	--	5/08	TMDL adopted as a MS4 permit
5	Sacramento-San Joaquin Delta methylmercury	8	4/10	6/11	10/11	
5	Sacramento and San Joaquin Pesticides (Phase 1 - Diazinon and Chlorpyrifos)	47	3/14			
Listings Addressed		124				
6	Heavenly Valley sediment	1	1/01	9/01	9/02	
6	Indian Creek Reservoir phosphorus	1	7/02	1/03	7/03	
6	Squaw Creek sediment	1	4/06	2/07	7/07	
6	West Fork Carson River sodium objectives	2	12/06	9/07	9/08	Site-specific objective for two segments of the West Fork.
6	Cold Creek nitrogen	1	7/09	8/10	11/10	4b being addressed by USFS restoration
6	Blackwood Creek sediment	1	10/07	--	7/08	Adopted by RB Resolution/Order submitted directly to EPA
6	Truckee River, and Bronco and Gray Creeks Sediment	3	5/08	3/09	9/09	
6	Lake Tahoe nutrients/sediment	3	11/10	4/11	8/11	
Listings Addressed		13				
Delisted						
6	Clearwater Creek sedimentation/siltation	1	6/14			Delisted in Regional Board adopted Integrated Rejport
6	Amargosa River (Willow Crk confluence to Badwater) Arsenic	1	6/14			Delisted in Regional Board adopted Integrated Rejport
Delistings		2				
7	Alamo River Sediment	1	6/01	2/02	6/02	
7	New River Pathogen	1	10/01	3/02	8/02	
7	New River Sediment	1	6/02	11/02	3/03	
7	Imperial Valley Drains (Niland 2, P, Pumice) Sediment	1	1/05	7/05	9/05	
7	New River trash	1	6/06	4/07	9/07	
7	Coachella Valley Storm Channel pathogen TMDL	1	5/07, 6/10	6/11	4/12	Withdrawn by Region, and subsequently re-adopted
7	New River dissolved oxygen	1	5/10	12/11	11/12	
7	Alamo River & New River Chlorpyrifos & Diazinon	4	9/13	--		Regional Board adopted as 4b
Listings Addressed		11				
Delisted						
7	Alamo River endosulfan and mercury	2	3/14			Delisted in Regional Board adopted Integrated Rejport
7	Colorado River selenium	1	3/14			Delisted in Regional Board adopted Integrated Rejport
7	Imperial Valley drains endosulfan	1	3/14			Delisted in Regional Board adopted Integrated Rejport
7	New River copper and zinc	2	3/14			Delisted in Regional Board adopted Integrated Rejport
7	Salton Sea selenium	1	3/14			Delisted in Regional Board adopted Integrated Rejport
Listings Delisted		7				

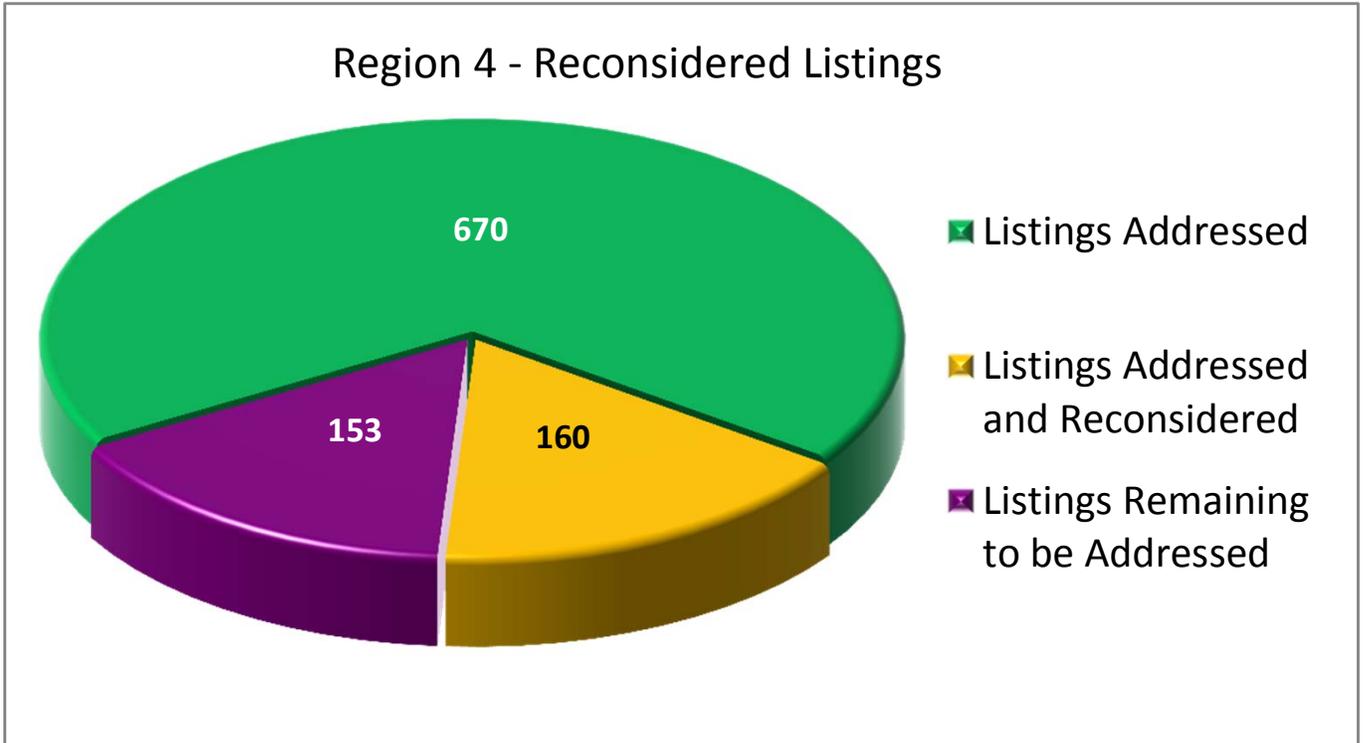
Adopted TMDLs

Region	TMDL Project	Listings	RB Adopted	SB Approved	EPA Approved	
8	Santa Ana River Reach 3 total inorganic nitrogen	1	11/91	2/92	12/94	
8	Newport Bay & San Diego Creek Nitrogen, phosphorus	8	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Sediment	3	10/98	11/98	4/99	
8	Newport Bay & San Diego Creek Fecal Coliform	2	4/99	7/99	2/00	
8	Newport Bay Watershed Chlorpyrifos	4	4/03	10/03	2/04	
8	Newport Bay Watershed Diazinon	4	4/03	10/03	2/04	
8	Lake Elsinore Watershed Nutrient TMDL	3	12/04	5/05	9/05	
8	Middle Santa Ana R. (Prado area streams) pathogen	6	8/05	5/06	5/07	
8	Big Bear watershed nutrient	2	4/06	4/07	9/07	
8	Newport Bay Watershed Organochlorine Compounds	12	9/07, 7/11	10/12	11/13	Withdrawn from SB consideration, re-adopted 7/15/11
Listings Addressed		45				
9	Chollas Creek Diazinon	1	6/02	7/03	11/03	
9	Rainbow Creek nutrient	2	12/04	11/05	3/06	
9	Shelter Island Yacht Basin Dissolved Copper	1	2/05	11/05	2/06	
9	Chollas Creek Metals	3	6/05, 6/07	7/08	12/08	
9	Bacteria impaired waters I (creeks and beach shorelines)	50	12/07, 2/10	12/10	6/11	
9	San Diego Bay & Dana Point Harbor shorelines bacteria	2	6/08	6/09	10/09	
9	Tecolote Creek bacteria	1	2/10	12/10	6/11	
9	NASSCO and BAE (aka Southwest Marine)	5	3/12	--	--	TMDL adopted as a Cleanup and Abatement Order
9	Los Penasquitos Lagoon Sedimentation	1	6/12	1/14		
9	Loma Alta Slough Eutrophication	1	6/14	--	--	Resolution confirming new MS4 Permit requires implementation that will restore the water body by 2023.
Listings Addressed		67				
Total Number of Listings Addressed Statewide		1379				

Number of 303(d) listings (2010) = 3,489
 Listings Address by TMDL Adoption = 1,379
 Listings Re-considered During TMDL Re-consideration = 160
 TMDL Project Adoptions = 193
 TMDL Project Re-considerations = 16
 Total Number of TMDL Adoptions and Re-considerations = 209
 Percentage of 2010 Listings Addressed = 40%
 Delisted = 12
 Delisted in previous 303(d) Integrated Reports = 516
 Total Number of All Delistings = 528

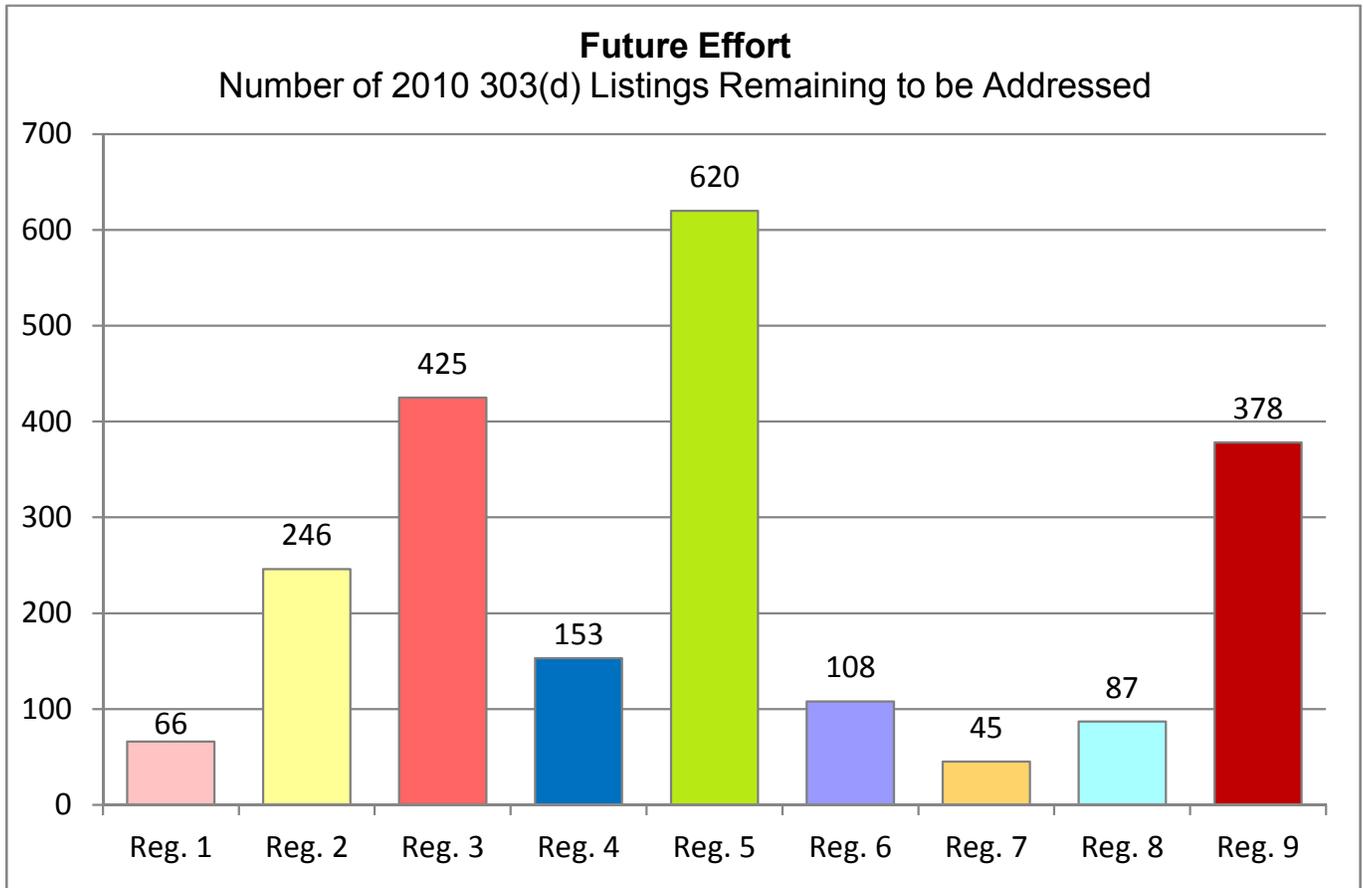
 Total of All Listings Addressed = 1,907
 2010 listing remaining to be addressed = 2,110

Region 4 - Listings Addressed and Reconsidered



2010 303(d) Listings Remaining to be Addressed

Listings Remaining to be Addressed



TMDL Accomplishments and Challenges Not Elsewhere Reported

North Coast Impaired Waters & TMDL Program Fiscal Year 2013 - 2014 Accomplishments

This summary highlights the accomplishments of the North Coast Region's TMDL program from July 2013 through June 2014. Program priorities focused on assessing surface waters, addressing impaired waters by developing and implementing TMDLs, and developing and implementing permits and policies that will improve water quality without the need for TMDLs.

The development of TMDLs is necessary when pollutant impacts, sources, and solutions to impairments require investigation and research. This is the case for impairments to the Laguna de Santa Rosa, Russian River, and Elk River, which were the focus of 3.8 positions in FY 13-14. With over half of the region's impaired waters addressed by completed TMDLs (per the 2010 List), 4.4 positions implemented TMDLs to achieve tangible water quality results. The North Coast Region continued to address impaired waters through regulatory implementation mechanisms when sources and solutions are well understood. Once these programs are in place they should provide reasonable assurance that standards will be achieved, thereby allowing 4b categorization on the 303(d) List, which will negate the need to develop TMDLs for several impaired waterbodies.

<u>Permits, Programs & Policies that Address Impaired Waters</u>	
County Roads Waiver	Adopted May 2013
Diary Permit Program	Adopted January 2012
Grazing Regulatory Action Plan	Under Development
Lily Bulb Ag. Discharge Permit*	Under Development
Mendocino Co. Permit Coordination Program*	Adopted Nov. 2013
Scott River TMDL Waiver*	Renewed October 2012
Shasta River TMDL Waiver*	Renewed October 2012
Temperature Policy*	Adopted March 2014
Timber Harvest Permit Program	Renewed May 2014
Tule Lake Ag. Discharge Permit*	Under Development
U.S. Forest Service Waiver	Adopted June 2010
Vineyard & Orchard Discharge Permit*	Under Development

*Funded by the TMDL Program

2012 Integrated 303(d) & 305(b) Assessment Report: Staff completed over 4,700 lines of evidence comparing data to water quality standards and developed 991 decisions to list or not list surface waters as impaired. The public review draft was released in March 2014 and staff hosted two public workshops in April. Staff responded in writing to over 130 comment letters and presented a summary of public comments to the Regional Water Board in May. The adoption hearing is scheduled for August 14, 2014. With the 2012 update to the List of Impaired Waters, staff proposes 33 new listings, 1 increase in geographic scope, 11 delistings, and 21 reductions in geographic scope of existing listings.

Russian River Pathogen Indicator Bacteria TMDL: Staff completed the last sampling efforts in July 2013, which allowed staff to move into the data assessment phase this fiscal year. Staff completed internal drafts of the technical TMDL, including the evidence of impairment, targets, source analysis, linkage, loading capacity, and allocations chapters. In spring 2014, staff began developing the TMDL implementation actions. Staff initiated stakeholder outreach efforts by hosting informal meetings to scope and discuss potential actions.

Laguna de Santa Rosa TMDLs: Staff continued to develop the phosphorus, nitrogen, dissolved oxygen, temperature, and sediment TMDLs. In FY 13-14, the draft sediment source analysis was completed. TMDL staff assisted with the renewal of NPDES permits for two wastewater treatment facilities, with permit adoption in November 2013. Staff updated the stakeholder outreach plan in the spring. Throughout the year, staff participated in early implementation efforts including the assessment of municipal stormwater monitoring requirements, development of a nutrient credit trading market, assessment of wetland resources, historical ecology studies, nutrient management planning for non-dairy livestock, and stream maintenance and restoration work.

Upper Elk River Sediment TMDL: Staff released the peer review draft of the TMDL and staff responses to peer reviewer comments to the public in July 2013. This generated extensive comments and staff are making revisions in response to stakeholder and board member input. Staff held a Regional Water Board workshop in May 2014 to solicit input on a single action approval process and the TMDL implementation strategy. Additionally, staff initiated the Elk River Recovery Assessment and Sediment Remediation Pilot Project using funding from the Cleanup and Abatement Account.

Eel, Mattole, and Navarro River Temperature Action Plans: In March 2014, the Regional Water Board adopted Action Plans to address eight temperature impairments in three major watersheds. The action plans are amendments to the Basin Plan and implement EPA-established TMDLs.

Temperature Policy: Also in March 2014, the Board adopted the Policy for the Implementation of Water Quality Objectives for Temperature as an amendment to the Basin Plan. The policy describes the significance of stream shade, sediment, and flow as factors affecting water temperatures and directs staff to address temperature impacts through existing regulatory authorities and processes.

Garcia River Sediment TMDL: Implementation actions continued in high gear in FY 13-14. Erosion control plans were developed for three large properties, which address 55 miles of roads. In May 2014, a free public workshop funded by a 319(h) grant exhibited effective erosion and sediment control work. The grant also helped fund an update to the useful *Handbook for Forest, Ranch, and Rural Roads*. Also in FY 13-14, a large wood recruitment project was installed along 1.5 miles of the South Fork, providing critical habitat for threatened and endangered salmonids. Wood recruitment has now been implemented across more than ten miles of the river's coho salmon core recovery areas.

Klamath River Basin TMDLs: Staff continue to make progress implementing several TMDLs in the Klamath River Basin, which includes the Upper Klamath Basin, Lost River, Shasta River, Scott River, Salmon River, and Trinity River. Staff played a lead role in coordinating control efforts throughout the basin to address temperature, nutrient, dissolved oxygen, microcystin, pH, and sediment impairments. Staff coordinated or participated in the Klamath Basin Monitoring Program, development of stewardship reports for the Shasta River Watershed, the Klamath Hydroelectric Settlement Agreement Interim Measure Committee, water quality improvement pilot projects, fish health tracking and response actions, and the implementation of the Klamath Tracking and Accounting Program. Additionally, staff continued to actively implement TMDL Action Plans and the Shasta and Scott River TMDL Waivers of Waste Discharge Requirements.

Agricultural Lands Discharge Permit Program: Staff began the fiscal year by rescoping the permit effort from one, region-wide permit to several separate permits specific to a particular commodity or area. Staff hosted an Advisory Group meeting in September 2013 and brought the rescoping proposal to the Regional Water Board in October. Staff then focused efforts on writing permits for agricultural discharges in the Tule Lake Watershed, from lily bulb cultivation, and from vineyards and orchards. Other TMDL staff focused on implementing existing permits in the Scott and Shasta River watersheds while non-TMDL program staff focused on discharges from marijuana cultivation and grazing impacts. Staff met with stakeholders on the Tule Lake, lily bulb, and vineyard and orchard permits throughout 2014, and continued to refine third-party concepts for the permits. Additionally, staff initiated a sampling effort near lily bulb farms in FY 13-14.

Mendocino County Permit Coordination Program: In November 2013, the Regional Water Board adopted the Waiver of Waste Discharge Requirements and General Water Quality Certification for the Mendocino County Permit Coordination Program. The program provides a one-stop-shop for landowners to obtain permits for restoration and sediment control work, saving time and money.

SAN FRANCISCO BAY REGIONAL WATER QUALITY CONTROL BOARD TMDL PROGRAM

Fiscal Year 2013 – 2014

Accomplishments, Challenges, and Initiatives

This summary identifies accomplishments, challenges, and initiatives for the San Francisco Bay) Regional Water Quality Control Board (Region 2 Water Board) TMDL Program for fiscal year 2013 – 2014 that are not reflected in the End of Year Report generated by the Planner Tracker database.

In 2013-14, the Region 2 Water Board's TMDL program maintained a balanced approach towards TMDL development and implementation. The Lagunitas Creek sediment TMDL was adopted and the Board favorably resolved legal action on the Napa River sediment TMDL, allowing the TMDL to move forward.

At the programmatic level, the Region 2 Water Board continued to participate in several team-based TMDL development and implementation initiatives aimed at addressing listed waters more efficiently through the sharing of our collective technical expertise and experience. These included our active participation in several, ongoing Statewide projects including the reservoir mercury TMDL project, grazing regulatory strategy work group, and a pesticide project that will provide recommendations for addressing pesticide-related water quality impairments in California's urban streams.

Accomplishments

- **Lagunitas Creek Sediment TMDL adopted by Regional Water Board.** The Lagunitas Creek Sediment TMDL was adopted on June 11, 2014. Lagunitas Creek provides essential habitat for coho salmon, steelhead trout, and California freshwater shrimp and as such, is a Regional Board priority. The TMDL requires targeted actions to control fine sediment, enhance channel habitat, and restore floodplains to establish properly functioning channel conditions.
- **Proposed delisting of the Napa River and Sonoma Creek for nutrient impairment.** At its February 12, 2014, meeting, the Region 2 Water Board approved removing the Napa River and Sonoma Creek from the federal 303(d) list of waters impaired by nutrients. The Board's decision now goes to the State Water Board for review. Using available data, including significant monitoring of the river and creek by the Boards' Surface Water Ambient Monitoring Program (SWAMP), the Board determined that nutrient levels—and levels of nutrient-associated parameters, like dissolved oxygen levels, percent cover of bottom-growing algae, and chlorophyll a concentrations, were below levels of concern. This was found to be a result of watershed improvements, beginning in the late 1970s, including improvements to wastewater treatment plant operations and changes in land use adjacent to the river and creek (e.g., a reduction in dairies discharging to Sonoma Creek, improvements in grazing practices, and reductions in grazing, replaced by vineyards).
- **Proposed delisting of Muir Beach for fecal indicator bacteria.** At its May 14, 2014, meeting, the Region 2 Water Board approved removing Muir Beach from the federal 303(d) list of waters impaired by fecal indicator bacteria. This decision now goes to the State Water Board for review. A review of the most recent 9 years of available data showed that the Beach meets water quality objectives for contact recreational use. This water quality success story can in part be attributed to a National Park Service restoration project near the beach, which limited human

and animal access to the main tributary creek, created natural vegetated buffers along the creek, and relocated the creek channel further away from septic systems.

- **Priority Watershed TMDL Implementation.** Region 2 Water Board TMDL, Non-Point Source, and SWAMP program staff coordinated and supported TMDL implementation via stakeholder outreach, grant funding, inspections, and complaint follow-ups. The outreach maximized stakeholders' ability to obtain grants for implementation of projects to control discharges (e.g., sediment, pathogens, nutrients, and mercury) in response to permit requirements and anticipated regulations. Examples of our coordinated program efforts include the December 11, 2013 Regional Water Board's renewal of the Tomales Bay grazing waiver of WDRs (which implements the Tomales Bay Pathogens TMDL and the Walker Creek and Tomales Bay Mercury TMDLs), and restart of our vineyard discharge program (which implements the Napa River and Sonoma Creek sediment TMDLs).

Challenges and Response to Challenges

GIS support, both in light of our expanding agricultural regulatory program and emphasis on sediment TMDLs (Walker, Butano/Pescadero, Lagunitas creeks), remains a critical need. Responding to this challenge, Region 2 Water Board staff worked with other regions and State Water Board staff to allocate contract resources for GIS products.

North San Francisco Bay Selenium TMDL. Region 2 Water Board staff continues to make progress on the development of this TMDL, which has challenges due to its high level of complexity, interested stakeholder community that includes petroleum refineries and wastewater dischargers, and coordination with U.S. EPA staff on EPA's planned issuance of site-specific selenium water quality objectives for San Francisco Bay.

Napa River Sediment TMDL. In May 2014, litigation challenging the Region 2 Water Board's CEQA analysis was resolved favorably, allowing the TMDL to move forward, and freeing staff time to focus on implementation.

TMDL Implementation

San Francisco Bay PCB and Mercury TMDLs. Staff began work with U.S. EPA and other agency staff on an initiative to reduce PCB loading into San Leandro Bay from the adjacent catchment—an area of historically heavy “old industrial” use known to be a high source of PCB loadings. This includes investigation of existing case files, coordination with other entities, such as BART, and private landowners, on-site sampling and visual monitoring, and cleanup oversight to ensure PCBs are appropriately addressed. Additionally, staff continued to work with municipal stormwater dischargers to implement existing NPDES MS4 permit conditions, and to develop permit conditions for the MS4 permit's expected reissuance in FY 2014-15.

Walker Creek Mercury TMDL. Region 2 Water Board staff continues to make progress on implementation, with notable investigative planning work this year by the Marin Municipal Water District (MMWD) on its Soulajule Reservoir. Additionally, MMWD installed a Howell-Bunger valve to oxygenate the reservoir's outflow. Perhaps coincidentally, the same week the valve began operation, MMWD reported counting 137 juvenile coho salmon in Walker Creek, to which the reservoir is tributary—the first time they had been observed since 2008.

Napa River and Sonoma Creek Sediment TMDLs.

On the grazing front, Region 2 Water Board staff is working closely with local groups to provide technical assistance for ranch planning and water quality protection. Further, clean water planning via the Fish Friendly Farming program has been completed for more than 30% of existing vineyard acreage in the catchment—about 30,000 acres, and staff is working with the Napa RCD to develop an additional third-party program.

To provide additional opportunities to involve stakeholders in efforts to develop a vineyard regulatory program, the Region 2 Water Board publically noticed a Board member field tour of vineyard operations on January 29, 2014. The vineyard tour was purely for educational purposes and focused on vineyard management practices that reduce erosion.

CENTRAL COAST REGIONAL WATER QUALITY CONTROL BOARD

Fiscal Year 2013-2014

Accomplishments and Challenges

This summary identifies the accomplishments and challenges of the TMDL Program in the Central Coast Region for fiscal year 2013-2014.

ACCOMPLISHMENTS

TMDL Approvals

We obtained regional board approval for six TMDLs in fiscal year 2013-2014; we committed to five approvals in our TMDL work plan.

The TMDLs approved in fiscal year 2013-2014 were:

1. Arroyo Paredon Nitrate TMDL
2. Estrella River Basin Boron TMDL (not planned)
3. Glen Annie/Los Carneros Cr Nitrate TMDL (not planned)
4. Pajaro River OP Pesticides TMDL
5. San Lorenzo/Zayante Creek Clorpyrifos TMDL
6. Santa Maria River Watershed Toxicity and Pesticides TMDL

We committed to obtaining approval for the Pajaro River Watershed Nutrient TMDL. However, the complexity, volume, and detail of public comments warranted rescheduling this adoption until fiscal year 2014-2015. To account for this loss of one approval, we worked hard to expedite TMDL development and approval for the Estrella River Basin Boron and Glen Annie/Los Carneros Cr Nitrate TMDLs, both of which were approved; hence the 6/5 approval rate.

We submitted two TMDLs in fiscal year 2013-2014 to the State Water Board for consideration, both of which were approved. The TMDLs were:

1. Salinas River nutrients
2. Santa Mari watershed nutrients

Streamlining TMDL Development and Approval

The impaired waters list in the Central Coast region exceeds 700 pollutant-waterbody combinations. This large list is in part a result of robust monitoring programs driving the 303(d) listings. The number of listings warrants continued development of streamlined approaches to TMDL development and approval; some streamlined approaches to TMDL development address water quality problems that are not as serious as others. Additionally, we continue to prioritize impairments with serious water quality problems, often requiring more time to develop TMDLs, and include these in our work plan. Therefore, our work plan includes projects that we believe will have a short turn-around time to develop and approve, as well as projects that address very serious water quality issues that will take longer to develop and approve a TMDL.

CHALLENGES

Difficulty of Resolving Impairment

We have received a significant number of detailed comments from implementing parties on our proposed TMDLs. Staff must work with the stakeholders and respond to comments to develop meaningful, approvable solutions. The solutions are sometimes unpalatable to some implementing parties, thereby slowing TMDL development and approval. As the TMDL program moves forward addressing problems that are difficult to resolve, such as urban pesticides and nutrient loading impacting aquatic life, the development and approval of TMDLs may slow for a period of time. Our strategy is to develop the best solutions (TMDLs) possible now, then use these as models to build from so we can apply to other projects. We've found that this approach ultimately results in an accelerated rate of TMDL development and approval over time, and we will continue this strategy.

Increasing Demand for Implementation

We continue to increase the number of adopted TMDLs and corresponding required implementation efforts. We rely on our regulatory programs to implement TMDLs. The regulatory programs have an increasing work load. Logically, there will be a critical point at which there will not be enough staff resources in regulatory programs to address the work load. To address this imminent critical point, we are developing potential strategies to regulate an increasing number of dischargers with a steady number of staff.

TMDL Report Cards of TMDL Progress

We have developed many TMDLs where progress is defined on a watershed or subwatershed scale. For example, bacteria or nutrient concentration targets at subwatershed or watershed monitoring locations are historically used as measures of progress toward achieving TMDLs. However, subwatershed and watershed resolution analysis is often not sensitive enough to show the progress that we know is being made. For example, implementation of management practices at a ranch site could significantly reduce loading to tributary waters, but concentration data at a watershed scale may not show a positive trend. Therefore, we are moving toward measuring progress on a localized scale, such as individual ranches. Many of our impairments are driven by non-point sources, to which there are thousands of individual contributors. Developing meaningful individual monitoring requirements and establishing a means of reporting and tracking site information will be a challenge, but necessary to demonstrate progress.

LOS ANGELES REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2013-2014

Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Los Angeles Water Board's TMDL Program for fiscal year 2013-2014 that are not reflected in the End of Year Report generated by Planner Tracker.

Accomplishments

This fiscal year the Los Angeles Water Board adopted three TMDLs: the Ballona Creek Estuary Toxic Pollutants TMDL, the Ballona Creek Metals TMDL, and the Marina del Rey Toxic Pollutants TMDL. These TMDL adoptions were revisions to previously adopted TMDLs based on new information and scientific studies. US EPA also promulgated the Malibu Creek and Lagoon Benthic Community TMDL in July 2013 after significant assistance from Los Angeles Water Board staff.

In addition to adopting TMDLs, the Los Angeles Water Board focused on implementing the 50 existing TMDLs in the Region. One aspect of implementation is the collection and analysis of data to develop implementation plans for US EPA-established TMDLs. For example, staff compiled and assessed considerable amounts of nutrient and algae data in the Malibu Creek watershed. The Los Angeles Water Board had intended to develop a revised Malibu Creek Nutrient TMDL this fiscal year, but based on the results of data collection and analysis, and participation in the development of the US EPA-established Malibu Creek and Lagoon Benthic Community TMDL, the Los Angeles Water Board has revised its approach and intends to develop an implementation plan for the existing US EPA-established TMDLs in Fiscal Year 2014-15.

Another part of implementation is ensuring that TMDLs are incorporated into permits. In order to accomplish this goal, Los Angeles Water Board TMDL staff devoted significant resources to the inclusion of TMDLs in the Long Beach MS4 permit, which was adopted in February 2014. Adoption of the Long Beach MS4 permit is critical for the successful implementation of the 10 TMDLs that affect the City of Long Beach. The Los Angeles Water Board TMDL staff also worked with State Water Board staff to develop permit requirements for the implementation of TMDLs in the Statewide Caltrans MS4 permit and the Statewide Phase II MS4 permit, which are both impacted by almost all TMDLs in the Los Angeles Region. Finally, this fiscal year, Los Angeles Water Board TMDL staff helped to prepare guidance documents and conduct workshops to educate permittees regarding implementation of the TMDL-related permit requirements of the Los Angeles County MS4 permit.

This was the third year that Los Angeles Water Board staff instead of State Board staff prepared documents and presented TMDLs to the State Board. Los Angeles Water Board staff brought the Ballona Creek Estuary Toxic Pollutants TMDL, the Ballona Creek Metals TMDL, and the implementation plans for the Los Cerritos Channel and San Gabriel River Metals TMDLs through the State Board approval process.

Challenges and Responses to Challenges

While the economy is recovering, over the last fiscal year, the Los Angeles Water Board was still compelled to work creatively with stakeholders to establish implementation plans and flexible schedules in order to attain broad stakeholder support and Los Angeles Water Board approval of TMDLs. This took additional time and effort, but has resulted in general support for the recently adopted TMDLs.

In revising the Marina del Rey Toxics TMDL, the Los Angeles Water Board regulated a new source of pollution, namely copper-based hull paint. TMDL staff spent considerable time and effort providing outreach and education to this newly regulated community of boat owners and marinas.

Initiatives in TMDL Implementation

Los Angeles Water Board staff intends to develop an implementation plan for the Malibu Creek Nutrient TMDL and the Malibu Creek and Lagoon Benthic Community TMDL. The development of implementation plans is crucial to attaining TMDL requirements.

Los Angeles Water Board staff intends to develop a waiver to implement control of the nonpoint sources of trash in several of the previously-adopted trash TMDLs.

Los Angeles Water Board staff will work with horse and livestock owners to develop new regulatory programs required to implement the Ventura River Algae TMDL.

Los Angeles Water Board staff meet regularly with the Port of Los Angeles and Port of Long Beach as they develop special studies including bioaccumulation models and fish tracking studies which will be important for the planned revisions to the Greater Los Angeles and Long Beach Harbor Waters metals and toxics TMDL. The same workgroup is also working closely with State Board staff to develop implementation provisions to the Sediment Quality Objectives (SQO) Part 1 and, with other stakeholders, the development of SQOs Part 2.

TMDL staff are also closely involved in development of Quantified Microbial Risk Assessment (QMRA) methods which may be used in this Region to modify beach bacteria TMDLs. Separate, but related QMRA efforts are taking place at three beaches in the Los Angeles Region, at this time.

CENTRAL VALLEY REGIONAL WATER BOARD TMDL PROGRAM

Fiscal Year 2013-2014

Accomplishments, Challenges and Implementation

This summary identifies those accomplishments, initiatives and challenges of the Central Valley Regional Board's TMDL Program for fiscal year 2013–2014 that are not necessarily reflected in the End of Year Report generated by Planner Tracker. In 2013-2014, TMDL Program staff levels remained the same as the previous fiscal year, 12.6 PY.

TMDL program staff is coordinating implementation of multiple previously adopted TMDLs that encompass many of the major rivers in the Region and the Delta, and staff is working on developing numerous new TMDL projects that will address dozens of impairment listings. Implementing previously adopted TMDLs in a manner that produces the water quality improvements envisioned in the TMDLs continues to be a very resource intensive effort. Following is a summary of TMDLs in the implementation and development phases:

Region 5 TMDLs¹ / 303(d) Listings			
Constituent	Implementation Phase	Adopted by CVRWQCB in SFY 13-14	Under Development
Metals and Mercury	18		46
Pesticides	46	47	21
Salt and Boron	2		
Selenium	3		
DO, Nutrients	2		
Pathogens	8		
Total	79	47	67

¹Pollutant/waterbody combinations. Statewide reservoir mercury TMDL project is 75 listings, of which 46 are in Region5.

ACCOMPLISHMENTS

Central Valley Chlorpyrifos and Diazinon (OP) Basin Plan Amendment

This amendment, which addressed 47 303(d) listings on 31 water bodies, was adopted by the Central Valley Water Board in March 2014.

Delta Mercury TMDL

Control of mercury in the Delta watershed has been a key focus of the Central Valley's pollution prevention and TMDL Program work. We have been working with over 45 dischargers named in the TMDL that had responsibility for complying with Basin Plan requirements (methylmercury studies, mercury minimization programs, and exposure reduction program). We formed an independent technical advisory committee and the TAC reviewed nine concept proposals and study work plans, addressing methylmercury from municipal wastewater treatment, urban stormwater, managed wetlands, tidal wetlands, open water channels, and irrigated agriculture. The Executive Officer has approved Methylmercury Control Study Work Plans for all of the groups. We are also working with the dischargers and stakeholder groups to develop and implement an exposure reduction program to reduce human exposure to mercury-contaminated fish. The Executive Officer approved the implementation strategy in 2013. We received Cleanup and Abatement Account funds and are working with the Delta Conservancy to implement the program. In addition, the dischargers are funding a portion of the program.

OP Pesticides Implementation

TMDL staff and regulatory staff continue to coordinate and report on the implementation of four previously adopted OP pesticide TMDLS and are seeing positive improvements in water quality. In addition to the already – delisted Sacramento and Feather Rivers, most but not all reaches of the San Joaquin River, the Delta Waterways and Sacramento County Urban Creeks are meeting the diazinon and chlorpyrifos water quality objectives. These declines are expected to continue as these chemicals are a focus of the Irrigated Lands program.

Coordination with DPR and EPA’s Office of Pesticide Programs

We continue to work with DPR and EPA’s Office of Pesticide Programs (OPP) to change pesticide registrations and use regulations to be more protective of water quality. This year we provides comments on OPP’s review of the pehnoxy herbicides 2-4DB, 2-4DP and MCPA, the insecticides thiophanate-methyl and carbendazim, and the pyrethroid insecticide metofluthrin

We also coordinated with DPR, other Water Boards and dischargers on addressing pyrethroids in wastewater effluent and fipronil and worked with DPR on planning monitoring of new and understudied pesticides.

San Joaquin River Dissolved Oxygen

The last of the TMDL Control Program studies was scheduled to be completed by December 2013; however an external review of these studies raised significant concerns about the results, and the final report for the studies have not been completed. Since 2007, DO concentrations in the Stockton Deep Water Ship Channel (channel) have improved; excursions are only observed from June through October as compared to year-round. The large aeration facility, constructed in 2007, and now owned by the Port of Stockton, was operated in 2012 to increase DO concentrations in the river. These operations continued in 2013 and because of the aeration operations, the excursions were documented for less than 4 hours that year. Internal coordination continues to ensure Regional Board permits include language implementing the TMDL, Staff has developed an internal recommendations report for management to discuss alternatives for addressing the DO impairment in the channel and has been working closely with State Board’s Water Rights staff to evaluate the fall DO objective. Staff has also met with fish agencies to discuss the fall DO objective and will be bringing our recommendations to the Board by the end of 2014.

CHALLENGES AND RESPONSES TO CHALLENGES

2012 303(d) List Update

For FY 2013/2014, staff had anticipated beginning work on decision factsheets based on earlier schedules of LOE development. The proposed changes in the Listing Policy and the revised focus on Regions 1, 6 and 7 for the 2012 effort has delayed work on the decision factsheets. Instead of working on decision factsheets, we worked with State Board staff on questions regarding appropriate beneficial use to assign for LOEs, the appropriate evaluation guideline to use for LOEs associated with narrative objectives (mostly for pesticides), evaluation of LOEs for mercury in fish tissue, coordinating meetings the Pyrethroid Working Group, and providing training for USFS staff on the integrated report.

INITIATIVES IN TMDL DEVELOPMENT AND IMPLEMENTATION

Statewide Reservoir Mercury TMDL

Since 2011, Central Valley Regional Board staff, other regions and State Board have been collaborating in the planning and development of a Statewide Reservoir Hg TMDL. This TMDL will address 74 currently listed impaired reservoirs, about 75 additional reservoirs that are

anticipated to be included on the next 303d list, and it will address impairments that are identified in the future. Region 2 and 5 staff is developing the scientific basis and technical analysis that will be included in the staff report and are developing the framework for a statewide policy. Region 5 has been involved with focused stakeholder meetings to describe the program and hear about what should be considered in the program. In addition, we have been meeting with the some of the reservoir owners to discuss water quality management studies and pilot tests.

Statewide Urban Pesticide Project

A statewide effort to support addressing existing urban pesticide listings, and the overall issue of pesticide toxicity in urban streams was started this year. The effort involves a workgroup of staff from Regions 2, 3,4,5,8 and 9, SWRCB, EPA and DPR. This workgroup produced a preliminary internal draft report this year. When complete in fall 2014, the report will summarize potential ways to leverage resources and increase consistency and effectiveness at resolving these impairments and preventing future impairments, through coordinated monitoring, planning, implementation and interagency coordination.

California Regional Water Quality Control Board, Lahontan Region
TMDL Program – Fiscal Year 2013-2014
Accomplishments and Challenges (End of Year Essay)

Introduction

Lahontan Water Board staff accomplished several TMDL implementation tasks during fiscal year (FY) 2013-2014, but the TMDL work was dominated by:

1. Determine Pathogen Sources
2. 2012 Integrated Report (Approved by Lahontan Water Board in June 2014)
3. Lake Tahoe TMDL Implementation

Major Accomplishments

- Determine Pathogen Sources - Region 6 staff contracted with the University of California, Santa Barbara, to sample for 16 bacteria-impaired waterbodies in the eastern Sierra Nevada, from the Walker River south to Lone Pine. Water Board and Regional SWAMP staff conducted five longitudinal waterbody assessments. These assessments consisted of sampling the waterbodies five times monthly during summer and fall seasons. Additionally, Water Board contracted UC Davis to sample for fecal indicator bacteria in the Susan River. Some of the samples were analyzed with Microbial Source Tracking to determine bacteria sources through a contract with UC Santa Barbara, Sierra Nevada Aquatic Research Laboratory and a contract with UC Davis.
- Integrated Report (IR) –Region 6 is in the first group of three regions to work on IR decisions in the current cycle under the new IR decision timetable. In FY 2013-14 staff finished evaluation of data informing the IR, authored the Lahontan Region IR staff report, and successfully presented the IR for adoption by the Lahontan Water Board at its June 2014 meeting. The Regional Board adopted IR is located on the Lahontan Region website: http://www.waterboards.ca.gov/rwqcb6/water_issues/programs/tmdl/303d_305b/
- Lake Tahoe TMDL Implementation – Local governments, transportation agencies, and natural resource managers are collectively taking steps to implement the Lake Tahoe TMDL. The Lahontan Regional Water Quality Control Board (Water Board) and Nevada Division of Environmental Protection (NDEP) are pilot testing a comprehensive implementation tracking and adaptive management process known as the Lake Tahoe TMDL Management System. In addition to quantitative load reduction tracking for urban discharges, the

Management System includes detailed activity-based tracking for load reduction practices on forested lands and stream channels and clearly defined program reporting and adaptive management processes. Initial TMDL Management System products include the *2010-2013 Synthesis of Findings and Program Adjustment Recommendation Memo*, a document synthesizing new findings and TMDL Program adjustment recommendations that provides an overview of TMDL-related science and learning since 2010.

As of July, the Lake Tahoe TMDL Program has an official website, a central hub for information related to implementation and adaptive management of the Lake Tahoe TMDL. Users may access TMDL Program tools and manuals, observe the progress of implementation efforts, and provide input that will be considered in helping to improve TMDL Program effectiveness. <https://www.enviroaccounting.com/TahoeTMDL/Program/Home>

Other TMDL Accomplishments

- Statewide Mercury in Reservoirs Project – Region 6 staff spent significant effort participating in the Statewide Mercury in Reservoirs project during FY 13-14. Staff participated on the Steering Committee for the project and coordinated three stakeholder meetings to inform the public and to solicit input.
- Susan River mercury - Assisted USFS in data review of the uppermost reach of three Susan River reaches impaired for mercury. Information provided in the USFS report was successfully used to present a proposal to secure Discretionary Contract monies to fund mercury sampling and analysis of the lower two affected reaches of the Susan River, from Susanville to Honey Lake.
- Mercury Fish Consumption Advisories - Staff coordinated with OEHHA to develop fish consumption advisories for Silverwood Lake and Little Rock Reservoir. The sampling and analysis was supported by SWAMP. Press releases and OEHHA Advisories are located on the Lahontan Water Board SWAMP website, at the bottom of the page: http://www.waterboards.ca.gov/lahontan/water_issues/programs/swamp/index.shtml
- Bishop Creek Bacteria Advisory – Staff worked with Inyo County Department of Public Health to assess Bishop Creek for possible impairment and human health risk. Staff presented initial sampling data to the County, which issued a health advisory. Bishop Creek hosts high recreational usage. The sampling data may result in listing Bishop Creek on the 303(d) list for bacteria impairment during the next listing cycle.

TMDL Implementation

Region 6 has six adopted TMDLs:

Lake Tahoe Hydrologic Unit

- Lake Tahoe - phosphorus, nitrogen, and fine sediment particles
- Heavenly Valley Creek - sediment
- Blackwood Creek - sediment

Truckee River Hydrologic Unit

- Truckee River - sediment
- Squaw Creek - sediment

East Fork of the Carson River Hydrologic Unit

- Indian Creek Reservoir - phosphorus

Four of the watersheds listed above (Tahoe, Heavenly, Truckee, and Squaw) have dischargers that are regulated by permits containing the pertinent aspects of a TMDL implementation plan.

Heavenly Valley Creek – Co-permittees (Heavenly Ski Resort and US Forest Service) maintained and implemented Best Management Practices (BMPs) on roads, ski runs, facilities, and parking lots at Heavenly Ski Resort. Staff is coordinating with co-permittees on an implementation status report, draft expected from co-permittees in August 2014.

Blackwood Creek - The major dischargers in Blackwood Creek are two land management agencies: the US Forest Service and the California Tahoe Conservancy. Both agencies have conducted stream restoration projects and associated post-restoration stream monitoring.

Truckee River – Permittees maintained BMPs for sediment control and monitored water quality. The US Forest Service decommissioned and rehabilitated dirt roads and legacy sites.

Squaw Creek – Permittees maintained BMPs and conducted erosion control under permits.

Indian Creek Reservoir – Staff updated the Indian Creek Reservoir TMDL Status Report: http://www.waterboards.ca.gov/lahtontan/water_issues/programs/tmdl/indian_creek/docs/icr_implstrpt.pdf

COLORADO RIVER BASIN REGIONAL WATER BOARD TMDL PROGRAM

END OF THE YEAR ESSAY

Fiscal Year 2013-2014

This essay identifies accomplishments, challenges and initiatives of the Colorado River Basin Regional Board's TMDL Program for fiscal year 2013–2014 that are not reflected in the End of Year Report generated by Planner Tracker. Accomplishments include: 1) Continued monitoring and assessment of the New River at the International Boundary; and 2) Continued assistance to Imperial County Farm Bureau (ICFB) and Imperial Irrigation District (IID) programs in implementing the Imperial Valley Sediment TMDLs and Prohibition. Our biggest challenge was that the R7 contract proposal for monitoring was not approved by the State Board. Initiatives include assistance in developing and implementing agricultural waivers for all the main agricultural areas.

ACCOMPLISHMENTS

Monitoring and Assessing the New River at the International Boundary

Regional Board staff has been conducting monthly monitoring activities on the New River at the International Boundary for about 14 years as resources permit. In addition, in cooperation with the U.S. Section of the International Boundary and Water Commission, Regional Board members and staff participate in bimonthly tours in Mexicali, Mexico to survey and report water quality activities on the New River in Mexico. Both the monitoring activities and the tours continue to provide the TMDL Program with valuable information for the implementation of New River TMDLs for dissolved oxygen, pathogens, sediments, and trash, and for assessing other New River impairments in the 303(d) List

Long Term TMDL Implementation for the Agricultural Community in Imperial County

Staff conducted nine watershed meetings with ICFB, IID, and local farmers to coordinate TMDL implementation in Imperial Valley. These important stakeholder efforts are ongoing and part of a greater effort to address impairments in Imperial Valley. Regional Board staff has been managing grants related to this effort since 2003.

CHALLENGES AND RESPONSES TO CHALLENGES

Monitoring Proposal Was Not Approved

State Board is no longer approving monitoring and laboratory contracts. According to State Board, monitoring should be done by either the dischargers or by SWAMP. Regional Board is working on getting monitoring from the agricultural dischargers through agricultural waivers, however, it is going to take a few years to implement agricultural waivers and get monitoring results. Also SWAMP does not have the resources to conduct the needed monitoring to address the 303(d) listings in terms of frequency and volume of samplings. As a result, several important monitoring events have been cancelled. In some instances these challenges are mitigated by the use of other programs' laboratory contracts, when available. The SWAMP program only collects and analyzes samples twice a year and it may take several years at this pace to collect enough samples to meet the Delisting Policy requirements. This is more critical when fish tissue samples are needed to assess the impairment.

INITIATIVES

Development and Implementation of Agricultural Waivers

The Regional Water Board has adopted three agricultural waivers, and plans to adopt a fourth and final waiver in September 2014. The three adopted waivers were for: 1) Palo Verde Valley and Palo Verde Mesa (about 131,000 acres) in Riverside and Imperial Counties (adopted in September 2012); 2) Bard Valley (about 7,000 acres) in Imperial County (adopted in January 2013); and 3) Coachella Valley (about 60,000 acres) in Riverside County (adopted in June 2014). Regional Board Staff plans to bring the Imperial Valley agricultural waiver (about 540,000 acres) in Imperial County to the Regional Board for their consideration and approval in September 2014. Development and implementation of agricultural waiver for Imperial Valley (about 540,000 acres), will bring all agricultural discharges in Region 7 into compliance with the Water Code. This Initiative will assist in controlling impairments by agricultural wastes in the Region.

SANTA ANA REGIONAL WATER BOARD TMDL PROGRAM
Fiscal Year 2013-2014
Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, initiatives and challenges of the Santa Ana Water Board's **TMDL development, TMDL implementation and TMDL Program** for fiscal year 2013–2014 that are not reflected in the End-of-Year Report generated by Planner-Tracker.

ACCOMPLISHMENTS

TMDL Development: Big Bear Lake Mercury TMDL

- Continued coordination with State Water Board/Regional Board staff on the statewide development of the Mercury Policy for impaired lakes. Several Regional Board Staff are participating on the stakeholder committee and technical committees and have reviewed the draft staff report and other documents.

TMDL Development: Newport Bay Watershed Organochlorine Compounds TMDLs

- The Office of Administrative Law approved the TMDL Basin Plan amendment July 26, 2013. The amendment was approved by US EPA, Region 9, on November 12, 2013.
- Throughout the approval process, the dischargers continued to proceed with specific implementation tasks proactively. Coordination activities among Regional Board staff, dischargers and other stakeholders on compliance activities include implementing a comprehensive watershed monitoring program, which has resulted in collecting several years' worth of water column, sediment and tissue data.

TMDL Development: Newport Bay Watershed Selenium TMDLs

- Board staff determined that the adoption of one Basin Plan amendment incorporating both selenium (Se) site-specific objectives (SSOs) and Se TMDLs concurrently would result in excessive workload and time. As a result, the decision was made to uncouple the TMDLs and SSOs into separate amendments in order to proceed with development and timely adoption of the TMDLs.
- The draft technical staff report (TSR) is currently being revised to incorporate revised tissue-based targets.
- The revised TSR will require additional independent peer review because the biological aspects of the SSOs/TMDLs were not fully considered during the first peer review.
- During FY2014, the Regional Board Executive Officer approved a BMP Strategic Plan submitted by the regulated stakeholders intended to attain selenium reductions, and help meet selenium fish tissue and bird egg targets.
- The Plan relies upon a phased implementation approach to demonstrate protection of beneficial uses in the Santa Ana-Delhi Channel and San Diego Creek Sub-Watersheds. These early implementation measures continue to be monitored to evaluate selenium reductions in rising groundwater, the primary source of elevated selenium concentrations in surface waters.

TMDL Development: Newport Bay Watershed Copper/Metals TMDLs

- Board staff is developing a copper TMDL Basin Plan amendment for Upper and Lower Newport Bay that includes an implementation plan. When approved by the State Board, OAL, and US EPA, the TMDLs amendment will supersede the metals TMDLs promulgated by US EPA in 2002.
- The technical staff report will also address several other metals, but focuses on the adoption of a copper TMDL. The TMDL impairment assessment (IA) demonstrates that dissolved copper exceeds CTR criterion in Upper and Lower Newport Bay, and is the primary cause of adverse impacts to beneficial uses.

- Other metals of concern include arsenic, chromium, zinc and mercury, whose concentrations exceed water quality objectives in portions of the Bay, and may also be causing adverse impacts to beneficial uses. Board staff hopes to address these other metals through a non-TMDL action plan. Sediment toxicity is common throughout the Bay. Sediment copper, zinc and mercury exceed sediment guidelines in parts of Lower Newport Bay.
- The findings of the IA data conclude that the use of copper antifouling paints (Cu AFPs) on boats is the overwhelming source of copper inputs into the Newport Bay watershed. To a lesser degree, tributaries flowing into Newport Bay are also a source. However, the TMDL will focus on the reduction Cu AFPs, the primary source of copper inputs into Newport.

TMDL Implementation: Middle Santa Ana River Bacterial Indicator TMDL

- Regional Board staff continued to coordinate with stakeholders in their implementation of the MS4 agencies' Dry Season Comprehensive Bacterial Reduction Plan (CBRP). During FY2014, stakeholders conducted extensive monitoring of storm drain inlets to identify sources of excessive bacterial indicators concentrations. The stakeholders were able to target specific BMPs to address the elevated bacteria concentrations once these locations have been identified.
- A TMDL-focused MS4 Permit was developed by Regional Board staff and adopted by the Regional Board for the 2 cities within the Los Angeles Board's jurisdiction (Claremont and Pomona) whose storm drain systems partially drain to the Middle Santa Ana River. This MS4 Permit requires that Claremont and Pomona develop and submit CBRPs to address bacterial levels in their MS4s in a manner consistent with the other MS4 agency's CBRPs.
- CBRPs that were developed by the cities of Claremont and Pomona were approved by the Santa Ana Regional Board.

TMDL Implementation: Lake Elsinore/Canyon Lake Nutrient TMDL

- The Regional Board approved the MS4 agencies' draft Comprehensive Nutrient Reduction Plan (CNRP) and the municipalities have begun implementation of that plan.
- Consistent with the approved CNRP, stakeholders implemented an Alum treatment program for Canyon Lake that resulted in significant improvement in Canyon Lake water quality. Stakeholders expect to continue the Alum application program.
- Board staff continued to address compliance issues as a result of issuance of 13267 Investigative Orders to approximately 450 Agricultural Owners. The 13267 Order requires continued TMDL monitoring and completion of the Final Ag Nutrient Management Plan. Progressive enforcement actions are being taken against Agricultural Owners who failed to comply with the 13267 Investigative Order and subsequent Notice of Violations.
- Continued to work with stakeholders to identify funding sources for projects designed to reduce the flux of in-lake sediment nutrient loads and thereby meet the TMDL in-lake nutrient sediment load reduction requirements.

TMDL Implementation: Big Bear Lake Nutrient TMDL, Newport Bay Watershed Nutrients TMDLs, Newport Bay Watershed Diazinon/Chlorpyrifos TMDLs, Newport Bay Sediment TMDLs, Newport Bay Fecal Coliform TMDL, Newport Bay Watershed Toxics TMDLs

- Board staff continued development of waste discharge requirements for the USFS, the principal land owner in the Big Bear Lake watershed. Their active participation is required to implement the Big Bear Lake Nutrient TMDL.
- The nutrients TMDLs, diazinon/chlorpyrifos TMDLs, sediment TMDLs and fecal coliform TMDLs have been implemented by the stakeholders for several years, and are in need of revision and updating. As such, during FY2014, Board staff initiated review of the TMDLs' implementation plans to determine the next phase(s) of TMDL tasks.

- A staff report developed by Board staff for the diazinon/chlorpyrifos TMDLs determined that diazinon and chlorpyrifos are no longer impairing Newport Bay watershed water quality standards. The report recommends delisting Newport Bay for these constituents.
- Board staff review of data generated under the Newport sediment TMDL established that the dischargers' compliance monitoring program could be streamlined, in response to dischargers' request. On February 14, 2014, the Regional Board Executive Officer agreed with staff's recommendations, and approved changes to the TMDL monitoring and reporting program.
- Provided extensive review and comments on stakeholder proposals for meeting TMDL WLAs.
- Board staff participated in the RB/SB effort to incorporate approved TMDLs' targets and allocations into the statewide Caltrans permit.
- In addition, Board staff is conducting a comprehensive evaluation of toxic pollutants in Newport Bay, including selenium. The collection and analysis of sediment, fish tissue and water column data has spanned approximately eight years. At times, budget constraints have modified the program, but it continues to be an extremely valuable source of data and information.

CHALLENGES AND RESPONSES TO CHALLENGES

One primary challenge for the Regional Board's TMDL Program continues to be the numerous requests for Board staff response to and/or participation in, new and/or continuing activities and programs involving constituents of TMDL concern in the Santa Ana Region, but are issues that are not necessarily directly related to established TMDL development and/or implementation priorities. Examples in FY2014 include the Onsite Wastewater Treatment System impact investigations, Statewide TMDLs (mercury, urban pesticides), nutrient numeric endpoint (NNE) committee, state permits/policies review and comment, and Performance Target/Report Card development/assessment. The revised contracting process required expenditure of resources that could have been utilized in priority TMDL program areas. These activities greatly constrained already limited TMDL Program staff resources. Resources are simply not sufficient to address all needs and requirements. Prioritization of activities is necessary, often resulting in painful delays in tasks.

The development of selenium (Se) TMDLs for San Diego Creek and Newport Bay watershed continues to be extremely challenging because (1) rising groundwater at diffuse locations in the watershed is the predominant source of Se loading to surface water; (2) there is no standard conventional treatment technology available to treat selenium; and, (3) Se is a very complex constituent and its nature, fate and biological effects are highly site-specific. Stakeholders in the watershed committed significant resources (millions of dollars) to investigate selenium in the watershed and pilot test potential selenium treatment technologies that resulted in their submission of a best management practices (BMPs) Strategic Plan to address both rising groundwater and point source discharges to achieve the proposed TMDLs that is being updated. As noted above, the Regional Board Executive Officer approved the Plan. Economic and certain legal difficulties must be addressed in order to proceed with implementation of TMDLs. Stakeholders are investigating possible approaches to achieve selenium reductions; Board staff expects to reflect the results, as appropriate, in a TMDL implementation plan.

A continuing major impediment that will more than likely delay compliance with the Big Bear Lake Dry Season Nutrient TMDL beyond 2015, as specified TMDL, is the fact that the US Forest Service continues to be a non-participant in any stakeholder coordinated TMDL implementation efforts. The USFS indicates they do not have the authority or funds to comply with TMDL requirements. Forest lands comprise approximately 80% of the Big Bear Lake watershed and therefore, discharges from forest lands are significant. Regional Board staff are continuing to develop regulatory strategies to encourage involvement of the USFS in TMDL activities.

INITIATIVES IN TMDL IMPLEMENTATION

The Santa Ana region continues to place strong emphasis on TMDL implementation activities, including; 1), coordination with Regional Board and State Board permit and TMDL program staff to incorporate TMDL requirements into appropriate permits; 2), reviewing and commenting on TMDL deliverables; 3), interacting with stakeholders to ensure TMDL implementation timelines and requirements are met; and 4), taking appropriate enforcement steps to ensure TMDL implementation actions occur as required.

Many TMDLs, including the priority TMDLs for Newport Bay metals and selenium, and Big Bear Lake Mercury, are very complicated and controversial and requires extensive staff resources to address stakeholder concerns about the targets, allocations and implementation. With respect to the Big Bear Lake mercury TMDL, in addition to stakeholder issues with the proposed target, the major challenge is how to address atmospheric deposition, the primary mercury source to Big Bear Lake. The Regional Board has no regulatory authority over air deposition sources; Board staff has been attempting to work with the responsible air agencies. In addition, Board staff continues to work actively with State Board staff and the other regions on development of the statewide Mercury Policy where atmospheric deposition will likely be addressed.

Addressing agricultural (Ag) load allocations and Ag TMDL requirements also continue to be a challenge. Most of the Regional Board's adopted TMDLs require specific actions by the Ag operators/owners including load reductions, monitoring, etc. TMDL staff continues to coordinate with NPS staff on the development of an Ag waiver that will serve as the regulatory enforcement mechanism for compliance with the draft Agricultural Nutrient Management Plan.

SAN DIEGO WATER BOARD TMDL PROGRAM
Fiscal Year 2013-2014
Accomplishments, Challenges and Initiatives

This summary identifies those accomplishments, challenges and initiatives of the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) TMDL Program that are not reflected in the End of Year Report generated by Planner/Tracker.

ACCOMPLISHMENTS

Loma Alta Slough TMDL Alternative Approach – Adopted by Regional Board

On June 26, 2014, the San Diego Regional Water Quality Control Board (San Diego Water Board) adopted its first single action TMDL to address impairment on Loma Alta Slough. This approach uses the existing regional storm water permit as the primary mechanism for TMDL implementation rather than going through the traditional TMDL process. Loma Alta Slough was placed on the Clean Water Act 303(d) List for excessive algae growth (eutrophication).

Beginning in 2006, a dedicated local stakeholder group worked to develop an important and innovative approach for addressing eutrophic waterbodies using biological indicators (associated with the Nutrient Numeric Endpoint approach) rather than traditional water chemistry as a measure of environmental health. The use of the Numeric Nutrient Endpoint approach implements the U.S. Environmental Protection Agency's (U.S. EPA) requirement for states to develop nutrient criteria.

The San Diego Water Board's regional municipal storm water permit adopted in May 2013, includes the requirement for the permit holders to develop Water Quality Improvement Plans (WQIPs) for each watershed. The WQIPs are comprehensive management programs that will include strategies for compliance with TMDLs. Relying on existing permit provisions will save the San Diego Water Board and the City of Oceanside both time and money in their collaborative efforts to successfully eliminate excessive algae growth in the slough.

Los Penasquitos Lagoon Sedimentation TMDL – TMDL Approval

The Los Penasquitos TMDL was adopted by the San Diego Water Board in June 2012. Staff immediately initiated the subsequent approval process and has completed the State Board public review and comment period. All necessary TMDL documents have been submitted to the Office of Administrative Law (OAL) and to the U.S. EPA for approval. The OAL approval was received on July 14, 2014. TMDL documents for U.S. EPA approval are still under review.

Santa Margarita Nutrient TMDL – TMDL Modeling Underway

Addressing the nutrient impairment in the Santa Margarita River Watershed (i.e, River and Estuary) is one of the San Diego Water Board's highest priorities. Staff members have been engaged in a large, well organized and well-funded stakeholder group during the past several years. The watershed modeling effort, which provides watershed loading data, has recently been completed by Tetra Tech. The results will be incorporated into the estuary hydrodynamic model, which is now calibrated by SPAWAR scientists. We expect results will be available by December 2014.

NASSCO and BAE (aka Southwest Marine) Shipyard Sediment Cleanup – After adopting Cleanup and Abatement Order (CAO) No. R9-2012-0024 on March 14 2012, the San Diego Water Board issued Waste Discharge Requirements (WDR) Order No. R9-2013-0093 for the Shipyard Sediment Remediation Project on July 10, 2013. The parties

commenced remedial activities in September 2013 using a combination of dredging of contaminated sediments and placement of clean sand cover in areas where dredging is not feasible. Remediation work was completed at the South Sediment Remediation Area in March 2014; and is scheduled to be completed in March 2016 at the North Sediment Remediation Area.

Strategy for Achieving Healthy Waters in San Diego Bay -- Development and Implementation Underway

Addressing the impairments in San Diego Bay is one of the San Diego Water Board's highest priorities. Numerous historical restoration efforts have been completed in San Diego Bay and numerous others are currently underway. However, many more portions of San Diego Bay are impaired by a variety of pollutants and stressors and the entire Bay is currently CWA 303(d) listed for PCBs in fish tissue. Staff has recently completed the draft document "Strategy for Achieving Healthy Waters in San Diego Bay" (The Bay Strategy) as a guide to manage resources in the best possible way to achieve healthy waters in San Diego Bay. On November 13, 2013, the San Diego Water Board adopted a Practical Vision designed to ensure that the staff, funding, authority, tools, and influence of the Board are put to the best possible use to achieve healthy waters across the Region. The Bay Strategy implements this Practical Vision for Healthy Waters.

Two special studies for San Diego Bay that are in alignment with The Bay Strategy include a bioaccumulation study up the benthic food web and a fish consumption study. On July 30, 2014, the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) held a public information meeting regarding these two studies for San Diego Bay:

2012 Integrated Report Development -- Underway

Staff has devoted a significant amount of time and staff resources to the development of the 2012 Integrated Report in collaboration with State Board staff. Staff members in the Monitoring and Research Unit (MARU) have evaluated thousands of lines of evidence (LOEs) over the last year.

CHALLENGES

Toxic Pollutants in Sediment for Creek Mouths of Paleta, Chollas, and Switzer Creeks, San Diego Bay -- TMDL Development (6 listings)

Toxic Pollutants in Sediment for Downtown Anchorage and B Street/Broadway Pier, San Diego Bay -- TMDL Development (4 listings)

Both projects were postponed for FY 13/14 and will be revisited in FY 14/15 as a consolidated project. The projects were initially combined and have been developed to date using the same approach and methodologies.

These TMDL sediment contamination projects were postponed for the following reasons:

- The San Diego Water Board has shifted the focus for addressing PCB and chlordane sediment contamination to the site cleanup program considering that PCBs are legacy sediment contamination, and is not found in watershed runoff. Chlordane was banned for all uses in 1988. Although chlordane is found in low concentrations in watershed runoff, recent studies suggest that concentrations reported at most locations in San

Diego Bay are not of concern for marine organisms. For chlordane, a report providing human health and aquatic-dependent wildlife risk assessment screening values indicated that chlordane was not at a risk level of concern for the locations studied in San Diego Bay.

- TMDL staff members were redirected to work on the Loma Alta Slough Eutrophication TMDL (discussed above), which was elevated to a priority status for completion this fiscal year. The TMDL was elevated to meet U.S. EPA deadlines and to take advantage of local stakeholder efforts to develop a Water Quality Improvement Plan for the regional MS4 Permit. The Loma Alta Slough project became a high priority when the MS4 permit implementation created a prototype mechanism for a streamlined TMDL alternatives process.
- The third organic pollutant in these two TMDL projects is PAHs. The City of San Diego was delayed in a study on the airborne contribution of PAHs to the watersheds due to very low rainfall this year.
- The San Diego Water Board intends to initiate the peer review process for the revised TMDL analyses.
- The office-wide “Strategy for Achieving Healthy Waters in San Diego Bay” (discussed above) will be used to coordinate sediment cleanup work with TMDL development results in an effort to more efficiently and effectively manage, maintain, and restore our natural resources.

INITIATIVES in TMDL Development

Management and staff continue to actively seek opportunities for using TMDL alternatives such as the Water Quality Improvement Plans in the newly adopted Regional MS4 permit with subsequent conversion of 303(d) listed waters to category 4B or 4C. We developed and received Regional Board adoption of our first TMDL, the Loma Alta Slough TMDL, by way of a single Board action that will incorporate this approach. We are considering the single action approach for our Tijuana River Sediment and Trash, San Marcos Nutrients, and Famosa Slough Nutrients TMDLs.

In addition, consistent with our Healthy Waters Practical Vision, in 2014/15 we plan to make the time to prioritize each of the waters on the 2008 303(d) list. After prioritization, we will establish a cross branch team to select and implement the most effective regulatory tool(s) for addressing each high priority impaired waterbody.

Appendix 1

Status of FY 13-14 TMDL Implementation Tasks

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
1	Elk River Sediment	Instream Load Reduction - Management	Management of contract bidding process, outreach, and technical scope of work for reduction of instream sediment loads.	(1) Correspondences, (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Freshwater Creek Sediment	Cancelled - Revisions of the WDRs - Coordination		(1) Correspondences, (2) Meeting Notes		Cancelled	Cancelled during development of the FY 13/14 Work Plan.	6/30/14	
1	Garcia River Sediment	Biological Objectives Workgroup	Includes Causal Analysis / Stress Identification Project	(1) Correspondences, (2) Meeting Notes, and (3) Regional Comments on Draft Products		Completed		6/30/14	6/1/14
1	Garcia River Sediment	Compliant Response		(1) Correspondences, (2) Inspection Reports, and (3) Enforcement as needed		Completed		6/30/14	6/1/14
1	Garcia River Sediment	Erosion Control Plans & Management Plans - Review		(1) Landowner completed Erosion Control Plans and Management Plans		Completed		6/30/14	6/1/14
1	Garcia River Sediment	Garcia River Monitoring Report		(1) Garcia River Monitoring Report		Delayed	Contractor delay in analyzing data. Report expected by 12/2014.	6/30/14	
1	Garcia River Sediment	Monitoring Reports - Review		(1) Landowner completed Monitoring Reports and (2) Inspection Reports		Completed		6/30/14	6/1/14
1	Garcia River Sediment	Outreach, Education & Coordination		(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Garcia River Sediment	Regional Board Update		(1) Summary Report		Completed		1/31/14	1/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	319 (h) Grant Management	For (1) Shasta RCD KTAP Tailwater Grant and (2) Klamath Watershed Partnership KTAP Pilot Project	(1) Correspondences, (2) Meeting Notes, and (3) Invoices		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Contract Management	For contract with Humboldt State University	(1) Correspondences, (2) Meeting Notes, and (3) Invoices		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Identification of Next River for Watershed Stewardship	Includes coordination with and identification of local lead partners.	(1) Selection of Next Watershed, (2) Correspondences, and (3) Meeting Notes		Delayed	Decision-making process through multiple stakeholders is taking longer than expected	2/28/14	
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Implementation Integration with KBMP, KTAP, KFAT, KHSA	KBMP Communications Strategy, Watershed Stewardship Frameworks, Forums, KTAP & NHD Integration, CEDEN data uploads	Integration of Implementation Efforts		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KBMP - Participation	KBMP = Klamath Basin Monitoring Program	(1) Meeting Notes, (2) Comments on Draft Documents, and (3) Correspondences		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KFAT Coordination	KFAT = Klamath Fish Health Assessment Team	(1) Agendas, (2) Meeting Minutes, (3) Correspondences, and (4) Webpage Management		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KFAT Participation	KFAT = Klamath Fish Health Assessment Team	(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KFAT Reporting	KFAT = Klamath Fish Health Assessment Team	(1) End of Year Summary		Completed		1/31/14	1/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KHSA & KBRA - Coordination	KHSA = Klamath Hydrologic Settlement Agreement. KBRA = Klamath Basin Restoration Agreement.	(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	KTAP - Participation	KTAP = Klamath Tracking and Accounting Program	(1) Correspondences, (2) Meeting Notes, and (3) Program Documents		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Klamath Water Quality Improvement Projects - Coordination		(1) Correspondences, (2) Meeting Notes, and (3) Project Documents		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Misc. TMDL Implementation & Outreach	May include work on thermal refugia issues, suction dredge mining, and other implementation issues.	(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Regional Board Update		(1) Summary Report		Completed		3/31/14	9/1/13
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	USFS Waiver Implementation		(1) Correspondences, (2) Inspection Reports, and (3) Meeting Notes		Completed		6/30/14	6/1/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	USFWS, BOR & TID Compliance with TMDL & MAA - Coordination		(1) Coordination, (2) Correspondences, and (3) Meeting Minutes		Completed		6/30/14	6/1/14

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
1	Klamath River Nutrients, Temperature, DO, and Microcystin.	Watershed Stewardship Approach - Coordination	Coordinate efforts on the Klamath Basin Watershed Stewardship Approach, starting with OR watersheds, then Shasta River, then next river.	(1) Coordination, (2) Correspondences, and (3) Meeting Minutes		Completed		6/30/14	6/1/14
1	Salmon River Temperature	Contract Management	For the contract with the Salmon River Restoration Council	(1) Correspondences, (2) Meeting Notes, and (3) Invoices		Completed		6/30/14	6/1/14
1	Salmon River Temperature	USFS Waiver Implementation		(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Scott River Sediment & Temperature	Compliant Response		(1) Correspondences, (2) Site Visits, and (3) Complaint Reports		Completed		6/30/14	6/1/14
1	Scott River Sediment & Temperature	Contract Management	For contracts with (1) Siskiyou County RCD and (2) UC Davis for groundwater study	(1) Contract Deliverables, (2) Correspondences, and (3) Invoices		Completed		6/30/14	6/1/14
1	Scott River Sediment & Temperature	Groundwater Study, Phase II - Coordination		(1) Correspondences, (2) Public Relations, (3) Document Review, and (4) Meeting Minutes		Completed		6/30/14	6/1/14
1	Scott River Sediment & Temperature	Outreach, Education & Coordination		(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Scott River Sediment & Temperature	TMDL Waiver Implementation	Implementation of the Scott River TMDL Waiver of WDRs (Resolution R1-2012-0084)	(1) Correspondences, (2) Inspection Reports, (3) Compliance Letters, and (4) Enforcement as needed		Completed		6/30/14	6/1/14
1	Scott River Sediment & Temperature	USFS Waiver Implementation		(1) Correspondences, (2) Inspection Reports, and (3) Meeting Notes		Completed		6/30/14	6/1/14
1	Shasta River DO & Temperature	Contract Management	For Shasta Valley RCD contracts	(1) Correspondences and (2) Invoices		Completed		6/30/14	6/1/14
1	Shasta River DO & Temperature	Endangered Species Issues - Coordination		(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Shasta River DO & Temperature	Ranch Planning, Workshops, Monitoring	Contract with Shasta Valley RCD	(1) Ranch Plans, (2) Workshop Notes, (3) Correspondences		Completed		6/30/14	6/1/14
1	Shasta River DO & Temperature	Regional Board Update - Fall		(1) Summary Report		Completed		12/31/13	1/1/14
1	Shasta River DO & Temperature	Waiver Implementation	Imp of Resolution R1-2012-0083 includes coordination of tailwater mgmt actions, outreach, consultations, enforcement, field inspections, and compliance letters..	(1) Correspondences, (2) Inspection Log Book, (3) Compliance Letters, and (4) Enforcement as needed		Completed		6/30/14	6/1/14
1	Shasta River DO & Temperature	Water Rights & Dedicated Cold Water Mtg Coordination		(1) Correspondences and (2) Meeting Notes		Completed		6/30/14	6/1/14
1	Shasta River DO & Temperature	Watershed Stewardship Monitoring Plan		(1) Watershed Stewardship Monitoring Plan	This is a subset of the Watershed Stewardship Report.	Overdue	Review draft is complete and multi-agency review is underway. (RMF 4/1/2013)	10/31/13	
1	Shasta River DO & Temperature	Watershed Stewardship Report		(1) Watershed Stewardship Report	Web-based report that includes estimates of progress towards TMDL targets, current conditions, and WQ priorities.	Overdue	Review draft is complete and multi-agency review is underway. Delay due to need for additional time to compile, review, and QA historical data. (RMF 11/5/2013)	10/31/13	
2	Butano & Pescadero Creeks sediment	Conduct Early Implementation	Review timber harvest plans as they become available	Timber harvest review and comment with possible field check/visit.	Draft timber harvest plan review, comment and possible field check/site visit	Completed		6/30/14	6/1/14
2	Guadalupe River Watershed Mercury	Conduct Implementation		Progress Report	Oversee SCR issued to GRDC and coordinate with County Parks on calcine-paved road cleanup	Completed	Transferred Guadalupe Mine/Guad. Rubbish Disposal Company CAO to RB2 Groundwater Protection Div. staff; managed Hicks Flat cleanup grant; coordinated re: Senator Mine cleanup grant and future project proposals for Jacques Gulch and Senator Mine	5/31/14	5/1/14
2	Lagunitas Creek Sediment	Conduct Implementation		Progress Report		Completed		6/30/14	6/1/14
2	Napa River Sediment	Assist with Litigation		Progress Report		Completed		6/30/14	6/1/14
2	Napa River Sediment	Conduct Implementation		Progress Report	Vineyard WDRs technical support and support for EPA TMDL Target Tracking and Accounting system tool	Completed		6/30/14	6/1/14
2	San Francisco Bay Legacy Pesticides	Conduct Implementation		Meetings/Educational Materials	Progress report	Cancelled		6/30/14	

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
2	San Francisco Bay Mercury	Conduct Implementation	Manage wetlands contract, review CEP & RMP workgroup products, consider next steps on Hg mines	Implementation status report	Coord. on sw implementation via MRP and CT sw permits, participate in RMP Hg Strategy workgroup, review deliverables for Wtrshd Hg NPDES wastewater permit	Completed	Transitioned Bella Oak mine site to RB2 Groundwater Protection Div. for cleanup followup; Held Oct. 2013 Bay Hg science workshop (tidal marsh focus); helped lead RMP Hg strategy; coordinated w/RB2 NPDES staff on Watershed Hg Permit deliverable review; Reviewed other plans relating to implementation.	6/30/14	6/1/14
2	San Francisco Bay PCBs	Conduct Implementation		Progress Report		Completed	Implementation completed includes: a) PCBs EPA initiative/site cleanup, b) PCBs strategy - RMP, c) In-house coordination looking at sources of PCBs.	6/30/14	6/1/14
2	San Francisco Bay Urban Creeks Diazinon	Conduct Implementation		Progress Report		Completed	Implementation tasks included: a) Providing comment to EPA on pesticide registration actions: b) Web site program updates c) Review of annual stormwater reports, and d) providing input on MRP 2.0	6/30/14	6/1/14
2	San Mateo Coast Pathogens (Pacifica Beaches and San Pedro Creek)	Conduct Implementation		Progress Report	Review munis' memo re: animal facility oversight, annual report re: implementation activities, and work with City on monitoring	Completed	Conducted San Pedro Ck dry season microbial water quality monitoring; coordinated with Pacifica & San Mateo County re: implementation activities, including development of an acceptable monitoring plan.	6/30/14	6/1/14
2	Tomales Bay Mercury	Compliance Monitoring		Progress Report	MMWD Soulajule Reservoir Hg study and follow-up	Completed	Completed Walker Creek Hg stormwater flow sampling at Walker Ck Ranch (just 1 sample due to few storms). Will try for additional samples in rainy season 2014-15.	6/30/14	6/1/14
3	Arroyo de la Cruz FIB TMDL	Implementation Analysis	Assess implementation of the 5 TMDLs approved by certification: Kim	Progress Report		Completed		6/30/14	6/1/14
3	Cholame Creek Fecal Coliform	Implementation Analysis	Assess implementation of the 5 TMDLs approved by certification: Kim	Progress Report		Completed		6/30/14	6/1/14
3	Morro Bay Pathogens	Finish Implementation		Finish Implementation		Not Started		6/30/14	
3	Pajaro River Fecal Coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	I.D. and Inform NPS Dischargers		Progress Report	Identify and outreach to dischargers subject to prohibition adopted through the TMDL: Kim	Completed		6/30/14	6/1/14
3	Pajaro River Fecal Coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	Investigate TMDL Implementation Progress		Progress Report	Investigate and report on impl activities conducted since TMDL adoption: Kim	Not Started		11/30/13	
3	Pajaro River Siltation/Sedimentation (including San Benito R., Llagas Cr., Rider Gulch Cr.)	I.D. & Inform NPS Dischargers	Identify and inform dischargers in watershed subject to prohibition: Kim	Progress Report	Identify and outreach to dischargers subject to prohibition adopted through the TMDL: Kim	Completed		6/30/14	6/1/14
3	Pajaro River Siltation/Sedimentation (including San Benito R., Llagas Cr., Rider Gulch Cr.)	Investigate TMDL Implementation Progress		Progress Report	Investigate and report on impl activities conducted since TMDL adoption: Kim	Not Started		9/30/13	
3	Pajaro River Watershed Nutrient TMDL	Conduct Early Implementation	Early implementation by Ag Program staff and grant management.	Meetings/Educational Materials		Completed		6/30/14	6/1/14
3	Salinas River Fecal Coliform	Implementation Analysis	Assess implementation actions in watershed subject to prohibition, including GRAP assessment: Kim	Progress Report		Completed		6/30/14	6/1/14
3	Salinas River Nutrients	Conduct Early Implementation	Ag Program implements elements of TMDL and grant management.	Meetings/Educational Materials		Completed		6/30/14	6/1/14
3	Salinas River Watershed Sediment Toxicity TMDL	Conduct Early Implementation	Conduct early implementation by stormwater staff and grant management.	Meetings/Educational Materials		Not Started		6/30/14	

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
3	San Antonio River FIB TMDL	Implementation Analysis	Assess implementation of the 5 TMDLs approved by certification: Kim	Progress Report		Completed		6/30/14	6/1/14
3	San Lorenzo Creek FIB TMDL	Implementation Analysis	Assess implementation of the 5 TMDLs approved by certification: Kim	Progress Report		Completed		6/30/14	6/1/14
3	Santa Maria River Watershed Fecal Indicator Bacteria TMDL	Conduct Early Implementation	Ag Program staff implements elements of TMDL, and grant management.	Meetings/Educational Materials		Completed		6/30/14	6/1/14
3	Santa Maria River Watershed Fecal Indicator Bacteria TMDL	Conduct Early Implementation	Stormwater Program staff conduct implementation of TMDL and grant management.	Meetings/Educational Materials		Completed		6/30/14	6/1/14
3	Santa Maria River Watershed Fecal Indicator Bacteria TMDL	Contract Management		Progress Report	Pesticide TMDL: Contract management and DPR coordination: Peter Meertens	Completed		6/30/14	6/1/14
3	Tularcitos Creek FIB TMDL	Implementation Analysis	Assess implementation of the 5 TMDLs approved by certification: Kim	Progress Report		Completed		6/30/14	6/1/14
3	Watsonville Slough Pathogen	Implementation Analysis	Assess implementation actions in watershed subject to prohibition: Kim	Progress Report		Completed		6/30/14	6/1/14
4	Ballona Creek Coliform (49)	Conduct Implementation (Caltrans)		WLA permit requirements		Completed		10/31/13	10/1/13
4	Ballona Creek Coliform (49)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Ballona Creek Metals (57)	Conduct Implementation (Caltrans)		WLA permit requirements		Completed		7/31/13	8/1/13
4	Ballona Creek Metals (57)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Ballona Creek Toxics (55)	Conduct Implementation (Caltrans)		WLA permit requirements		Completed		10/31/13	10/1/13
4	Ballona Creek Toxics (55)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Ballona Creek Trash (51)	Conduct Implementation (Caltrans)		WLA permit requirements		Completed		10/31/13	10/1/13
4	Ballona Creek Trash (51)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Ballona Wetland (65)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Calleguas Creek Historic Pesticides (5)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Calleguas Creek Metals (6)	Conduct Implementation (CALTRANS) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Calleguas Creek Trash (9)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Colorado Lagoon Pesticides, PAH's, PCB, Metals etc TMDL (82 & 83)	Conduct Implementation (Caltrans)		WLA permit requirements		Completed		10/31/13	10/1/13
4	Colorado Lagoon Pesticides, PAH's, PCB, Metals etc TMDL (82 & 83)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics(73a) and PAHs (74)	Conduct Implementation		Contract Progress Report		Cancelled	Wrong phase entered - actually special study oversight for readoption (development)	6/30/14	6/1/14
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics(73a) and PAHs (74)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	10/1/13
4	Dominguez, LA/LB Harbors, San Pedro Bay Metals (75 & 78), toxics(73a) and PAHs (74)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Echo, Lincoln, Peck, Calabasas Eutrophications (17) and Trash (16)	Conduct Implementation (LA MS4) Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
4	Harbor Beaches of Ventura County (nonCD)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Legg Lake Trash (40)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Legg Lake Trash (40)	LA MS4: Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14
4	Long Beach City Beach Indicator Bacteria	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Long Beach City Beach Indicator Bacteria	LA MS4: Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14
4	Los Angeles Harbor Beaches - Beach Closures (72)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Los Angeles River Metals (13)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Los Angeles River Metals (13)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Los Angeles River Metals (13)	LA MS4: Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14
4	Los Angeles River Nitrogen (11)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Los Angeles River Nitrogen (11)	LA MS4: Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14
4	Los Angeles River Pathogens (15)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Los Angeles River Pathogens (15)	LA MS4: Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14
4	Los Angeles River Trash (12)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Los Angeles River Trash (12)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts		Completed		12/31/13	12/1/13
4	Los Angeles River Trash (12)	LA MS4: Review TSOs and WMPs		Review TSOs and WMPs	required by LA MS4	Completed		6/30/14	6/1/14
4	Los Cerritos Channel Metals (84)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Los Cerritos Channel Metals (84)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts		Finalize requirements - RB adopts MS4		Completed		12/31/13	12/1/13
4	Los Cerritos Channel Metals (84)	LA MS4: Review TSO and WMPs		Review TSO and WMPs		Not Started		6/30/14	
4	Machado Lake Nitrogens (76)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Machado Lake Nitrogens (76)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Machado Lake Toxics (73b)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Machado Lake Toxics (73b)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Machado Lake Trash (81)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Machado Lake Trash (81)	Conduct Implementation (LA MS4) Review TSOs and MMPs		Review TSOs and MMPs		Completed		6/30/14	6/1/14
4	Malibu Creek Nutrients (50)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Malibu Creek Watershed Trash (63)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Malibu Creek Watershed Trash (63)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Malibu Pathogens (47 in part)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Malibu Pathogens (47 in part)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Marina Del Rey Toxics (54)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Marina Del Rey Toxics (54)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Marina del Rey Pathogens (46)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Marina del Rey Pathogens (46)	Conduct Implementation (LA MS4) Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	San Gabriel River Metals (39)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
4	San Gabriel River Metals (39)	Conduct Implementation (LB MS4) Finalize requirements - RB adopts MS4		Finalize requirements - RB adopts MS4		Completed		12/31/13	12/1/13
4	San Gabriel River Metals (39)	Conduct Implementation (LA MS4) Review TSO and WMPs		Review TSO and WMPs		Completed		6/30/14	6/1/14
4	Santa Clara River Chloride (31)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Santa Clara River Chloride (31)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Santa Clara River Coliform (23b & 34)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Santa Clara River Nitrogen (32)	Conduct implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Santa Clara River Trash (36)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
4	Santa Monica Bay Beach Closures/Coliform/Bacteria Indicators (48)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Santa Monica Bay Historic Pesticides (58)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Santa Monica Bay Offshore/Nearshore Debris (66)	Conduct Implementation LA MS4 Review TSOs and WMPs		Review TSOs and WMPs		Completed		6/30/14	6/1/14
4	Ventura River Estuary Trash (91)	Conduct Implementation (Caltrans) WLA permit requirements		WLA permit requirements		Completed		10/31/13	10/1/13
5	Clear Lake Nutrient TMDL Project	TetraTech Model		Nutrient Model Report	Tetra Tech to use the Loading Simulation Program for nutrients/phosphorus to: verify the original model results; run the model using the original data for calibration and newer data for validation; run the model using several implementation scenarios to evaluate which implementation practices would yield the greatest load reductions to Clear Lake.	Cancelled	canc. per EPA due to no funding.	6/30/14	
5	Delta Mercury TMDL Implementation	MERP Activities	MERP Activities	Develop workplan and budget	Participate in meetings with CDPH and/or independent contractor and community stakeholders to develop detailed annual budgets and workplans from the general MERP workplan. If funds are lacking, define what activities will constitute an acceptable MERP and help direct the activities. Direct CDPH and/or independent contractor to begin tasks. Review and accept progress reports.	Completed	Developed contract scope of work and schedule for MERP implementation activities. This work included numerous contract iterations with the Contract Office and the Delta Conservancy.	5/31/14	5/1/14
5	Delta Mercury TMDL Implementation	MERP- Funding	MERP- Funding	Manage MERP Funding efforts	Track incoming discharger commitments and funds. Follow up or draft enforcement for dischargers not participating in MERP .	Completed	Earlier in the program the point and non-point dischargers provided letters of financial and in-kind services commitments for the program. We sent letters to the participants with directions on how to provide the funding. Developed and finalized MOU with Aquatic Science Center to receive discharger funds. Worked with dischargers on funding questions and concerns.	6/30/14	6/1/14
5	Delta Mercury TMDL Implementation	MERP- Workplan		Completed MERP workplan	Convene Work Plan workgroup meetings. Distribute information to other dischargers and respond to comments. Finalize work plan for EO approval.	Completed	Executive Officer approved the work plan in October 2013.	12/31/13	10/1/13

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
5	Delta Mercury TMDL Implementation	Phase 1- 401 Certs	Phase 1- 401 Certs	Draft 401 WQ Cert requirements	Review and write requirements for estimated 4-8 401 Certifications for restoration projects in the Delta.	Completed	Mercury staff worked with 401 WQ certification staff for restoration projects in the Delta.	5/31/14	6/1/14
5	Delta Mercury TMDL Implementation	Phase 1- Annual Board Report		Board Presentation	Prepare annual report to the Board on Delta mercury implementation activities. Includes public notices, agenda preparation and presentation.	Completed	2nd annual Board update completed Dec 5, 2013	11/30/13	12/1/13
5	Delta Mercury TMDL Implementation	Phase 1- Mercury Reduction Projects	Phase 1- Mercury Reduction Projects	Coordination of source reduction efforts	Staff has participated in and provided presentations and TMDL updates at DTMC and other agency and stakeholder meetings that focus on mercury reduction projects.	Completed		5/31/14	6/1/14
5	Delta Mercury TMDL Implementation	Phase 1- NPS workplan and TAC	Phase 1- NPS workplan and TAC	Workplan for Contract	Work with contractor and NPS stakeholders to develop work plan for management practice contract and oversee work. Manage contract. Collect samples as needed. Coordinate discharger studies with TAC reviewers. Convene TAC in fall to review individual discharger Phase 1 studies and on the spring to review the coordinated studies.	Completed	Staff has reviewed TAC comments with the individual study planners and the EO has issued approval letters for most of the workplans. Staff continues to work with the NPS stakeholders with their studies.	2/28/14	3/1/14
5	Delta Mercury TMDL Implementation	Phase 1- Permit Compliance	Phase 1- Permit Compliance	Ensure Permit Compliance	Track incoming NPDES, stormwater, and 401 cert data.	Completed	Tracked incoming NPDES, stormwater, and 401 cert data.	6/30/14	6/1/14
5	Delta Mercury TMDL Implementation	Phase 1- Permit Coordination	Phase 1- Permit Coordination	Develop and Implement TMDL Transfer Plan	Continue to develop and implement transfer plans for TMDL implementation, to include requirements for: wastewater treatment plants, municipal stormwater, irrigated lands program, wetlands, water management activities, and dredging. Coordinate with all Regional Board programs to ensure TMDL/Basin Plan requirements are incorporated into NPDES permits, dredging permits, and water quality certifications. Review and comment on projects that may affect mercury levels and monitoring results.	Completed	TMDL staff worked with permitting staff to ensure TMDL allocations and implementation plan requirements are included in permits. Work includes reviewing permit language and associated reports and fact sheets for multiple NPDES facility permits and large MS4s.	6/30/14	6/1/14
5	Delta Mercury TMDL Implementation	Phase 1- Study Plan implementation	Phase 1- Study Plan implementation	Coordination of point and non-point source mercury studies	Continue to work with Methylmercury NPS Workgroup and other study workgroups as they implement their study workplans. Manage 1-2 319(h) contracts for NPS workgroup, if awarded. Includes meeting with stakeholders and providing technical guidance for methylmercury studies, initiating studies, and researching and applying funding opportunities, such as CAA and SEP.	Completed	Staff has had numerous meetings with individual dischargers and discharger groups to review their study concept proposals and workplans, and provide technical guidance for the methylmercury studies and coordinated study approaches.	5/31/14	5/1/14
5	Diazinon and Chlorpyrifos TMDL Implementation	EPA and DPR Coordination	Coordination with EPA and DPR on pesticide use registration and regulations for diazinon and chlorpyrifos and potential replacement products.	Formal and Informal Correspondence with EPA and DPR	Comment letters on EPA's registration review and DPR's reevaluation for chlorpyrifos and diazinon and potential replacement products.	Completed	Submitted registration review letters on several pesticides. Coordinated with DPR on pesticide monitoring. Coordinated with DPR and CASA on WWTP pyrethroids.	6/30/14	6/1/14
5	Diazinon and Chlorpyrifos TMDL Implementation	Implementation Coordination 13/14		Implementation reports, reviews, comments, implementation logs, guidance documents	Support for ILRP and NPDES implementing the TMDL. Reviews, comments on submittals and WDRs, written transfer plan guidance for implementing programs.	Completed		6/30/14	6/1/14

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
5	Diazinon and Chlorpyrifos TMDL Implementation	Replacement Products Evaluation		relative risk evaluation staff report, including a list of priority replacement pesticides	Scientific assessment of relative risks of potential diazinon and chlorpyrifos replacement products, including: evaluation of pesticide use data for high diazinon and chlorpyrifos use sites and pests; evaluation of chemical, physical toxicological properties, modeling outcomes, monitoring programs and data; identification of potential replacement products and monitoring needs.	Cancelled	Task cancelled due to resource limitations and redundancy with work being done by agricultural coalitions. Resources were directed towards work on other pesticides.	6/30/14	
5	Mercury TMDLs Implementation	Mercury reduction activities in Clear Lake	Clear Lake	Coordination and oversight of mercury reduction activities in Clear Lake	Clear Lake: Coordinate internally and with state, federal, and local agencies on cleanup plans for inactive mines. Review erosion control management plans and mine remediation plans. Coordinate with county, land managers, Caltrans, and stakeholders for implementation activities related to mercury sources.	Completed	Staff worked with mine cleanup unit staff to provide technical assistance for reducing mercury sources in the watershed, including activities related to mercury mine cleanup projects at the superfund mine site.	6/30/14	6/1/14
5	Mercury TMDLs Implementation	Mercury reduction in Cache Creek watershed	Cache Creek	Coordination of TMDL implementation activities	Cache Creek watershed: Coordinate internally and with state and federal agencies on cleanup orders and remediation plans for inactive mines and the watershed. Review erosion control management plans and mine remediation plans. Coordinate with land managers, Caltrans, and stakeholders for implementation activities related to remediation projects in the upper and lower watersheds.	Completed	Staff has been working with mine-cleanup staff in the review of mine cleanup orders and other information for the areas downstream of the Abbott and Turkey Run mines. Included coordination of TMDL requirements and review of a remedial investigation workplan for Davis Creek and Cache Creek mercury-contaminated sediments, and review of DWR activities in the settling basin.	6/30/14	6/1/14
5	San Joaquin River Dissolved Oxygen	DO Synthesis Report		Progress Report	Support Department of Fish and Wildlife grant in preparing a comprehensive synthesis report on dissolved oxygen in the Stockton Channel.	Completed	DFW did not fund this effort; however, this information is included in staff's evaluation of the Stockton DWSC DO trends in the recommendation report and the potential DO impacts on fish for the scientific basis of the Water Rights' Bay Delta planning effort.	6/30/14	6/1/14
5	San Joaquin River Dissolved Oxygen	Implementation Tracking - Channel Conditions and Aerator Operation		Progress Report	Coordinate with the Port of Stockton on calendar year 2013 aerator operations. Monitor DO and other water quality conditions in the channel. Provide updates to management on any changes to funding agreement and Port's WDR.	Completed	Completed regular tracking of DO conditions and potential need for aeration. Provided in-depth EO item on DO conditions in the Stockton DWSC in October 2013.	6/30/14	6/1/14
5	San Joaquin River Dissolved Oxygen	Project Management		Project Management Progress Report	Staff will implement project management tools for streamlining project scope and schedule (on-going). Includes coordination with State Board staff.	Completed	Charter and other project management tools developed and employed for this project.	6/30/14	6/1/14
5	San Joaquin River Dissolved Oxygen	Recommendations Report		Progress Report	Develop a Recommendations Report based on outcome of Phase I studies and comprehensive synthesis report.	Completed	Internal recommendations report developed to inform Water Board management and in preparation of the Board information item.	6/30/14	6/1/14
5	San Joaquin River Dissolved Oxygen	Reevaluate Water Quality Objective		Progress Report	Support State Board efforts to reevaluate the fall 6.0 mg/L water quality objective. Coordinate with fisheries agencies and State Board on potential actions.	Completed	Worked closely with State Board water rights staff to develop scientific basis information to evaluate the fall DO objective for the Stockton DWSC.	6/30/14	6/1/14

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RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
5	San Joaquin River Dissolved Oxygen	Stakeholder Outreach		Summary of Outreach	Outreach with internal and external stakeholders. Communications may include meetings, phone calls and emails.	Completed	Developed tri-fold, stakeholder fact sheet and State Board fact sheet for this project. Communicated with Port of Stockton and other stakeholders regarding the aeration facility and State Board water rights staff and fisheries agencies regarding the fall DO objective.	6/30/14	6/1/14
5	San Joaquin River Dissolved Oxygen	WARMF and Link-Node Model Peer Review		Progress Report	Support Department of Fish and Wildlife grant to complete an external peer review of the models (WARMF & Link-Node) developed for the TMDL.	Completed	External peer reviewers expressed significant concerns regarding the use of the models for reallocation of loads.	12/31/13	12/1/13
6	Blackwood Creek Sediment	Implementation Analysis		Progress Report		Delayed	Draft in review, April 2014	2/28/14	4/1/14
6	Heavenly Valley Creek (source to USFS boundary) Sediment	Implementation Analysis		Progress Report		Not Started		3/31/14	
6	Indian Creek Reservoir Phosphorus	Implementation Analysis		Progress Report		Completed		3/31/14	2/1/14
6	Lake Tahoe Nutrients/Sediment	Pollutant Load Reduction Plans (PLRPs)		Resolution to our Board accepting PLRPs		Completed		10/31/13	6/1/13
6	Lake Tahoe Nutrients/Sediment	Tahoe TMDL implementation oversight		oversight & progress reporting		In Progress		6/30/14	
6	Lake Tahoe Nutrients/Sediment	final handbook - Management System		estimate non-urban loads		Completed		9/30/13	9/1/13
6	Lake Tahoe Nutrients/Sediment	review elements for Management System		approve memo for elements		Completed		9/30/13	9/1/13
6	Lake Tahoe Nutrients/Sediment	stakeholder review - Management System		conduct stakeholder review of non-urban protocols		Completed		9/30/13	9/1/13
6	Squaw Creek Sediment	Implementation Analysis		Progress Report		Cancelled	Will analyze on a biannual schedule. Not enough info on an annual basis to make annual updates worthwhile.	4/30/14	
6	Truckee River Sediment	Implementation Analysis		Progress Report		Not Started		5/31/14	
7	Alamo River Sediment TMDL Implementation	Assess implementation activities for FY 2012-2013		Implementation progress report		Not Started		8/31/13	
7	Alamo River Sediment TMDL Implementation	Attend ICFB TMDL Workshops		Attend ICFB TMDL Workshops		Not Started		6/30/14	
7	Alamo River Sediment TMDL Implementation	Monitor Alamo River for sediment		Monthly monitoring required by the TMDL		Not Started		6/30/14	
7	Alamo River Sediment TMDL Implementation	Track implementation activities by responsible parties		Track implementation activities by responsible parties		Not Started		5/31/14	
7	Alamo River Sedimentation/Siltation TMDL	Assess implementation activities for FY 2012-2013		Progress report		Completed		8/31/13	9/1/13
7	Alamo River Sedimentation/Siltation TMDL	Attend ICFB TMDL workshops		Attend ICFB TMDL workshops		Completed		6/30/14	6/1/14
7	Alamo River Sedimentation/Siltation TMDL	Monitor, track, and assess TMDL implementation		Monitor, track, and assess TMDL implementation		Not Started		3/31/14	
7	Alamo River Sedimentation/Siltation TMDL	Track implementation activities by responsible parties		Progress Report		Completed		12/31/13	12/1/13
7	Alamo River Sedimentation/Siltation TMDL	Write an implementation progress report		Implementation progress report		Not Started		5/31/14	
7	Coachella Valley Storm Water Channel Pathogen TMDL	Assess implementation activities for FY 2012-2013		Implementation progress report		Completed		8/31/13	8/1/13
7	Coachella Valley Storm Water Channel Pathogen TMDL	Track implementation actions by responsible parties		Tracking data report		Completed		5/31/14	5/1/14
7	Imperial Valley Drains (Niland 2, P, Pumice, and their tributary drains) Sediment TMDL	Assess implementation activities for FY 2012-2013		Implementation progress report		Completed		8/31/13	9/1/13

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
7	Imperial Valley Drains (Niland 2, P, Pumice, and their tributary drains) Sediment TMDL	Attend ICFB TMDL workshops		Attend ICFB TMDL workshops		Completed		6/30/14	6/1/14
7	Imperial Valley Drains (Niland 2, P, Pumice, and their tributary drains) Sediment TMDL	Track implementation actions by responsible parties		Tracking data report		Completed		5/31/14	5/1/14
7	New River Dissolved Oxygen TMDL	Assess implementation activities for FY 12-13		Progress Report		Completed		8/31/13	8/1/13
7	New River Dissolved Oxygen TMDL	Track implementation actions by responsible parties		Tracking data report		Completed		5/31/14	5/1/14
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	Assess implementation activities for FY 2012-2013		Implementation progress report		Not Started		8/31/13	
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	Monitor New River for DO, Pathogens, Sedime. & Trash. & track implementation actions		Monitoring & tracking data		Not Started		6/30/14	
7	New River Pathogen TMDL	Assess implementation activities for FY 2012-2013		Progress Report		Completed		8/31/13	9/1/13
7	New River Pathogen TMDL	Track implementation activities by responsible parties		Tracking data report		Completed		5/31/14	5/1/14
7	New River Sedimentation/Siltation	Assess implementation activities for FY 2012-2013		Progress Report		Completed		8/31/13	9/1/13
7	New River Sedimentation/Siltation	Attend ICFB TMDL workshops		Attend ICFB TMDL workshops		Completed		6/30/14	6/1/14
7	New River Sedimentation/Siltation	Outreach	Attend ICFB TMDL workshops	Meetings/Educational Materials	Attend ICFB TMDL workshops	Not Started		6/30/14	
7	New River Sedimentation/Siltation	Track implementation activities by responsible parties		Tracking data report		Completed		5/31/14	5/1/14
7	New River Trash TMDL	Assess implementation activities for FY 2012-2013		Progress Report		Completed		8/31/13	8/1/13
7	New River Trash TMDL	Track implementation actions by responsible parties		Tracking data report		Completed		5/31/14	5/1/14
8	Big Bear Lake Nutrient TMDL - FY 13-14 and 14-15	Conduct Implementation (TMDL Task 1 - New WDRs)	Develop WDRs for issuance to the USFS.	USFS WDRs	Process to establish new WDRs for USFS initiated FY 13-14 and will be completed FY 14-15. Process includes development of CEQA document, development of draft WDRs, meetings with USFS and stakeholders and conduct of public workshop/hearing.	Completed	On going. Will be addressed in FY 14-15.	6/30/14	6/1/14
8	Big Bear Lake Nutrient TMDL - FY 13-14 and 14-15	Conduct Implementation (TMDL Task 4 - Monitoring		Monitoring Program Oversight	Annual Monitoring report due 2/14. RB staff to review and provide comments if appropriate.	Completed		4/30/14	6/1/14
8	Big Bear Lake Nutrient TMDL - FY 13-14 and 14-15	Conduct Implementation (TMDL Task 4 Monit.)		Monitoring Program Oversight	annual monit report due 2/13. RB staff to review and provide comments if appropriate.	Completed		4/30/14	6/1/14
8	Big Bear Lake Nutrient TMDL - FY 13-14 and 14-15	Linkage Analysis		Wet Weather Linkage Analysis	Contingent on obtaining federal funds to conduct model analysis.	Not Started		12/31/13	
8	Knickerbocker Cr., Bacteria TMDL	Oversee MS4 Permit Action Activities		Review and approve MS4 actions	The City of BBL is required to investigate and address Knickerbocker Creek exceedances per the MS4 permit. Some initial studies have been completed but additional studies need to be accomplished to identify specific BMPs to address wildlife bacti inputs.	Not Started		4/30/14	
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Ag Nutrient Management Plan (Ag NMP) Approval		Regional Board approval of Ag Nutrient Management Plan (Ag NMP)		Delayed	Awaiting finalization of Regional Board staff's Conditional Waiver for Ag Discharges (CWAD). Anticipate RB approval by Dec 2014.	9/30/13	
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Ag Nutrient Management Plan (Ag NMP) Oversight		Oversight/Tracking of Ag Nutrient Management Plan (Ag NMP). Review Annual Report		Delayed	Awaiting CWAD finalization to approve AG NMP.	3/31/14	

Status of FY 13-14 TMDL Implementation Tasks

RB	Project Name	Task Name	Task Desc	Deliverable Name	Deliverable Desc	Status	Task Status Comment	Plan End Date	Actual End Date
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Compliance Monitoring (TMDL Task 4)		Annual Report Review		Completed		1/31/14	3/1/14
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Comprehensive Nutrient Reduction Plan (CNRP) Oversight		Oversight/Tracking of CNRP Implementation. Review Annual Report		Completed		2/28/14	3/1/14
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Conduct Implementation		Develop WDRs for Ag Operators	Continue to assist NPS staff in development of Ag Waiver.	Delayed	NPS staff continues to work on CWAD as resources allow.	12/31/13	
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Stakeholder Outreach		Agenda, meeting notes, etc		Completed		6/30/14	6/1/14
8	Newport Bay Watershed Diazinon/Chlorpyrifos	Compliance Monitoring		Water Quality Data Review		Completed		1/31/14	2/1/14
8	Newport Bay Watershed Diazinon/Chlorpyrifos	Standards Attained	TMDL Delisting Report	Water Quality Summary Report	Delisting Recommendation Report	Completed		6/30/14	3/1/14
8	Newport Bay Watershed Fecal Coliform	Conduct Implementation	Evaluation of monitoring data and compliance reports to access TMDL/implementation plan compliance.	Review of TMDL and Implementation Plan	Recommendations to TMDL and IP, taking into consideration BEACH ACT standards.	Completed		6/30/14	3/1/14
8	Newport Bay Watershed Nutrient	Compliance Monitoring	Review and analysis of dischargers' compliance reports.	Compliance Report	RB staff oral and written responses.	Completed		6/30/14	2/1/14
8	Newport Bay Watershed Nutrient TMDL	Compliance Review	Staff oversight of dischargers compliance with TMDL implementation.	Staff Responses	Document response to compliance issues, which may include meetings, phone calls and letters.	Completed		6/30/14	6/1/14
8	Newport Bay Watershed Nutrient TMDL	Revision of TMDL	The TMDL (targets and allocations) and implementation plan is being reviewed for possible revision.	Technical Staff Report	A staff report will be drafted for public review and comment.	Completed		6/30/14	6/1/14
8	Newport Bay Watershed Organochlorine Compounds TMDL	Implementation Tasks	Newport Bay dischargers are implementing the TMDL tasks. Staff review and coordination are required.	Implementation Coordination	Staff oversight of compliance activities and monitoring.	Completed		6/30/14	6/1/14
8	Newport Bay Watershed Rhine Channel TMDLs	Implementation Analysis	Post-Dredge Evaluation of channel.	Review and Analysis		Completed		6/30/14	6/1/14
8	Newport Bay Watershed Sediment TMDL	Implementation Analysis	Consider revisions to TMDLs and listings. Consider data and recommendations.	TMDL Revision Report	Recommendations to revise implementation plan.	Completed		6/30/14	3/1/14
8	Newport Bay Watershed Sediment TMDL	TMDL Compliance Oversight	Review and comment on compliance and monitoring reports. Consider requests for revised monitoring.	Compliance/Monitoring Report	Revised monitoring program.	Completed		6/30/14	2/1/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Ag Dry Season Bacterial Reduction Plan Approval		Regional Board approval of Ag Dry Season Bacterial Reduction Plan		Not Started	In progress. Awaiting list from Ag stakeholder group and resources for mail out and follow-up.	6/30/14	
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Compliance Monitoring (TMDL Task 3)		Dry/Wet Seasonal Reports and Annual Report review		Completed		6/30/14	6/1/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Conduct Implementation (TMDL Task 1)	TMDL staff to provide assistance to permitting staff on any revisions to relevant permits. Known permits to be updated include the CAFO permit and potentially Cal Poly Pomona (as part of small MS4?).	Review/revise WDRs (as appropriate)		Completed		6/30/14	6/1/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Oversight of Comprehensive Bacterial Reduction Plan (CBRP)	Oversight of FY 13-14 MS4 permit activities aimed at reducing or eliminating dry weather flows through field surveys to ID and mitigate dry weather flows and through adoption of water conservation ordinances. Oversight of Permittee implemented transient camp & septic systems controls programs.	Provide Oversight		Completed		6/30/14	6/1/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Stakeholder Outreach		Agenda, meeting notes, etc		Completed		6/30/14	6/1/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	TMDL Task 2 - Ag Operators		Issue 13267 Orders		Not Started	In progress. Awaiting list from Ag stakeholder group and resources for mail out and follow-up.	6/30/14	
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Task 2 Ag Operators		Issue 13267 Orders		Not Started	In progress. Awaiting list from Ag stakeholder group and resources for mail out and follow-up.	2/28/14	

Appendix 2

Workplan Overdue, Delayed and Cancelled Task Status Report

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
1	2012 Integrated Report Update	Regional Board Hearing		(1) Resolution, (2) Presentation, (3) EOSR, and (4) Adopted Documents		Additional time needed to respond to public comments resulted in postponement of Bd Hearing to August (RMF 7/2014).	Overdue	3/1/14	3/1/14	6/30/14
1	Eel, Mattole, & Navarro Temperature TMDL Action Plans	Administrative Record to State Board		(1) Administrative Record		Staff redirected to higher priority work. Admin record to be submitted by 09/2014. (RMF 06/12/2014)	Delayed	11/1/13	11/1/13	4/30/14
1	Elk River Sediment	Response to Public Comments		(1) Response to Public Comments			Not Started	3/1/15		5/31/14
1	Elk River Sediment	Single Action Resolution, Permit, & Staff Rpt. - Public Review Draft		Public Review Draft of (1) Resolution, (2) Watershed-wide WDRs, (3) Staff Rpt. w/ TMDL		Change in approach due to stakeholder comments and Board input (RMF 7/7/2014).	Delayed	5/1/14		6/30/14
1	Elk River Sediment	Single Action Resolution, Permit, & Staff Rpt. - Staff Draft for Internal Review		Staff Draft for Internal Review of (1) Resolution, (2) Watershed-wide WDRs, (3) Staff Rpt. w/ TMDL		Change in approach due to stakeholder comments and Board input (RMF 7/7/2014).	Delayed	7/1/13	7/1/13	4/30/14
1	Freshwater Creek Sediment	Implementation Plan - Development		(1) An early draft of the Staff Report and Basin Plan Amendment language		Staff redirected to Elk River Sediment TMDL.	Delayed	11/1/13		6/30/14
1	Freshwater Creek Sediment	Introduction Chapter - Development		(1) An early Staff Draft of the Introduction		Staff redirected to Elk River Sediment TMDL.	Delayed	11/1/13		6/30/14
1	Freshwater Creek Sediment	Problem Statement - Development		(1) An early Staff Draft of the Problem Statement		Staff redirected to Elk River Sediment TMDL.	Delayed	11/1/13		6/30/14
1	Freshwater Creek Sediment	Source Analysis - Development		(1) An early Staff Draft of the Sediment Source Analysis		Staff redirected to Elk River Sediment TMDL.	Delayed	11/1/13		6/30/14
1	Garcia River Sediment	Garcia River Monitoring Report		(1) Garcia River Monitoring Report		Contractor delay in analyzing data. Report expected by 12/2014.	Delayed	1/1/14	1/1/14	6/30/14
1	Klamath River Nutrients, Temperature, DO, and Microcystin	Identification of Next River for Watershed Stewardship	Includes coordination with and identification of local lead partners.	(1) Selection of Next Watershed, (2) Correspondences, and (3) Meeting Notes		Decision-making process through multiple stakeholders is taking longer than expected (RMF 7/7/2014).	Delayed	9/1/13	1/1/14	2/28/14
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Mainstem Benthic Sediments Monitoring Report		(1) Monitoring Report		Staff redirected to higher priority task. Draft report complete and waiting internal review (RMF 7/7/2014).	Delayed	7/1/13	7/1/13	10/31/13
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Nutrient & DO Allocations - Discharge Volume Assessment		(1) Discharge Volume Assessment for Watershed Sources		Direction change due to opportunity for Tetra-Tech contract support (RMF 7/7/2014).	Delayed	10/1/13	8/1/13	6/30/14
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Regional Board Update - Fall		(1) Summary Report		Staff redirected to higher priority tasks (RMF 12/31/2013).	Delayed	8/1/13	10/1/13	12/31/13
1	Laguna de Santa Rosa Nutrients, DO, Temperature, & Sediment - with OWTS	Regional Board Update - Spring		(1) Summary Report		Postponed to November Board Meeting (RMF 7/7/2014).	Overdue	1/1/14	6/1/14	6/30/14
1	Shasta River DO & Temperature	Watershed Stewardship Monitoring Plan		(1) Watershed Stewardship Monitoring Plan	This is a subset of the Watershed Stewardship Report.	Review draft is complete and multi-agency review is underway. (RMF 4/1/2013)	Overdue	7/1/13	7/1/13	10/31/13
1	Shasta River DO & Temperature	Watershed Stewardship Report		(1) Watershed Stewardship Report	Web-based report that includes estimates of progress towards TMDL targets, current conditions, and WQ priorities.	Review draft is complete and multi-agency review is underway. Delay due to need for additional time to compile, review, and QA historical data. (RMF 11/5/2013)	Overdue	7/1/13	7/1/13	10/31/13
1	Temperature Implementation Policy	Administrative Record to State Board		(1) Administrative Record		Staff redirected to higher priority work. Admin record to be submitted by 09/2014. (RMF 06/12/2014)	Delayed	11/1/13	11/1/13	4/30/14
2	Pacific Ocean at Muir Beach - Indicator Bacteria (OWTS)	Develop Project Plan		Final Project Plan			Not Started	7/1/13		1/31/14
2	Pacific Ocean at Muir Beach - Indicator Bacteria (OWTS)	Project Report		Draft staff report			Not Started	10/1/13		6/30/14

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
2	Petaluma River Pathogens, Nutrients, & Sediments	Data Collection and Analysis		Contract Progress Report	Task is contingent on receiving contract funding for FY 2013-14	This task was not funded because contract monies were not available for the monitoring necessary to complete it.	Not Started	10/1/13		6/30/14
2	San Francisco Bay Selenium - North Bay	Prepare Final Project Report		Revise draft project report		Updated numeric targets section w/data since 2011. Worked with Tetra Tech to get analyses enabling revision of sources & loadings section (revision should be done by 7/14). In discussions w/US EPA re: acceptable targets or WQO(s) to use for N. Bay Se, including degree to which EPA-preferred models reflect real-world dynamics at low conc.. of Se--resolution needed to allow revision of linkage analysis and completion of project report. Report completion planned for FY2014-15.	Delayed	12/1/13		6/30/14
2	San Gregorio Creek	Define Project		Project Definition		Delay due to contracting issues.	Delayed	7/1/13	4/1/13	6/30/14
2	Statewide Reservoir Mercury TMDL	Draft and revise technical report		Revised draft technical report	Goal of peer review in late winter 2013-14 or Spring 2014	Loss of key staff (to CDFW, reassignment to other work (at RB5), and temporary family illness). 6 chapters completed by March 2014; completion of full draft expected early FY 2014-15.	Delayed	7/1/13	7/1/13	6/30/14
2	Stevens Creek - Toxicity	Develop Project Plan		Project Plan		Short term delay - identifying data needs and whether SWAMP or others can collect data.	Delayed	12/1/13	2/1/14	6/30/14
2	Suisun Marsh Metals, Nutrients, & Salinity	Develop CEQA Document		SED (substitute environmental documentation)		Staff redirected to N. Bay Se TMDL from 2013-15. Projected completion date for SED (as of Apr. 2014): likely FY 2015-16.	Delayed	9/1/13		2/28/14
2	Suisun Marsh Metals, Nutrients, & Salinity	Develop Regulatory Recommendation		Draft Basin Plan Amendment		Staff redirected to work on N. SF Bay Se TMDL from 2013-15. Likely date for completion of this Suisun Marsh task (as of Apr. 2014): FY 2015-16.	Delayed	5/1/14		6/30/14
2	Suisun Marsh Metals, Nutrients, & Salinity	Peer Review		Document(s) sent to Peer Reviewers		Staff redirected to N. SF Bay Se TMDL for 2013-15. Likely completion of this Suisun Marsh task (as of Apr. 2014): FY 2015-16.	Delayed	5/1/14		6/30/14
2	Suisun Marsh Metals, Nutrients, & Salinity	Prepare Final Project Report		Draft Report		Staff shifted to focus on N. SF Bay Se TMDL from 2013-2015. Projected completion of the Suisun Marsh project report (as of Apr. 2014): FY 2015-16.	Delayed	7/1/13		4/30/14
3	Arroyo de la Cruz, Cholame Creek, San Antonio River, San Lorenzo Creek, and Tularcitos Creek Bacteria TMDLs	Implementation Analysis		Progress Report			Not Started	7/1/13		3/31/14
3	Carpenteria Marsh Nutrient TMDL	Data Collection and Analysis		Data Analysis	Data analysis and project definition		Not Started	7/1/13		8/31/13
3	Carpenteria Marsh Nutrient TMDL	Project Analyses		Draft TMDL Report	Draft report and stakeholder outreach/CEQA scoping		Not Started	8/1/13		9/30/13
3	Carpenteria Marsh Nutrient TMDL	Project Analyses		Final Preliminary Project Report			Not Started	9/1/13		10/31/13
3	Glen Annie Creek Toxicity TMDL	Project Analyses		Draft TMDL Report			Not Started	4/1/13		6/30/14
3	Morro Bay Pathogens	Finish Implementation		Finish Implementation			Not Started	7/1/13		6/30/14
3	Pajaro River Fecal Coliform (including San Benito R., Llagas Cr., and Tequesquita Slough)	Investigate TMDL Implementation Progress		Progress Report	Investigate and report on implementation activities conducted since TMDL adoption		Not Started	10/1/13		11/30/13

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
3	Pajaro River Siltation/Sedimentation (including San Benito R., Llagas Cr., Rider Gulch Cr.)	Investigate TMDL Implementation Progress		Progress Report	Investigate and report on implementation activities conducted since TMDL adoption		Not Started	7/1/13		9/30/13
3	Pajaro River Watershed Nutrient TMDL	Present Regulatory Action to Regional Board for Action	Pete	Regional Board Action			Not Started	5/1/14		5/31/14
3	Pajaro River Watershed Nutrient TMDL	Submit Administrative Record		Administrative Record			Not Started	6/1/14		6/30/14
3	Program and Project Management	GIS Analysis		GIS	Provide GIS support for TMDL development and implementation activities		Not Started	7/1/13		7/31/13
3	Salinas River Watershed Sediment Toxicity TMDL	Conduct Early Implementation	Conduct early implementation by storm water staff and grant management.	Meetings/Educational Materials			Not Started	7/1/13		6/30/14
3	Salinas River Watershed Sediment Toxicity TMDL	Project Analyses		Draft TMDL Report	Report, stakeholder outreach, and CEQA scoping		Not Started	4/1/14		5/31/14
3	Salinas River Watershed Sediment Toxicity TMDL	Project Analyses		Final Preliminary Project Report			Not Started	6/1/14		6/30/14
3	Santa Maria River Watershed Fecal Indicator Bacteria TMDL	Develop CEQA Document		SED (substitute environmental documentation)	Salts TMDLs: Includes CEQA scoping meeting.		Not Started	7/1/13		8/31/13
3	Santa Maria River Watershed Fecal Indicator Bacteria TMDL	Peer Review		Response to Peer Review Comments	Salts TMDLs: submit for scientific rev in Sept.		Not Started	4/1/14		4/30/14
3	Santa Maria River Watershed Fecal Indicator Bacteria TMDL	Prepare Final Project Report		Final Project Report	Salts TMDL. Includes all BPA docs ready for RB action.		Not Started	4/1/14		6/30/14
3	Santa Maria River Watershed Nitrogen Compounds and Orthophosphate TMDL	Define Project		Project Definition			Not Started	9/12/13		9/12/13
3	Santa Maria River Watershed Salts TMDL	Define Project		Project Definition			Not Started	9/12/13		9/12/13
3	Santa Maria River Watershed Salts TMDL	Project Analyses		Final Preliminary Project Report	Report ready for scientific review		Not Started	11/1/13		2/28/14
3	Santa Maria River Watershed Toxicity and Pesticides TMDL	Define Project		Project Definition			Not Started	9/12/13		9/12/13
4	Malibu Creek Nutrients (50)	Allocations		Allocations development			Not Started	3/1/14		6/30/14
4	San Gabriel River Coliform (45)	Collect and Analyze Data	Compile updated meteorological data and flow data, including headwater, in-stream, POTW, and storm drain flows, previously compiled by Titrates for development of the 2005 dry- and wet-weather models to support the San Gabriel River Metals TMDL. The updated meteorological and flow data will be used to support the upcoming San Gabriel River Bacteria TMDL. The new data are needed for the TMDL source assessment and	Model			Not Started	7/1/13		6/30/14

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
4	San Gabriel River Metals (39)	OAL approval		OAL approval Imp Plan		Regional Board completed additional modeling	Not Started	10/1/13		1/31/14
5	2012 303d list update	Integrated report preparation and release for public review	Integrated report preparation and release for public review	Draft Integrated Report	Prepare draft integrated report for public review (ability to complete this task is contingent on State Board developing LOEs by November 2013 in accordance with latest schedule)	Changes in Integrated Report process will make this task unattainable in this fiscal year. Resources for this task to be shifted to other tasks.	Delayed	12/1/13		4/30/14
5	2012 303d list update	Prepare Agenda	Prepare Agenda	Draft Agenda Package	Begin preparing agenda package (ability to complete this task is contingent on State Board developing LOEs by November 2013 in accordance with latest schedule)	Changes in Integrated Report process will make this task unattainable in this fiscal year. Resources for this task to be shifted to other tasks.	Delayed	4/1/14		6/30/14
5	2012 303d list update	Respond to Public Comments	Respond to Public Comments	Draft Response to Comments	Begin preparing response to comments (ability to complete this task is contingent on State Board developing LOEs by November 2013 in accordance with latest schedule)	Changes in Integrated Report process will make this task unattainable in this fiscal year. Resources for this task to be shifted to other tasks.	Delayed	5/1/14		6/30/14
5	Central Valley Organochlorine Pesticides	Organochlorine Strategy Report		Organochlorine Strategy Staff Report	Public document outlining our strategy for addressing organochlorine impairments, documenting existing erosion control requirements such as ILRP that will reduce loading of OC loading, documenting why we are not prioritizing developing TMDLs for OCs at this time, and outlining future monitoring for potential delistings.	Preliminary draft is 75% complete and will be done in July. Report completion was delayed due to an unplanned need to generate benchmarks for multiple OCs as well as a general workload underestimation for this project in the workplan.	Overdue	7/1/13	7/1/13	2/28/14
5	Central Valley Rivers Mercury TMDL	Define Project		Project Definition			Not Started	3/6/14		3/6/14
5	Phase 2 (Pyrethroids)Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Draft Staff Report	Collate all of the draft chapters into a cohesive staff report, finalize any chapters that need updating.	Draft staff report for internal review		Pyrethroid work delayed due to extra technical and stakeholder work needed on pyrethroids in wastewater.	Overdue	3/1/14	3/1/14	4/30/14
5	Phase 2 (Pyrethroids)Sacramento and San Joaquin Pesticides Basin Plan Amendment and TMDLs	Management Review of Draft Staff Report	Send the draft staff report to management and legal reviewers. Respond to their comments and make changes to the report as needed.	Draft staff report that is ready for peer review		Pyrethroid work delayed due to extra technical and stakeholder work needed on pyrethroids in wastewater.	Overdue	3/1/14	3/1/14	6/30/14
5	Statewide Mercury Reservoir TMDL Project	Develop CEQA Document	CEQA Evaluation	Checklist and Analysis	CEQA Evaluation: Prepare draft California Environmental Quality Act evaluation (checklist, RFMC, supporting documentation) in coordination with the State Board staff working on the Statewide Mercury Fish Tissue Objective to avoid redundancy. Includes detailed evaluation of RFMC and related environ. impacts due to non-source control management practices.	This work was not started- we will work on this when the main technical report goes to peer review.	Delayed	7/1/13		6/30/14

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
5	Statewide Mercury Reservoir TMDL Project	Economic Evaluation	Economic Evaluation	Draft Economic Evaluation	Economic Evaluation: Prepare draft economic evaluation in coordination with the State Board staff working on the Statewide Mercury Fish Tissue Objective to avoid redundancy. Includes detailed evaluation of costs related to non-source control management practices.	This work was not started- we will work on this when the main technical report goes to peer review.	Delayed	7/1/13		6/30/14
5	Statewide Mercury Reservoir TMDL Project	Peer Review Responses	Response to Scientific Peer Review	Response to Peer Review Comments	Response to Scientific Peer Review: Prepare written responses to scientific peer review for the administrative record. Coordinate response review with TMDL staff at other Water Boards as needed.	Document is not ready for peer review. The Plan amendment needs review/concurrence by Sponsors, SB Exec mgmt. and Board member briefings before this document goes to peer review.	Delayed	7/1/13		6/30/14
5	Statewide Mercury Reservoir TMDL Project	Peer Review Submission	Peer Review	Document(s) sent to Peer Reviewers	Peer Review: Coordinate scientific peer review committee, prepare submittal package, and respond to peer reviewer questions during their review period.	Document is not ready for peer review. The Plan amendment needs review/concurrence by Sponsors, SB Exec mgmt. and Board member briefings before this document goes to peer review.	Delayed	7/1/13		6/30/14
5	Statewide Mercury Reservoir TMDL Project	Revised Draft Project Report after Peer Review	Revise Draft Technical Report	Revised Draft Report	Revise Draft Technical Report: Revise technical report as necessary based on comments from the scientific peer reviewers. Coordinate review of report revisions with TMDL staff at other Water Boards as needed, and with technical editor.	Document is not ready for peer review. The Plan amendment needs review/concurrence by Sponsors, SB Exec mgmt. and Board member briefings before this document goes to peer review.	Delayed	7/1/13		6/30/14
6	12/13 303(d) list work (Integrated Report)	IR - internal review of recommendations		Recommendations to R6 Board		Staff will present to R6 Board in June. IR currently out for public review 4/14	Overdue	7/1/13	11/1/13	9/30/13
6	12/13 Management	Work planning		FY 14-15 work plan			Not Started	3/1/14		6/30/14
6	Cold Creek - nitrogen	compile information		Project Plan		Being addressed by USFS restoration project. See notes in past Integrated Report	Not Started	7/1/13		9/30/13
6	Eagle Lake nitrogen & phosphorus	Data for problem hypothesis		Data Analysis Report			Not Started	7/1/13		2/28/14
6	Eagle Lake nitrogen & phosphorus	Develop project plan		Project plan report		Changed to	Not Started	9/1/13		12/31/13
6	General Creek - phosphorus	compile information		Project Plan		Will be addressed as new data becomes available.	Delayed	7/1/13		9/30/13
6	Heavenly Valley Creek (source to USFS boundary) Sediment	Implementation Analysis		Progress Report			Not Started	11/1/13		3/31/14
6	Natural Sources Analysis	Define Project		Project Definition			Not Started	7/1/13		4/30/14
6	Statewide Mercury in Reservoirs	Development		participate in & produce environmental document		R6 not involved in document prep; crafted by technical team. Draft to MCC sponsors by beginning of May for stakeholder circulation. Predicted for peer review in July 2014.	Overdue	7/1/13	7/1/13	2/28/14
6	Susan River - mercury	watershed assessment		results of 2013 field season sampling	sampling by the USFS	watershed assessment postponed. CDFW took samples. Data not in final form. USFS interacting with CDFW. R6 partnering with USFS.	Not Started	7/1/13		9/30/13
6	Susan River toxicity	Conduct watershed assessment		assessment report		working on Susan River mercury listing instead of toxicity	Delayed	7/1/13		11/30/13

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
6	Susan River toxicity	Stakeholder outreach		host a public meeting		working on Susan River mercury listing instead of toxicity	Delayed	12/1/13		3/31/14
6	Truckee River Sediment	Implementation Analysis		Progress Report			Not Started	7/1/13		5/31/14
7	Alamo River Chlordane, DDT, Chlorpyrifos, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	Assess SB & USEPA in approval process		Assess SB & USEPA in approval process			Not Started	1/1/14		6/30/14
7	Alamo River Chlordane, DDT, Chlorpyrifos, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	RB staff to develop the "being addressed by actions other than a TMDL (4b or 5c)" requests		RB staff to develop the "being addressed by actions other than a TMDL (4b or 5c)" requests			Not Started	10/1/13		12/31/13
7	Alamo River Chlordane, DDT, Chlorpyrifos, Diazinon, Dieldrin, PCBs & Toxaphene 4B or 4C	The RB to certify ICFB Sediment Program as sufficient to address these listings		The RB to certify ICFB Sediment Program as sufficient to address these listings			Not Started	7/1/13		9/30/13
7	Alamo River E. Coli, Enterococcus, & Se Monitoring & Assessment	Assess available monitoring data		Assessment & recommendation report			Not Started	7/1/13		8/31/13
7	Alamo River E. Coli, Enterococcus, & Se Monitoring & Assessment	Continue Monitoring		Monitoring data			Not Started	9/1/13		5/31/14
7	Alamo River E. Coli, Enterococcus, & Se Monitoring & Assessment	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13
7	Alamo River E. Coli, Enterococcus, & Se Monitoring & Assessment	Present Regulatory Action to Regional Board for Action		Regional Board Action			Not Started	1/1/14		5/31/14
7	Alamo River Sediment TMDL Implementation	Assess implementation activities for FY 2012-2013		Implementation progress report			Not Started	7/1/13		8/31/13
7	Alamo River Sediment TMDL Implementation	Attend ICFB TMDL Workshops		Attend ICFB TMDL Workshops			Not Started	5/1/14		6/30/14
7	Alamo River Sediment TMDL Implementation	Monitor Alamo River for sediment		Monthly monitoring required by the TMDL			Not Started	7/1/13		6/30/14
7	Alamo River Sediment TMDL Implementation	Track implementation activities by responsible parties		Track implementation activities by responsible parties			Not Started	7/1/13		5/31/14
7	Alamo River Sedimentation/Siltation TMDL	Monitor, track, and assess TMDL implementation		Monitor, track, and assess TMDL implementation			Not Started	7/1/13		3/31/14
7	Alamo River Sedimentation/Siltation TMDL	Write an implementation progress report		Implementation progress report			Not Started	4/1/14		5/31/14
7	Coachella Valley Storm Water Channel (CVSC) DDT, Dieldrin, PCBs, and Toxaphene Monitoring & Assessment	Assess available monitoring data		Assessment & recommendation report			Not Started	7/1/13		8/31/13
7	Coachella Valley Storm Water Channel (CVSC) DDT, Dieldrin, PCBs, and Toxaphene Monitoring & Assessment	Continue Monitoring		Monitoring data			Not Started	9/1/13		5/31/14
7	Coachella Valley Storm Water Channel (CVSC) DDT, Dieldrin, PCBs, and Toxaphene Monitoring & Assessment	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
7	Coachella Valley Storm Water Channel (CVSC) DDT, Dieldrin, PCBs, and Toxaphene Monitoring & Assessment	Present Regulatory Action to Regional Board for Action		Regional Board Action			Not Started	1/1/14		5/31/14
7	Colorado River Se Delisting	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13
7	Colorado River Se Delisting	Develop a delisting request		Delisting request			Not Started	7/1/13		9/30/13
7	Colorado River Se Delisting	Present Regulatory Action to Regional Board for Action		Regional Board Action			Not Started	1/1/14		5/31/14
7	Colorado River Se Delisting	Present the delisting request to the RB for action		RB adoption of the delisting request			Not Started	10/1/13		1/31/14
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	Assist SB & USEPA in Approval Process		Assist SB & USEPA in Approval Process			Not Started	1/1/14		6/30/14
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	RB staff to develop the "being addressed by actions other than a TMDL (4b or 5c)" requests		RB staff to develop the "being addressed by actions other than a TMDL (4b or 5c)" requests			Not Started	10/1/13		12/31/13
7	Imperial Valley Drains Chlordane, DDT, Dieldrin, PCBs, & Toxaphene 4B or 4C	The RB to certify ICFB Sediment Program as sufficient to address these listings		The RB to certify ICFB Sediment Program as sufficient to address these listings			Not Started	7/1/13		9/30/13
7	Imperial Valley Drains Endosulfan Delisting	Develop a delisting request		Delisting request			Not Started	7/1/13		9/30/13
7	Imperial Valley Drains Endosulfan Delisting	Present the delisting request to the RB for action		RB adoption of the delisting request			Not Started	10/1/13		1/31/14
7	Imperial Valley Drains Endosulfan, PCBs, & Se TMDL Development or Delisting	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13
7	Imperial Valley Drains Endosulfan, PCBs, & Se TMDL Development or Delisting	Present Regulatory Action to Regional Board for Action		Regional Board Action			Not Started	1/1/14		5/31/14
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	Assist SB & USEPA in approval process		Assist SB & USEPA in approval process			Not Started	1/1/14		6/30/14
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	RB staff to develop the "being addressed by actions other than a TMDL (4b or 5c)" requests		RB staff to develop the "being addressed by actions other than a TMDL (4b or 5c)" requests			Not Started	10/1/13		12/31/13
7	New River Chlordane, Chlorpyrifos, DDT, Diazinon, Dieldrin, PCBs, & Toxaphene 4B, or 4C	The RB to certify ICFB Sediment Program as sufficient to address these listings		The RB to certify ICFB Sediment Program as sufficient to address these listings			Not Started	7/1/13		9/30/13
7	New River Copper, HCB, Mercury, and Zinc Delisting	Assist SB & USEPA in approval process		Assist SB & USEPA in approval process			Not Started	2/1/14		6/30/14
7	New River Copper, HCB, Mercury, and Zinc Delisting	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13
7	New River Copper, HCB, Mercury, and Zinc Delisting	Develop delisting requests		Delisting requests			Not Started	7/1/13		9/30/13

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
7	New River Copper, HCB, Mercury, and Zinc Delisting	Present Regulatory Action to Regional Board for Action		Regional Board Action			Not Started	1/1/14		5/31/14
7	New River Copper, HCB, Mercury, and Zinc Delisting	Present the delisting requests to the RB for action		RB adoption of the delisting requests			Not Started	10/1/13		1/31/14
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	Assess implementation activities for FY 2012-2013		Implementation progress report			Not Started	7/1/13		8/31/13
7	New River Dissolved Oxygen, Pathogens, Sediment, and Trash TMDL Implementation	Monitor New River for DO, Pathogens, Sediment, & Trash, & track implementation actions		Monitoring & tracking data			Not Started	7/1/13		6/30/14
7	New River Sedimentation/Siltation	Outreach	Attend ICFB TMDL workshops	Meetings/Educational Materials	Attend ICFB TMDL workshops		Not Started	4/1/15		6/30/14
7	Palo Verde Outfall Drain and Lagoon DDT, Pathogens, & Toxaphene Delisting, 5A to 5C, &/or TMDL	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13
7	Palo Verde Outfall Drain and Lagoon DDT, Pathogens, & Toxaphene Delisting, 5A to 5C, &/or TMDL	Present the technical TMDL to the RB for action		RB action			Not Started	1/1/14		3/31/14
7	Palo Verde Outfall Drain and Lagoon (PVOD) Pathogen Monitoring & Assessment	Assess available monitoring data		Assessment & recommendation report		It is going through delisting process	Not Started	7/1/13		8/31/13
7	Palo Verde Outfall Drain and Lagoon (PVOD) Pathogen Monitoring & Assessment	Continue monitoring		Monitoring data		It is going through delisting process	Not Started	9/1/13		5/31/14
7	Project Management	Complete semi-annual progress report		Semi-annual progress report			Not Started	1/1/14		1/31/14
7	Water Quality Report Cards	Define Project		Project Definition			Not Started	2/20/14		2/20/14
7	Wiest Lake DDT Monitoring & Assessment	Assess available monitoring data		Assessment & recommendation report			Not Started	7/1/13		8/31/13
7	Wiest Lake DDT Monitoring & Assessment	Continue monitoring		Monitoring data			Not Started	9/1/13		5/31/14
7	Wiest Lake DDT Monitoring & Assessment	Develop Regulatory Recommendation		Staff Report			Not Started	7/1/13		12/31/13
7	Wiest Lake DDT Monitoring & Assessment	Present Regulatory Action to Regional Board for Action		Regional Board Action			Not Started	1/1/14		6/30/14
8	Bacterial Indicator TMDLs/ OWTS 303(d) List Assessment	Manage Contract	Contract approved and awaiting funding.	Contract Progress Report	Contract to conduct Santa Ana regional Land Use Assessment.	Execution of this contract is in progress.	Delayed	7/1/13	11/1/13	12/31/13
8	Big Bear Lake Nutrient TMDL - FY 13-14 and 14-15	Linkage Analysis		Wet Weather Linkage Analysis	Contingent on obtaining federal funds to conduct model analysis		Not Started	5/1/13		12/31/13
8	Big Bear Lake Nutrient TMDL - FY 13-14 and 14-15	Manage Contract		Linkage Analysis	Contract to develop wet weather linkage analysis in order to develop wet weather Nutrient TMDL.		Not Started	5/1/13		12/31/13
8	Canyon Lake Bacteria DELISTING	Present Regulatory Action to Regional Board for Action		Regional Board Action	2012 IR Delisting Action	On going. Expected to be completed in FY 14-15.	Delayed	12/1/13		5/31/14
8	Knickerbocker Cr., Bacteria TMDL	Develop CEQA Document		SED (substitute environmental documentation)			Not Started	7/1/13		2/28/14

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
8	Knickerbocker Cr., Bacteria TMDL	Develop Regulatory Recommendation		Develop Category 4b Documentation			Not Started	7/1/13		12/31/13
8	Knickerbocker Cr., Bacteria TMDL	Oversee MS4 Permit Action Activities		Review and approve MS4 actions	The City of BBL is required to investigate and address Knickerbocker Creek exceedances per the MS4 permit. Some initial studies have been completed but additional studies need to be accomplished to identify specific BMPs to address wildlife bottlenecks.		Not Started	7/1/13		4/30/14
8	Knickerbocker Cr., Bacteria TMDL	Peer Review		Peer Review Request and Response			Not Started	9/1/13		2/28/14
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Ag Nutrient Management Plan (Ag NMP) Approval		Regional Board approval of Ag Nutrient Management Plan (Ag NMP)		Awaiting finalization of Regional Board staff's Conditional Waiver for Ag Discharges (CWAD). Anticipate RB approval by Dec 2014.	Delayed	7/1/13	10/1/13	9/30/13
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Ag Nutrient Management Plan (Ag NMP) Oversight		Oversight/Tracking of Ag Nutrient Management Plan (Ag NMP). Review Annual Report		Awaiting CWAD finalization to approve AG NMP.	Delayed	11/1/13		3/31/14
8	Lake Elsinore/Canyon Lake Nutrient TMDL - FY 13-14 and 14-15	Conduct Implementation		Develop WDRs for Ag Operators	Continue to assist NPS staff in development of Ag Waiver.	NPS staff continues to work on CWAD as resources allow.	Delayed	7/1/13		12/31/13
8	Newport Bay Watershed Metals TMDL	CEQA Process	Prepare environmental documents including the CEQA checklist and analysis, and a draft BPA for public review and comment.	CEQA Checklist and Analysis	The complete Substitute Environmental Document, including draft technical staff report, environmental analysis, CEQA checklist and draft BPA		Not Started	10/1/13		4/30/14
8	Newport Bay Watershed Metals TMDL	Finalize BPA	Draft BPA, final SED and Technical Staff Report presented for public hearing.	TMDL BPA and Support Material	The final draft technical staff report and draft BPA that address public and peer review comments.		Not Started	1/1/14		5/31/14
8	Newport Bay Watershed Metals TMDL	Peer Review Process	All components leading to independent peer review (if needed) of the draft technical staff report.	Peer Review	Revised draft technical staff report based on comments received.		Not Started	7/1/13		4/30/14
8	Newport Bay Watershed Metals TMDL	TMDL BPA Adoption Process	TMDL BPA public hearing process, including proposed implementation plan, CEQA and RTC documents.	Regional Board Response	Review and comment on BPA, CEQA and TMDL documents; RB adoption.		Not Started	3/1/14		6/30/14
8	Newport Bay Watershed Selenium TMDL	Second Peer Review Process	First peer review was inadequate; peer reviewers did not have expertise to provide adequate review of the scientific basis of the proposed fish and bird egg tissue targets; in addition, fish tissue target is being revised.	Additional (Second) Peer Review	Complete review of the scientific basis of the fish tissue target, which is being revised, and the bird egg tissue target (first review of tissue targets was inadequate) and any associated changes in the technical staff report related to the tissue targets (e.g., biodynamic model, allocations, compliance monitoring).		Not Started	3/1/14		6/30/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Ag Dry Season Bacterial Reduction Plan Approval		Regional Board approval of Ag Dry Season Bacterial Reduction Plan		In progress. Awaiting list from Ag stakeholder group and resources for mail out and follow-up.	Not Started	3/1/14		6/30/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	TMDL Task 2 - Ag Operators		Issue 13267 Orders		In progress. Awaiting list from Ag stakeholder group and resources for mail out and follow-up.	Not Started	11/1/13		6/30/14
8	Prado Streams Bacterial Indicator TMDLs - FY 13-14 and FY 14-15	Task 2 Ag Operators		Issue 13267 Orders		In progress. Awaiting list from Ag stakeholder group and resources for mail out and follow-up.	Not Started	11/1/13		2/28/14

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
9	2012 CWA Integrated Report (303d and 305b)	CalWQA Database		Finalize CalWQA Database			Delayed	5/1/13		7/31/13
9	2012 CWA Integrated Report (303d and 305b)	Prepare Final Staff Report		Final Staff Report			Delayed	5/1/13		7/31/13
9	2012 CWA Integrated Report (303d and 305b)	Respond to Comments		Response to Comments Documents			Delayed	5/1/13		7/31/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Peer Review	Submit request, receive reviewer comments, and write response to comments.	Review of Numeric Targets		delayed to consolidate with other SD Bay projects	Delayed	8/1/13		12/31/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Prepare Revised Final Preliminary Project Report	Revise to align with new approach and prepare document for peer review.	Revise Project Report		Delayed to consolidate SD Bay projects	Delayed	7/1/13		9/30/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Prepare Revised Final Project Report	Incorporate Peer Review comments and prepare for public release.	Revised Final Project Report		delayed to consolidate with other SD Bay projects	Delayed	12/1/13		1/31/14
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Prepare SB Administrative Record		Administrative Record			Not Started	4/1/13		7/31/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Present Regulatory Action to Regional Board for Action		Regional Board Action		delayed to consolidate with other SD Bay projects	Delayed	1/1/14		5/31/14
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	State Board Hearing Preparation and Hearing		State Board Approval Process			Not Started	4/1/13		7/31/13
9	7th Street Channel (Paleta Creek Mouth) sediment toxicity	Transmit Record and USEPA Approval		USEPA Approval Process			Not Started	3/1/15		5/31/14
9	B Street and Broadway Piers	Develop CEQA Document		SED		Delayed to consolidate SD Bay projects	Delayed	6/1/13	7/1/13	1/31/14
9	B Street and Broadway Piers	Prepare Final Project Report	Public release draft document.	Final Project Report		Delayed to consolidate SD Bay projects	Delayed	3/1/13		1/31/14
9	B Street and Broadway Piers	Present Regulatory Action to Regional Board for Action	Includes preparation of response-to-comments.	Regional Board Action		delayed to consolidate with other SD Bay projects	Delayed	2/1/14		6/30/14
9	B Street and Broadway Piers	Stakeholder Outreach	Submit to Peer Review and response to comments	Meetings and Communications		Delayed to consolidate SD Bay projects	Delayed	7/1/13	7/1/13	6/30/14
9	Downtown Anchorage	Develop CEQA Document		SED		delayed to consolidate with other SD Bay projects	Delayed	6/1/13	6/1/13	1/31/14
9	Downtown Anchorage	Prepare Final Project Report	Public release draft document.	Final Project Report		delayed to consolidate with other SD Bay projects	Delayed	3/1/13	3/1/13	1/31/14
9	Downtown Anchorage	Present Regulatory Action to Regional Board for Action	Includes preparation of response-to-comments document.	Regional Board Action		Delayed to consolidate SD Bay projects	Delayed	2/1/14		6/30/14
9	Famosa Slough and Channel Eutrophic Conditions	Project Analyses		Final Preliminary Project Report		delayed by City of San Diego Contractor	Delayed	2/1/13	12/1/13	7/31/13
9	Healthy Waters Restoration Project	Water Body Prioritization		Prioritize 2010 303(d) Listed Water Bodies		2010 303(d) list adoption delayed by State Board to Dec 2014 (planned)	Delayed	9/1/13	1/1/14	5/31/14
9	Los Penasquitos Lagoon Sedimentation	Transmit Record and OAL Approval		OAL Approval Process			Overdue	2/1/14	6/1/14	4/30/14
9	Los Penasquitos Lagoon Sedimentation	USEPA Approval		USEPA Approval Process			Not Started	5/1/14		6/30/14
9	Mouth of Chollas Creek	Peer Review	Submit request, receive reviewer comments, and write response to comments.	Peer Review Request Submitted to State Board		delayed to consolidate with other SD Bay projects	Delayed	8/1/13		12/31/13
9	Mouth of Chollas Creek	Prepare Revised Final Preliminary Project Report	Revise to align with new approach and prepare document for peer review.	Revise Project Report		Delayed to consolidate SD Bay projects	Delayed	7/1/13		9/30/13
9	Mouth of Chollas Creek	Prepare Revised Final Project Report	Incorporate Peer Review comments and prepare for public release.	Revised Final Project Report		delayed to consolidate with other SD Bay projects	Delayed	12/1/13		1/31/14
9	Mouth of Chollas Creek	Prepare SB Administrative Record		Administrative Record			Not Started	4/1/13		7/31/13

Status of Tasks Not Completed

Org.	Project Name	Task Name	Task Description	Deliverable Name	Deliverable Description	Task Status Comment	Status	Plan Start Date	Actual Start Date	Plan End Date
9	Mouth of Chollas Creek	Present Regulatory Action to Regional Board for Action	Project combined with 7th St. Channel and Mouth of Switzer. This task is also funded under the 7th St. Channel and Mouth of Switzer projects.	Regional Board Action		delayed to consolidate with other SD Bay projects	Delayed	1/1/14		5/31/14
9	Mouth of Chollas Creek	State Board Hearing Preparation and Hearing	Request for State Board Approval , Notice to Clerk, Agenda Item/Resolution to Clerk, Distribute Agenda to Parties, Response to Comments to Clerk. Briefing Request Form, Presentation Materials to Clerk, Briefings.	State Board Approval Process			Not Started	4/1/13		7/31/13
9	Mouth of Switzer Creek	Peer Review	Submit request, receive reviewer comments, and write response to comments.	Review of Numeric Targets		Delayed to consolidate SD Bay projects	Delayed	8/1/13		12/31/13
9	Mouth of Switzer Creek	Prepare Revised Final Preliminary Project Report	Revise to align with new approach and prepare document for peer review.	Revise Project Report		Delayed to consolidate SD Bay projects	Delayed	7/1/13		9/30/13
9	Mouth of Switzer Creek	Prepare Revised Final Project Report	Incorporate Peer Review comments and prepare for public release.	Revised Final Project Report		Delayed to consolidate SD Bay projects	Delayed	12/1/13		1/31/14
9	Mouth of Switzer Creek	Prepare SB Administrative Record		Administrative Record			Not Started	4/1/13		7/31/13
9	Mouth of Switzer Creek	Present Regulatory Action to Regional Board for Action		Regional Board Action		delayed to consolidate with other SD Bay projects	Delayed	1/1/14		5/31/14
9	Mouth of Switzer Creek	State Board Hearing Preparation and Hearing		State Board Approval Process			Not Started	4/1/13		7/31/13
9	Santa Margarita Estuary Eutrophic Condition	Contract Management	Calibrate model for hydrology and water quality. Validate model.	Complete Modeling Studies		The contract value was \$160,000 from FY10/11, which was reduced by \$100,000. As of August 29, 2012, there is \$60,000 of FY10/11 funds remaining. Hydro modeling completed by 12/13, but water quality modeling delayed to June 2014 from USEPA delays in approvals to contractor.	Overdue	1/1/11	8/1/12	12/31/13
9	Santa Margarita River - Phosphorus	Project Analyses		Final Preliminary Project Report		Budget cutbacks resulted in delay of starting project.	Not Started	7/1/13		6/30/14
SB	2012 303 (d) and 305 (b) Integrated Report	CalWQA QA		QA the Regional Boards 303 (d) list		Region 1 is behind schedule	Delayed	7/1/13	1/1/14	4/30/14
SB	Statewide Mercury Reservoir TMDL Project	Prepare Draft Staff Report		Draft Staff Report	Prepare Draft Staff Report for Mercury Fish Tissue Objectives	over optimistic planning	Delayed	2/1/12	2/1/12	6/30/14
SB	Statewide Mercury Reservoir TMDL Project	Prepare Policy		Policy		over optimistic planning	Delayed	5/1/11	5/1/11	8/31/13
SB	Statewide TMDL Program Management	Water Quality Standards Development		Nutrient standard			Overdue	7/1/11	7/1/11	8/31/13