

Butte Yuba Sutter Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

The Regional Water Board has a contract with the Agricultural Commissioners of Butte and Glenn Counties to support the Irrigated Lands Regulatory Program. A Memorandum of Understanding (MOU) between the State Water Board, the Regional Water Board, the Department of Pesticide Regulation, and the Agricultural Commissioners of Butte and Glenn Counties supports this MOU Pilot Program. To date, the Agricultural Commissioners have evaluated Walker Creek (Glenn County) and Pine Creek (Butte County) and plan to evaluate Freshwater Creek (Colusa County) in 2009. The Agricultural Commissioners MOU tasks include observation and communication activities such as: inspections of watershed monitoring locations, inspections of monitoring locations where data indicate that water quality objectives have been exceeded, and assisting in identification of sources of water quality violations. Agricultural Commissioners were also able to conduct public education, public outreach, and reporting to the Commissioners and Central Valley Water Board on the results of their activities along with recommendations for alternative approaches and strategies. Other activities were performed as agreed to by all parties. The reports can be found at http://www.swrcb.ca.gov/centralvalley/water_issues/irrigated_lands/ag_commissioners_pilot/index.shtml.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Butte Slough (HIGH)	DO & pH	DO	LOW
	Toxicity	Toxicity - Selenastrum	HIGH
Gilsizer Slough (HIGH)	DO & pH	pH	LOW
		DO	LOW
	Legacy Pesticides	DDE	MEDIUM
	Pathogens	E. Coli	LOW
	Registered Pesticides	Diazinon	HIGH
	Salinity	EC	LOW
Lower Snake River (LOW)	Pathogens	E. Coli	LOW
Pine Creek (HIGH)	Pathogens	E. Coli	LOW
	Registered Pesticides	Chlorpyrifos	HIGH
Wadsworth Canal (LOW)	Pathogens	E. Coli	LOW

Butte Slough Management Plan Details

Drainage: Butte Creek

Water Body: Butte Slough

Water Body Priority: HIGH

Priority Rationale: Algae toxicity (HIGH) was the highest priority analyte requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring being conducted by the California Rice Commission at this site.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Butte Slough at Pass Road	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Toxicity	Toxicity - <i>Selenastrum</i>	NOV, JAN, MAR, MAY, to supplement CRC MRPP Core and Assessment monitoring

Gilsizer Slough Management Plan Details

Drainage: Gilsizer

Water Body: Gilsizer Slough

Water Body Priority: HIGH

Priority Rationale: Diazinon (HIGH) was the highest priority analyte requiring management. This water body also has the highest number of analytes potentially requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Gilsizer Slough at George Washington Road	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		pH	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Legacy Pesticides	OC Pesticides (sediment survey)	APR
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. Coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Registered Pesticides	Diazinon	JAN-FEB (Both exceedances occurred in February)
	Salinity	EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Lower Snake River Management Plan Details

Drainage: Lower Snake

Water Body: Lower Snake River

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) was the only analyte requiring management.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Lower Snake R. at Nuestro Rd	Pathogens	E. Coli, fecal coliforms	Monthly

Pine Creek Management Plan Details

Drainage: Pine Creek

Water Body: Pine Creek

Water Body Priority: HIGH

Priority Rationale: Chlorpyrifos (HIGH) was the highest priority analyte requiring management.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Pine Creek at Nord Gianella Road	Pathogens	E. Coli, fecal coliforms	Monthly
	Registered Pesticides	Chlorpyrifos	MAY-SEP

Wadsworth Canal Management Plan Details

Drainage: Wadsworth

Water Body: Wadsworth Canal

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) was the only analyte requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Wadsworth Canal at South Butte Rd	Pathogens	E. Coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Butte Slough	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Butte Slough	DO and pH	2.1	Source ID	Evaluate Nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Butte Slough	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Butte Slough	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Butte Slough	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Butte Slough	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Butte Slough	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Butte Slough	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Butte Slough	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Butte Slough	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Butte Slough	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Butte Slough	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Butte Slough	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Butte Slough	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Butte Slough	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Butte Slough	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Butte Slough	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Butte Slough	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Butte Slough	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Butte Slough	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Gilsizer Slough	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Gilsizer Slough	DO and pH	2.1	Source ID	Evaluate Nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Gilsizer Slough	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Gilsizer Slough	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Gilsizer Slough	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management	Subwatershed coordinator; SVWQC	10/1/11	12/31/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				practices			
Gilsizer Slough	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Gilsizer Slough	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Gilsizer Slough	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Gilsizer Slough	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Gilsizer Slough	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Gilsizer Slough	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	4/1/09	6/30/09
Gilsizer Slough	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Gilsizer Slough	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Gilsizer Slough	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Gilsizer Slough	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	12/31/10
Gilsizer Slough	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC	10/1/10	12/31/10
Gilsizer Slough	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Gilsizer Slough	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	1/1/12	3/31/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Gilsizer Slough	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Gilsizer Slough	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Gilsizer Slough	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Gilsizer Slough	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Gilsizer Slough	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Gilsizer Slough	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Gilsizer Slough	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Gilsizer Slough	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Gilsizer Slough	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Gilsizer Slough	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Gilsizer Slough	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Gilsizer Slough	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Gilsizer Slough	Registered Pesticides	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	12/1/09
Gilsizer Slough	Registered pesticides	2.1	Source ID	Review pesticide application data for 3 most recent years for drainage	SVWQC; Ag Commissioners	1/1/09	3/31/09
Gilsizer Slough	Registered pesticides	2.2	Source ID	Identify agricultural and any potential non-agricultural sources explaining the exceedances	SVWQC; Subwatershed	4/1/09	5/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					coordinator; Ag Commissioners		
Gilsizer Slough	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC; Subwatershed coordinator; Ag Commissioners; ILRP Staff	6/1/09	7/30/09
Gilsizer Slough	Registered Pesticides	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Gilsizer Slough	Registered Pesticides	3.1	Management Practice Implementation	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Gilsizer Slough	Registered pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Gilsizer Slough	Registered Pesticides	3.3	Management Practice Implementation	Meetings with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC; Subwatershed coordinator; Ag Commissioners	4/1/10	6/30/10
Gilsizer Slough	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Gilsizer Slough	Registered Pesticides	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Gilsizer Slough	Registered pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Gilsizer Slough	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Gilsizer Slough	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Gilsizer Slough	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					Commissioners		
Gilsizer Slough	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Gilsizer Slough	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Gilsizer Slough	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Gilsizer Slough	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Gilsizer Slough	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Gilsizer Slough	Salinity	3.3	Management Practice Implementation	Develop list of prioritized Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Gilsizer Slough	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Gilsizer Slough	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Gilsizer Slough	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Gilsizer Slough	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Lower Snake River	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Lower Snake River	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Lower Snake River	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Lower Snake River	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Lower Snake River	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Lower Snake River	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Lower Snake River	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Lower Snake River	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Lower Snake River	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Lower Snake River	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Lower Snake River	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Pine Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Pine Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Pine Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Pine Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Pine Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Pine Creek	Pathogen Indicators	3.1	Management Practice	Conduct surveys of Coalition members for current level of implementation of relevant	Subwatershed coordinator; SVWQC	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
			Implementation	management practices (in coordination with Source ID Survey of waste application)			
Pine Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Pine Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Pine Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Pine Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Pine Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Pine Creek	Registered Pesticides	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	12/1/09
Pine Creek	Registered pesticides	2.1	Source ID	Review pesticide application data for 3 most recent years for drainage	SVWQC; Ag Commissioners	1/1/09	3/31/09
Pine Creek	Registered pesticides	2.2	Source ID	Identify agricultural and any potential non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator; Ag Commissioners	4/1/09	5/30/09
Pine Creek	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC; Subwatershed coordinator; Ag Commissioners; ILRP Staff	6/1/09	7/30/09
Pine Creek	Registered Pesticides	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Pine Creek	Registered Pesticides	3.1	Management Practice Implementation	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/09	12/31/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Pine Creek	Registered pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Pine Creek	Registered Pesticides	3.3	Management Practice Implementation	Meetings with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC; Subwatershed coordinator; Ag Commissioners	4/1/10	6/30/10
Pine Creek	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Pine Creek	Registered Pesticides	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Pine Creek	Registered pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Pine Creek	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Wadsworth Canal	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Wadsworth Canal	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Wadsworth Canal	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Wadsworth Canal	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Wadsworth Canal	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Wadsworth Canal	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Wadsworth Canal	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and	10/1/10	3/31/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					growers;		
Wadsworth Canal	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Wadsworth Canal	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Wadsworth Canal	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Wadsworth Canal	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

Colusa Glenn Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

The Regional Water Board has a contract with the Agricultural Commissioners of Butte and Glenn Counties to support the Irrigated Lands Regulatory Program. A Memorandum of Understanding (MOU) between the State Water Board, the Regional Water Board, the Department of Pesticide Regulation, and the Agricultural Commissioners of Butte and Glenn Counties supports this MOU Pilot Program. To date, the Agricultural Commissioners have evaluated Walker Creek (Glenn County) and Pine Creek (Butte County) and plan to evaluate Freshwater Creek (Colusa County) in 2009. The Agricultural Commissioners MOU tasks include observation and communication activities such as: inspections of watershed monitoring locations, inspections of monitoring locations where data indicate that water quality objectives have been exceeded, and assisting in identification of sources of water quality violations. Agricultural Commissioners were also able to conduct public education, public outreach, and reporting to the Commissioners and Central Valley Water Board on the results of their activities along with recommendations for alternative approaches and strategies. Other activities were performed as agreed to by all parties. The reports can be found at http://www.swrcb.ca.gov/centralvalley/water_issues/irrigated_lands/ag_commissioners_pilot/index.shtml.

Table 1. Required Management Plan Analytes As of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Colusa Basin Drain (LOW)	DO and pH	DO	LOW
	Pathogen Indicators	E. Coli	LOW
	Salinity	EC	LOW
Freshwater Creek (MEDIUM)	DO and pH	DO	LOW
	Legacy Pesticides	DDE	MEDIUM
	Salinity	EC	LOW
Logan Creek (LOW)	Pathogen Indicators	E. Coli	LOW
Lurline Creek (MEDIUM)	Legacy Pesticides	DDE	MEDIUM
	Pathogen Indicators	E. Coli	LOW
	Salinity	EC	LOW
	Salinity	TDS	LOW
Sycamore Slough (MEDIUM)	DO and pH	DO	LOW
	Legacy Pesticides	DDE/DDT	MEDIUM
	Pathogen Indicators	E. Coli	LOW
	Salinity	EC	LOW

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
	Salinity	TDS	LOW
Stone Corral Creek (LOW)	DO and pH	DO	LOW
	Pathogen Indicators	E. Coli	LOW
	Salinity	EC	LOW
Stony Creek (MEDIUM)	DO and pH	pH	LOW
	Toxicity	Toxicity - Hyalella	MEDIUM ⁽¹⁾
Walker Creek (HIGH)	DO and pH	DO	LOW
	Pathogen Indicators	E. Coli	LOW
	Registered Pesticides	Chlorpyrifos	HIGH
	Toxicity	Toxicity - Ceriodaphnia	HIGH

1 Reduced from default HIGH priority due to marginal toxicity effects

Colusa Basin Drain Management Plan Details

Drainage: Lower Colusa Drain

Water Body: Colusa Basin Drain

Water Body Priority: LOW

Priority Rationale: Only LOW priority analytes required management.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Colusa Basin Drain above KL	DO & pH	DO	Monthly
	Pathogens	E. Coli, Fecal Coliforms	Monthly
	Salinity	EC	Monthly

Freshwater Creek Management Plan Details

Drainage: Freshwater Creek

Water Body: Freshwater Creek

Water Body Priority: MEDIUM

Priority Rationale: Legacy pesticides (MEDIUM) were the highest priority analytes requiring management.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Freshwater Creek at Gibson Rd	DO & pH	DO	Monthly
	Legacy Pesticides	OC Pesticides (sediment survey)	April 2009
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	EC	Monthly

Logan Creek Management Plan Details

Drainage: Logan Creek

Water Body: Logan Creek

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) was the only analyte requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring, as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Logan Creek at 99W	Pathogens	E. Coli, Fecal Coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Lurline Creek Management Plan Details

Drainage: Lurline Creek

Water Body: Lurline Creek

Water Body Priority: MEDIUM

Priority Rationale: Legacy pesticides (MEDIUM) were the highest priority analytes requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring, as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Lurline Creek at 99W	Legacy Pesticides	OC Pesticides (sediment survey)	APR 2009
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. Coli, Fecal Coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
TDS		Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.	

Sycamore Slough (Rough and Ready Pumping Plant) Management Plan Details

Drainage: Sycamore Area

Water Body: Sycamore Slough

Water Body Priority: MEDIUM

Priority Rationale: Legacy pesticides (MEDIUM) were the highest priority analytes requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring, as described in the Coalition MRPP. Monitoring for Management Plan Implementation will be coordinated with Assessment and Core monitoring for the subwatershed, summarized below.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Rough and Ready Pumping Plant (RD 108)	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Legacy Pesticides	OC Pesticides (sediment survey)	April 2009
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. Coli, Fecal Coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
TDS		Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.	

Stone Corral Creek Management Plan Details

Drainage: Stone Corral Creek

Water Body: Stone Corral Creek

Water Body Priority: LOW

Priority Rationale: E. coli (MEDIUM) and DO (LOW) were the only analytes requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring, as described in the Coalition MRPP. Monitoring for Management Plan Implementation will be coordinated with Assessment and Core monitoring for the subwatershed, summarized below.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Stone Corral Creek near Maxwell Road	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. Coli, Fecal Coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Stony Creek Management Plan Details

Drainage: Lower Stony Creek

Water Body: Stony Creek

Water Body Priority: MEDIUM

Priority Rationale: Sediment toxicity to *Hyalella* (reduced from HIGH to MEDIUM) was the highest priority analyte requiring management. The priority for sediment toxicity was reduced to MEDIUM from the default HIGH priority due to marginal toxicity effects.

MONITORING

Monitoring in 2009 includes only Special Project monitoring, as described in the Coalition MRPP. Monitoring for Management Plan Implementation will be coordinated with Assessment and Core monitoring for the subwatershed, summarized below.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Stony Creek on Hwy 45 near Rd 24	DO & pH	pH	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Toxicity	Sediment Toxicity - <i>Hyalella</i>	APR, AUG
		TOC, Grain size	APR, AUG
		Pyrethroids and Chlorpyrifos in sediment	As needed for toxic sediments

Walker Creek Management Plan Details

Drainage: Willow Creek

Water Body: Walker Creek

Water Body Priority: HIGH

Priority Rationale: was the highest priority Analytes potentially requiring management include Aquatic toxicity to *Ceriodaphnia* (HIGH) and chlorpyrifos (HIGH).

MONITORING

Monitoring in 2009 in Walker Creek includes Assessment and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation will be coordinated with the Assessment and Core monitoring, and is summarized below.

Site Description (PRIORITY)	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Walker Creek near 99W and CR33 (HIGH)	Registered pesticides	Chlorpyrifos	Monthly, JAN-AUG
	Toxicity	<i>Ceriodaphnia</i> toxicity	Monthly, DEC-SEP; TIEs and Dilution Series as required for significant toxicity;
	Pathogens	E. Coli, Fecal Coliforms	Monthly
	DO and pH	DO	Monthly

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Colusa Basin Drain	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	6/30/10
Colusa Basin Drain	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Colusa Basin Drain	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Colusa Basin Drain	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	7/1/11	9/30/11
Colusa Basin Drain	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/11	12/31/11
Colusa Basin Drain	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	1/1/12	3/31/12
Colusa Basin Drain	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/12	6/30/12
Colusa Basin Drain	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Colusa Basin Drain	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Colusa Basin Drain	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Colusa Basin Drain	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Colusa Basin Drain	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID	SVWQC	ongoing	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				Study			
Colusa Basin Drain	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Colusa Basin Drain	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Colusa Basin Drain	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Colusa Basin Drain	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Colusa Basin Drain	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	10/1/10	3/31/11
Colusa Basin Drain	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/11	6/30/11
Colusa Basin Drain	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Colusa Basin Drain	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Colusa Basin Drain	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Colusa Basin Drain	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Colusa Basin Drain	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC, subwatershed coordinator, Ag Commissioners	1/1/10	6/30/10
Colusa Basin Drain	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC, Ag Commissioners	7/1/10	12/31/10
Colusa Basin Drain	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC, ILRP Staff	7/1/10	12/31/10
Colusa Basin Drain	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC, ILRP Staff	1/1/11	6/30/11
Colusa Basin Drain	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Colusa Basin Drain	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/11	9/30/11
Colusa Basin Drain	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	TBD	TBD
Colusa Basin Drain	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC, ILRP Staff, CV-SALTS	TBD	TBD
Colusa Basin Drain	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Colusa Basin Drain	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Colusa Basin Drain	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Freshwater Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Freshwater Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Freshwater Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Freshwater Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	7/1/11	9/30/11
Freshwater Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/11	12/31/11
Freshwater Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	1/1/12	3/31/12
Freshwater Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/12	6/30/12
Freshwater Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Freshwater Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Freshwater Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Freshwater Creek	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	4/1/09	6/30/09
Freshwater Creek	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Freshwater Creek	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Freshwater Creek	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator, with assistance from	7/1/10	9/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					SVWQC		
Freshwater Creek	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	10/1/10	12/31/10
Freshwater Creek	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	10/1/10	12/31/10
Freshwater Creek	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Freshwater Creek	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	1/1/12	3/31/12
Freshwater Creek	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Freshwater Creek	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Freshwater Creek	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC, subwatershed coordinator, Ag Commissioners	1/1/10	6/30/10
Freshwater Creek	Salinity	2.2	Source ID	compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC, Ag Commissioners	7/1/10	12/31/10
Freshwater Creek	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC, ILRP Staff	7/1/10	12/31/10
Freshwater Creek	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC, ILRP Staff	1/1/11	6/30/11
Freshwater Creek	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Freshwater Creek	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/11	9/30/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Freshwater Creek	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	TBD	TBD
Freshwater Creek	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC, ILRP Staff, CV-SALTS	TBD	TBD
Freshwater Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Freshwater Creek	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Freshwater Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Logan Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Logan Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID Study	SVWQC	ongoing	TBD
Logan Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Logan Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Logan Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Logan Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Logan Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	10/1/10	3/31/11
Logan Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/11	6/30/11
Logan Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Logan Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Logan Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Lurline Creek	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	4/1/09	6/30/09
Lurline Creek	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Lurline Creek	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Lurline Creek	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Lurline Creek	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	10/1/10	12/31/10
Lurline Creek	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	10/1/10	12/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Lurline Creek	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Lurline Creek	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	1/1/12	3/31/12
Lurline Creek	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Lurline Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Lurline Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID Study	SVWQC	ongoing	TBD
Lurline Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Lurline Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Lurline Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Lurline Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Lurline Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	10/1/10	3/31/11
Lurline Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from	4/1/11	6/30/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					SVWQC		
Lurline Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Lurline Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Lurline Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Lurline Creek	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Lurline Creek	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC, subwatershed coordinator, Ag Commissioners	1/1/10	6/30/10
Lurline Creek	Salinity	2.2	Source ID	compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC, Ag Commissioners	7/1/10	12/31/10
Lurline Creek	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC, ILRP Staff	7/1/10	12/31/10
Lurline Creek	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC, ILRP Staff	1/1/11	6/30/11
Lurline Creek	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Lurline Creek	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/11	9/30/11
Lurline Creek	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	TBD	TBD
Lurline Creek	Salinity	3.4	Management Practice	Set goals and schedule for implementation of specific additional Management Practices	SVWQC, ILRP Staff, CV-SALTS	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
			Implementation				
Lurline Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Lurline Creek	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Lurline Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Stone Corral Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	6/30/10
Stone Corral Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Stone Corral Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Stone Corral Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	7/1/11	9/30/11
Stone Corral Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/11	12/31/11
Stone Corral Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	1/1/12	3/31/12
Stone Corral Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/12	6/30/12
Stone Corral Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Stone Corral Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Stone Corral Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Stone Corral Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Stone Corral Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID Study	SVWQC	ongoing	TBD
Stone Corral Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Stone Corral Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Stone Corral Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Stone Corral Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Stone Corral Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	10/1/10	3/31/11
Stone Corral Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/11	6/30/11
Stone Corral Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Stone Corral Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					SVWQC		
Stone Corral Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Stone Corral Creek	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Stone Corral Creek	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC, subwatershed coordinator, Ag Commissioners	1/1/10	6/30/10
Stone Corral Creek	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC, Ag Commissioners	7/1/10	12/31/10
Stone Corral Creek	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC, ILRP Staff	7/1/10	12/31/10
Stone Corral Creek	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC, ILRP Staff	1/1/11	6/30/11
Stone Corral Creek	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Stone Corral Creek	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/11	9/30/11
Stone Corral Creek	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	TBD	TBD
Stone Corral Creek	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC, ILRP Staff, CV-SALTS	TBD	TBD
Stone Corral Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Stone Corral Creek	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					SVWQC		
Stone Corral Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Stony Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	6/30/10
Stony Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Stony Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Stony Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	7/1/11	9/30/11
Stony Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/11	12/31/11
Stony Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	1/1/12	3/31/12
Stony Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/12	6/30/12
Stony Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Stony Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Stony Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Stony Creek	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Stony Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Stony Creek	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC, subwatershed coordinator	1/1/09	6/30/09
Stony Creek	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	7/1/09	9/30/09
Stony Creek	Toxicity	3.1	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	Subwatershed coordinator, with assistance from SVWQC	10/1/09	12/31/09
Stony Creek	Toxicity	3.2	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Subwatershed coordinator, with assistance from SVWQC	1/1/10	12/31/10
Stony Creek	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct follow-up surveys to track implementation progress.	Subwatershed coordinator, with assistance from SVWQC	1/1/11	6/30/11
Stony Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Sycamore Slough	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	6/30/10
Sycamore Slough	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Sycamore Slough	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Sycamore Slough	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	7/1/11	9/30/11
Sycamore Slough	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/11	12/31/11
Sycamore Slough	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land	1/1/12	3/31/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					owners and growers		
Sycamore Slough	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/12	6/30/12
Sycamore Slough	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Sycamore Slough	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Sycamore Slough	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Sycamore Slough	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	4/1/09	6/30/09
Sycamore Slough	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Sycamore Slough	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Sycamore Slough	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Sycamore Slough	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	10/1/10	12/31/10
Sycamore Slough	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	10/1/10	12/31/10
Sycamore Slough	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Sycamore Slough	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with	1/1/12	3/31/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					assistance from SVWQC		
Sycamore Slough	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Sycamore Slough	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Sycamore Slough	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID Study	SVWQC	ongoing	TBD
Sycamore Slough	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Sycamore Slough	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Sycamore Slough	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Sycamore Slough	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Sycamore Slough	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	10/1/10	3/31/11
Sycamore Slough	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/11	6/30/11
Sycamore Slough	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Sycamore Slough	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Sycamore Slough	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Sycamore Slough	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10
Sycamore Slough	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC, subwatershed coordinator, Ag Commissioners	1/1/10	6/30/10
Sycamore Slough	Salinity	2.2	Source ID	compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC, Ag Commissioners	7/1/10	12/31/10
Sycamore Slough	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC, ILRP Staff	7/1/10	12/31/10
Sycamore Slough	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC, ILRP Staff	1/1/11	6/30/11
Sycamore Slough	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Sycamore Slough	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator, with assistance from SVWQC	7/1/11	9/30/11
Sycamore Slough	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	TBD	TBD
Sycamore Slough	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC, ILRP Staff, CV-SALTS	TBD	TBD
Sycamore Slough	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Sycamore Slough	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Sycamore Slough	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Walker Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	6/30/10
Walker Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Walker Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Walker Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC, subwatershed coordinator	7/1/11	9/30/11
Walker Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/11	12/31/11
Walker Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	1/1/12	3/31/12
Walker Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/12	6/30/12
Walker Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Walker Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Walker Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Walker Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/10	12/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Walker Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID Study	SVWQC	ongoing	TBD
Walker Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Walker Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator, with assistance from SVWQC	7/1/10	9/30/10
Walker Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Walker Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator, with assistance from SVWQC	1/1/10	6/30/10
Walker Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	10/1/10	3/31/11
Walker Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator, with assistance from SVWQC	4/1/11	6/30/11
Walker Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Walker Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Walker Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Walker Creek	Registered Pesticides	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC, ILRP Staff	1/1/09	12/1/09
Walker Creek	Registered pesticides	2.1	Source ID	Review pesticide application data for 3 most recent years for drainage	SVWQC, Ag Commissioner	1/1/09	3/31/09
Walker Creek	Registered pesticides	2.2	Source ID	Identify agricultural and any potential non-agricultural sources explaining the exceedances	SVWQC, subwatershed coordinator, Ag Commissioner	4/1/09	5/30/09
Walker Creek	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC, subwatershed coordinator, Ag Commissioner, Water Board ILRP	6/1/09	7/30/09
Walker Creek	Registered Pesticides	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	7/1/09	9/30/09
Walker Creek	Registered Pesticides	3.1	Management Practice Implementation	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator, with assistance from SVWQC	10/1/09	12/31/09
Walker Creek	Registered pesticides	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pesticides	Landowners and growers, with assistance from SVWQC, subwatershed coordinator, CURES, UCCE	1/1/10	3/31/10
Walker Creek	Registered Pesticides	3.3	Management Practice Implementation	Meetings with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC, subwatershed coordinator, Ag Commissioner	4/1/10	6/30/10
Walker Creek	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	Subwatershed coordinator, with assistance from SVWQC	4/1/10	6/30/10
Walker Creek	Registered Pesticides	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Walker Creek	Registered pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator, with assistance from SVWQC	TBD	TBD
Walker Creek	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Walker Creek	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Walker Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Walker Creek	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC, subwatershed coordinator	1/1/09	6/30/09
Walker Creek	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC, subwatershed coordinator	7/1/09	9/30/09
Walker Creek	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator, with assistance from SVWQC	10/1/09	12/31/09
Walker Creek	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator, with assistance from SVWQC and land owners and growers	1/1/10	3/31/10
Walker Creek	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC, subwatershed coordinator	4/1/10	6/30/10
Walker Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	SVWQC, subwatershed coordinator	7/1/10	6/30/11
Walker Creek	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator, with assistance from SVWQC	7/1/11	9/30/11
Walker Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC, ILRP Staff	3/1/09	TBD

El Dorado Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes As of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Coon Hollow Creek (HIGH)	Legacy Pesticides	DDE/DDT	MEDIUM
	Toxicity	Toxicity - Ceriodaphnia	HIGH
North Canyon Creek (MEDIUM)	Legacy Pesticides	DDE	MEDIUM
	Pathogen Indicators	E. Coli	LOW

Coon Hollow Creek Management Plan Details

Drainage: Coon Hollow

Water Body: Coon Hollow Creek

Water Body Priority: HIGH

Priority Rationale: *Ceriodaphnia* toxicity (HIGH) was the highest priority analyte requiring management, with multiple observed exceedances and no identified cause of toxicity.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Coon Hollow Creek	Legacy Pesticides	OC Pesticides (sediment survey)	April
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. Coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Toxicity	Toxicity - <i>Ceriodaphnia</i>	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

North Canyon Creek Management Plan Details

Drainage: Coloma

Water Body: North Canyon Creek

Water Body Priority: MEDIUM

Priority Rationale: Legacy pesticides (MEDIUM) were the highest priority analytes requiring management.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
North Canyon Creek	Legacy Pesticides	OC Pesticides (sediment survey)	April
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. Coli, fecal coliforms	JAN-AUG

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Coon Hollow Creek	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	4/1/09	6/30/09
Coon Hollow Creek	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Coon Hollow Creek	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Coon Hollow Creek	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Coon Hollow Creek	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	12/31/10
Coon Hollow Creek	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	10/1/10	12/31/10
Coon Hollow Creek	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Coon Hollow Creek	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	1/1/12	3/31/12
Coon Hollow Creek	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Coon Hollow Creek	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Coon Hollow Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Coon Hollow Creek	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09
Coon Hollow Creek	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Coon Hollow Creek	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Coon Hollow Creek	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Coon Hollow Creek	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Coon Hollow Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Coon Hollow Creek	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Coon Hollow Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
North Canyon Creek	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	4/1/09	6/30/09
North Canyon Creek	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
North Canyon Creek	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
North Canyon Creek	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
North Canyon Creek	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	12/31/10
North Canyon Creek	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	10/1/10	12/31/10
North Canyon Creek	Legacy Pesticides	3.4	Management Practice	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
			Implementation				
North Canyon Creek	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	1/1/12	3/31/12
North Canyon Creek	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
North Canyon Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
North Canyon Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Source ID Study	SVWQC	ongoing	TBD
North Canyon Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	SVWQC	1/1/10	6/30/10
North Canyon Creek	Pathogen Indicators	2.3	Source ID	This element is not required for this drainage.	SVWQC	NA	NA
North Canyon Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: If agricultural sources confirmed, prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
North Canyon Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	SVWQC; Subwatershed coordinator	1/1/10	6/30/10
North Canyon Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
North Canyon Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
North Canyon Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
North Canyon Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	SVWQC	TBD	TBD
North Canyon Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

Lake Napa Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Capell Creek (LOW)	Pathogens	E. Coli	LOW
McGaugh Slough (LOW)	Pathogens	E. Coli	LOW

Capell Creek Management Plan Details

Drainage: Capell Creek

Water Body: Capell Creek

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) is the highest priority analyte for this water body, and the only management plan requirement.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Capell Creek upstream from Lake Berryessa	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

McGaugh Slough Management Plan Details

Drainage: McGaugh Slough

Water Body: McGaugh Slough

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) is the highest priority analyte for this water body, and the only management plan requirement.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
McGaugh Slough	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Capell Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Capell Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Capell Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Capell Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Capell Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Capell Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Capell Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Capell Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Capell Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Capell Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Capell Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
McGaugh Slough	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
McGaugh Slough	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
McGaugh Slough	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
McGaugh Slough	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
McGaugh Slough	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
McGaugh Slough	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
McGaugh Slough	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
McGaugh Slough	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
McGaugh Slough	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
McGaugh Slough	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
McGaugh Slough	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD

Northeastern California Water Association Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

NECWA does not agree with the continuing to spend funds on monitoring activities, or that agriculture should be held responsible for determining the cause. However, NECWA is moving forward with helping their landowners understand their potential impacts to the environment. NECWA has developed a landowner survey as a first step to understand more about what management practices are currently being implemented in their Subwatershed. This initial survey will be conducted in 2009 and is intended to be an educational tool preceding additional surveys of sources and management practice implementation scheduled in 2010 and 2011. The initial survey will help NECWA determine their specific education and outreach strategy. The implementation of this type of program is also expected to impact implementation at the ground level. A copy of the landowner survey will be provided to the Regional Water Board upon request.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Fall River (LOW)	DO & pH	pH	LOW
Pit River (LOW)	DO & pH	DO	LOW
		pH	LOW
	Pathogens	E. Coli	LOW

Pit River Management Plan Details

Drainage: Bieber, Canby

Water Body: Pit River

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) is the highest priority analyte for this water body.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Pit River at Pittville	DO & pH	pH	APR-NOV
		DO	APR-NOV
Pit River at Canby Bridge	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Fall River Management Plan Details

Drainage: Big Lake

Water Body: Fall River

Water Body Priority: LOW

Priority Rationale: pH (LOW) is the only analyte with exceedances for this water body. Elevated pH appears to be a normal condition in this drainage.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Fall River at River Ranch Bridge	DO & pH	pH	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Fall River	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Fall River	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Fall River	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Fall River	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Fall River	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Fall River	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Fall River	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Fall River	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Fall River	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Fall River	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Pit River	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Pit River	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Pit River	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Pit River	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Pit River	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Pit River	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Pit River	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Pit River	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Pit River	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Pit River	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Pit River	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Pit River	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Pit River	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Pit River	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Pit River	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC; Subwatershed coordinator	7/1/10	9/30/10
Pit River	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Pit River	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Pit River	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Pit River	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Pit River	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Pit River	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

PNSSNS Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Coon Creek (HIGH)	DO & pH	DO	LOW
	Pathogens	E. Coli	LOW
	Registered Pesticides	Chlorpyrifos	LOW ¹

¹ The priority for chlorpyrifos was reduced from HIGH to LOW because no exceedances or related toxicity has been observed in Coon Creek since 2005.

Coon Creek Management Plan Details

Drainage: Lower Coon Creek and Middle Coon Creek

Water Body: Coon Creek

Water Body Priority: LOW

Priority Rationale: The only exceedance for HIGH priority analytes in this water body has been for chlorpyrifos. The most recent observed exceedance for chlorpyrifos was in 2005. With no exceedances in the last three monitoring years and no associated toxicity, the priority for chlorpyrifos management was reduced to LOW. Consequently, the highest parameter management priority is LOW.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Coon Creek at Striplin Road	DO & pH	DO	None initially. Future schedule TBD based on source evaluation.
	Registered Pesticides	Chlorpyrifos	MAY-SEP
Coon Creek at Striplin Road	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
Coon Creek at Brewer Road	Pathogens	E. coli, fecal coliforms	Monthly
Coon Creek at DLX Ranches (upstream from Brewer Road and potential non-agricultural source of E. coli)			JAN-JUN

The pathogen monitoring strategy for the two upper Coon Creek sites (at Brewer Road and at DLX Ranches) is designed to isolate and evaluate a specific potential source of bacteria located below the DLX Ranch site. This potential source is a privately owned shooting range that allows camping adjacent to Coon Creek.

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Coon Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Coon Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Coon Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Coon Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Coon Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Coon Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Coon Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Coon Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Coon Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Coon Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Coon Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Coon Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Coon Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Coon Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Coon Creek	Pathogen Indicators	2.4	Source ID	Monitor upstream location to isolate potential non-agricultural	SVWQC	1/1/09	12/31/09
Coon Creek	Pathogen Indicators	2.5	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Coon Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Coon Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Coon Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Coon Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Coon Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Coon Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Coon Creek	Registered Pesticides	1	Review Regulatory Basis	Review monitoring data and regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	12/1/09
Coon Creek	Registered pesticides	2.1	Source ID	Review pesticide application data for 3 most recent years for drainage	SVWQC; Ag Commissioners	1/1/09	3/31/09
Coon Creek	Registered pesticides	2.2	Source ID	Identify agricultural and any potential non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator; Ag Commissioners	4/1/09	5/30/09
Coon Creek	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC; Subwatershed coordinator; Ag Commissioners; ILRP Staff	6/1/09	7/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Coon Creek	Registered Pesticides	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Coon Creek	Registered Pesticides	3.1	Management Practice Implementation	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Coon Creek	Registered pesticides	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Coon Creek	Registered Pesticides	3.3	Management Practice Implementation	Meetings with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	Subwatershed coordinator; SVWQC; Ag Commissioners	4/1/10	6/30/10
Coon Creek	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	Subwatershed coordinator; SVWQC	4/1/10	6/30/10
Coon Creek	Registered Pesticides	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Coon Creek	Registered pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Coon Creek	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

Sacramento Amador Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Cosumnes River (LOW)	DO & pH	pH	LOW
	Toxicity	Sediment Toxicity - <i>Hyalella</i>	LOW ¹
Dry Creek (LOW)	DO & pH	pH	LOW
	Pathogens	E. Coli	LOW
	Salinity	TDS	LOW
Laguna Creek (HIGH)	DO & pH	DO	LOW
		pH	LOW
	Pathogens	E. Coli	LOW
	Toxicity	Toxicity - Ceriodaphnia	HIGH
Grand Island (MEDIUM)	Legacy Pesticides	DDE/DDT	MEDIUM
	Salinity	EC	LOW
		TDS	LOW

¹ Priority for management of sediment toxicity at the Cosumnes River site was reduced from HIGH to LOW because reductions in survival were less than 20% for cases of significant toxicity.

Cosumnes River Management Plan Details

Drainage: Lower Cosumnes

Water Body: Cosumnes River

Water Body Priority: LOW

Priority Rationale: Sediment toxicity (adjusted to LOW) and pH (LOW) are the only analytes requiring management. Priority for management of sediment toxicity at Cosumnes River site was reduced from HIGH to LOW because reductions in survival were less than 20% for cases of significant toxicity.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Cosumnes River at Twin Cities Rd	DO & pH	pH	Monthly
	Toxicity	Sediment Toxicity - <i>Hyalella</i>	APR, AUG
		TOC, Grain size	APR, AUG
		Pyrethroids and Chlorpyrifos in sediment	As needed for toxic sediments

Dry Creek Management Plan Details

Drainage: Jackson Creek

Water Body: Dry Creek

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) is the highest priority analyte requiring management for this water body.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Dry Creek at Alta Mesa Road	DO & pH	pH	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	TDS	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Laguna Creek Management Plan Details

Drainage: Middle Cosumnes

Water Body: Laguna Creek

Water Body Priority: HIGH

Priority Rationale: Multiple analytes potentially require management. *Ceriodaphnia* toxicity (HIGH) is the highest priority analyte requiring management for this water body.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Laguna Creek at Alta Mesa Rd	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		pH	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Toxicity	Toxicity - <i>Ceriodaphnia</i>	FEB, APR, JUN, AUG TIEs, Dilution Series, and chemical analyses as required for significant toxicity;

Grand Island Drain Management Plan Details

Drainage: Sacramento Delta

Water Body: Grand Island Drain

Water Body Priority: MEDIUM

Priority Rationale: DDE/DDT (MEDIUM) is the highest priority analyte requiring management for this water body.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Grand Island Drain near Leary Road	Legacy Pesticides	OC Pesticides (sediment survey)	APR
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	EC	Monthly
		TDS	Monthly

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Cosumnes River	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Cosumnes River	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Cosumnes River	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Cosumnes River	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Cosumnes River	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Cosumnes River	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Cosumnes River	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Cosumnes River	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Cosumnes River	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Cosumnes River	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Cosumnes River	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/10	6/30/10
Cosumnes River	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/10	6/30/10
Cosumnes River	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/10	6/30/10
Cosumnes River	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water,	SVWQC; Subwatershed coordinator	7/1/10	9/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices			
Cosumnes River	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/10	12/31/10
Cosumnes River	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/11	3/31/11
Cosumnes River	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Cosumnes River	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/11	6/29/12
Cosumnes River	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	6/30/12	9/29/12
Cosumnes River	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Dry Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Dry Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Dry Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Dry Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Dry Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Dry Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and	1/1/12	3/31/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
					growers;		
Dry Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Dry Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Dry Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Dry Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Dry Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Dry Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Dry Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Dry Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	SVWQC	7/1/10	9/30/10
Dry Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Dry Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Dry Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Dry Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Dry Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Dry Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Dry Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Dry Creek	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Dry Creek	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10
Dry Creek	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Dry Creek	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Dry Creek	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Dry Creek	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Dry Creek	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Dry Creek	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Dry Creek	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Dry Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Dry Creek	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Dry Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Grand Island Drain	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	4/1/09	6/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Grand Island Drain	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Grand Island Drain	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Grand Island Drain	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Grand Island Drain	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	12/31/10
Grand Island Drain	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	10/1/10	12/31/10
Grand Island Drain	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Grand Island Drain	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	1/1/12	3/31/12
Grand Island Drain	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Grand Island Drain	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Grand Island Drain	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10
Grand Island Drain	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Grand Island Drain	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Grand Island Drain	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Grand Island Drain	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Grand Island Drain	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Grand Island Drain	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Grand Island Drain	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Grand Island Drain	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Grand Island Drain	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Grand Island Drain	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Laguna Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Laguna Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Laguna Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Laguna Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Laguna Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Laguna Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Laguna Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Laguna Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Laguna Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Laguna Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Laguna Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Laguna Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Laguna Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Laguna Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	SVWQC	7/1/10	9/30/10
Laguna Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Laguna Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Laguna Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Laguna Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Laguna Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Laguna Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Laguna Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Laguna Creek	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Laguna Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Laguna Creek	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09
Laguna Creek	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Laguna Creek	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Laguna Creek	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Laguna Creek	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Laguna Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Laguna Creek	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Laguna Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

Shasta Tehama Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Andersen Creek	DO & pH	DO	LOW
(LOW)	Pathogens	E. Coli	LOW
Coyote Creek (LOW)	DO & pH	DO	LOW
Burch Creek (LOW)	Pathogens	E. Coli	LOW

Andersen Creek Management Plan Details

Drainage: Andersen Creek

Water Body: Andersen Creek

Water Body Priority: LOW

Priority Rationale: E. coli (LOW) is the highest priority analyte with exceedances for this water body.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Anderson Creek at Ash Creek Road	DO & pH	DO	Monthly
	Pathogens	E. coli, fecal coliforms	Monthly

Coyote Creek Management Plan Details

Drainage: Coyote Creek

Water Body: Coyote Creek

Water Body Priority: LOW

Priority Rationale: Dissolved oxygen (LOW) is the highest priority analyte with exceedances for this water body. Evaluations to date indicate that the primary cause is lack of flow.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Coyote Creek at Tyler Road	DO & pH	DO	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Burch Creek Management Plan Details

Drainage: Rice and Burch Creek

Water Body: Burch Creek

Water Body Priority: MEDIUM

Priority Rationale: E. coli (MEDIUM) is the highest priority and only analyte with unresolved exceedances for this water body.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Burch Creek west of Rawson Rd	Pathogens	E. coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Anderson Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Anderson Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Anderson Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Anderson Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Anderson Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Anderson Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Anderson Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Anderson Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Anderson Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Anderson Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Anderson Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Anderson Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Anderson Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Anderson Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Anderson Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Anderson Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Anderson Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Anderson Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Anderson Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Anderson Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Anderson Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Burch Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Burch Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Burch Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Burch Creek	Pathogen Indicators	2.3	Source ID	Conduct field survey ("creek walk"), if feasible and access is adequate	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Burch Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Burch Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with	Subwatershed coordinator; SVWQC	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				Source ID Survey of waste application)			
Burch Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Burch Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Burch Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Burch Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Burch Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Coyote Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Coyote Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Coyote Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Coyote Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Coyote Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Coyote Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Coyote Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Coyote Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Coyote Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Coyote Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

Solano Yolo Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes as of September 30, 2007

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Cache Creek (MEDIUM)	Salinity	Boron	LOW
		EC	LOW
	Toxicity	Toxicity - <i>Ceriodaphnia</i>	HIGH
Tule Canal (LOW)	Salinity	Boron	LOW
		EC	LOW
		TDS	LOW
	Pathogen Indicators	E. Coli	LOW
Ulatis Creek (HIGH)	DO & pH	DO	LOW
		pH	LOW
	Pathogens	E. Coli	LOW
	Registered Pesticides	Diuron	HIGH
		Malathion	MEDIUM ⁽²⁾
	Salinity	EC	LOW
		TDS	LOW
	Toxicity	Toxicity - <i>Selenastrum</i>	HIGH
Willow Slough (HIGH)	Legacy Pesticides	DDE	MEDIUM
	Pathogens	E. Coli	LOW
	Registered Pesticides	Chlorpyrifos ¹	HIGH
	Salinity	Boron	LOW
		EC	LOW
		TDS	LOW
	Toxicity	Toxicity - <i>Ceriodaphnia</i>	HIGH
		Toxicity - <i>Selenastrum</i>	HIGH
Trace Metals	Selenium	MEDIUM	
Z-Drain (MEDIUM)	DO & pH	DO	LOW
		pH	LOW
	Pathogens	E. Coli	LOW
	Salinity	EC	LOW
		TDS	LOW

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
	Toxicity	Toxicity - <i>Hyaella</i>	HIGH
1	<p>Actions have already been taken to reduce observed chlorpyrifos exceedances. In Yolo County, chlorpyrifos was made a restricted material and now requires a permit and a notice of intent prior to use. This allows the County Agriculture Department to prescribe conditions on its use. The conditions used were the label requirements plus a 72-hour period of no irrigation or rain after use. The 72 hours limitation is the same requirement as for dormant sprays. The notice of intent allows the department to do a pre-application inspection and insure that conditions are being met. That there were no chlorpyrifos exceedances this year is attributed to the 72-hour restriction and heightened awareness of the label conditions. The goal is to maintain chlorpyrifos as a tool for growers, but these new restrictions have reduced use by about 50%. Based on the preliminary success of these measures, management of chlorpyrifos in Willow Slough will be omit some preliminary steps and focus on assessment of effectiveness of the measures already implemented.</p>		
2	<p>The priority for malathion was revised from HIGH to MEDIUM. The basis for this revision was that the both detections of malathion in Ulatis Creek were below criteria to protect aquatic life.</p>		

Cache Creek Management Plan Details

Drainage: Cache Creek

Water Body: Cache Creek

Water Body Priority: MEDIUM

Priority Rationale: This water body has one HIGH priority analyte (*Ceriodaphnia* toxicity) and the fewest number of analytes potentially requiring management overall. *Ceriodaphnia* toxicity has the minimum number of exceedances to trigger a management plan.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Cache Cr. at Capay Diversion Dam	Salinity ⁽¹⁾	Boron	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Toxicity	Toxicity - <i>Ceriodaphnia</i>	MAY- AUG

¹ Addressed previously in Yolo Management Plan

Tule Canal Management Plan Details

Drainage: South Yolo Bypass

Water Body: Tule Canal

Water Body Priority: LOW

Priority Rationale: This water body has only LOW priority analytes requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Tule Canal at I-80	Pathogens	E. Coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity	EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		TDS	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

Ulatis Creek Management Plan Details

Drainage: Cache Slough

Water Body: Ulatis Creek

Water Body Priority: HIGH

Priority Rationale: This water body has several HIGH priority analytes and a high number of analytes potentially requiring management in the subwatershed.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Ulatis Creek at Brown Road	DO & pH	DO	Monthly
		pH	Monthly
	Pathogens	E. Coli, fecal coliforms	Monthly
	Registered Pesticides	Diuron	JAN-APR (to coordinate with Selenastrum toxicity testing)
		Malathion	MAR-SEP
	Salinity	EC	Monthly
		TDS	Monthly
	Toxicity	Toxicity - Selenastrum	JAN - APR

Willow Slough Management Plan Details

Drainage: Willow Slough

Water Body: Willow Slough

Water Body Priority: HIGH

Priority Rationale: This water body has several HIGH priority analytes and the highest number of analytes potentially requiring management in the subwatershed.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Willow Slough Bypass at Pole Line	Legacy Pesticides	OC Pesticides (sediment survey)	APR
		OC Pesticides (water)	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens ⁽¹⁾	E. Coli, fecal coliforms	Monthly
	Registered Pesticides	Chlorpyrifos	JAN, MAR, MAY, AUG
	Salinity ⁽¹⁾	Boron	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		EC	Monthly
		TDS	Monthly
	Toxicity	Toxicity - <i>Ceriodaphnia</i>	JAN - APR
		Toxicity - <i>Selenastrum</i> ⁽¹⁾	JAN - APR
	Trace Metals	Selenium ⁽¹⁾	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.

¹ Addressed previously in Yolo Management Plan

Z-Drain Management Plan Details

Drainage: Southwest Yolo Bypass

Water Body: Z-Drain

Water Body Priority: MEDIUM

Priority Rationale: This water body has one HIGH priority analyte (sediment toxicity to *Hyaella*), and several lower priority analytes potentially requiring management.

MONITORING

Monitoring in 2009 includes only Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Z Drain – Dixon RCD	DO & pH	DO ⁽¹⁾	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		pH ⁽¹⁾	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Pathogens ⁽¹⁾	E. Coli, fecal coliforms	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Salinity ⁽¹⁾	EC	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
		TDS	Limited to source ID evaluations initially. Future monitoring schedule TBD based on source evaluation.
	Toxicity	Sediment Toxicity - <i>Hyaella</i>	APR, AUG
		TOC, Grain size	APR, AUG
		Pyrethroids and Chlorpyrifos in sediment	As needed for toxic sediments

1 Addressed previously in Yolo Management Plan

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Cache Creek	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Cache Creek	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10
Cache Creek	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Cache Creek	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Cache Creek	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Cache Creek	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Cache Creek	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Cache Creek	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Cache Creek	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Cache Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Cache Creek	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Cache Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Cache Creek	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Cache Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Cache Creek	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09
Cache Creek	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Cache Creek	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Cache Creek	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Cache Creek	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Cache Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Cache Creek	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Cache Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Tule Canal	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Tule Canal	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Tule Canal	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Tule Canal	Pathogen Indicators	2.3	Source ID	Field Survey ("creekwalk") not feasible in this drainage.	NA	NA	NA

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Tule Canal	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Tule Canal	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Tule Canal	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Tule Canal	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Tule Canal	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Tule Canal	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Tule Canal	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Tule Canal	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Tule Canal	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10
Tule Canal	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Tule Canal	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Tule Canal	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Tule Canal	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Tule Canal	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Tule Canal	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Tule Canal	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Tule Canal	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Tule Canal	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Tule Canal	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Ulatis Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Ulatis Creek	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Ulatis Creek	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Ulatis Creek	DO and pH	2.3	Source ID	Source Evaluation Report: Identify and prioritize agricultural and non-agricultural causes	SVWQC; Subwatershed coordinator	7/1/11	9/30/11
Ulatis Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Ulatis Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Ulatis Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/12	6/30/12
Ulatis Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Ulatis Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Ulatis Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Ulatis Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Ulatis Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Ulatis Creek	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Ulatis Creek	Pathogen Indicators	2.3	Source ID	Field Survey ("creekwalk") not feasible in this drainage.	NA	NA	NA
Ulatis Creek	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Ulatis Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Ulatis Creek	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Ulatis Creek	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Ulatis Creek	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Ulatis Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Ulatis Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Ulatis Creek	Registered Pesticides	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	12/1/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Ulatis Creek	Registered pesticides	2.1	Source ID	Review pesticide application data for 3 most recent years for drainage	SVWQC; Ag Commissioners	1/1/09	3/31/09
Ulatis Creek	Registered pesticides	2.2	Source ID	Identify agricultural and any potential non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator; Ag Commissioners	4/1/09	5/30/09
Ulatis Creek	Registered pesticides	2.3	Source ID	Determination of likely agricultural sources of pesticide(s) of concern	SVWQC; Subwatershed coordinator; Ag Commissioners; ILRP Staff	6/1/09	7/30/09
Ulatis Creek	Registered Pesticides	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, percentage of crops from annual crop reports or permit data, pesticide applications, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09
Ulatis Creek	Registered Pesticides	3.1	Management Practice Implementation	If agriculture is identified as a potential source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Ulatis Creek	Registered pesticides	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Ulatis Creek	Registered Pesticides	3.3	Management Practice Implementation	Meetings with individual landowners and growers to discuss exceedances, possible sources, and management plan requirements and goals.	SVWQC; Subwatershed coordinator; Ag Commissioners	4/1/10	6/30/10
Ulatis Creek	Registered pesticides	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	Subwatershed coordinator; SVWQC	4/1/10	6/30/10
Ulatis Creek	Registered Pesticides	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Ulatis Creek	Registered pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Ulatis Creek	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Ulatis Creek	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Ulatis Creek	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10
Ulatis Creek	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Ulatis Creek	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Ulatis Creek	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Ulatis Creek	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Ulatis Creek	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Ulatis Creek	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Ulatis Creek	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Ulatis Creek	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Ulatis Creek	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Ulatis Creek	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Ulatis Creek	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Ulatis Creek	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Ulatis Creek	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09
Ulatis Creek	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of	SVWQC; Subwatershed	7/1/09	9/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	coordinator		
Ulatis Creek	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Ulatis Creek	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Ulatis Creek	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Ulatis Creek	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Ulatis Creek	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Ulatis Creek	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Willow Slough	Legacy Pesticides	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	4/1/09	6/30/09
Willow Slough	Legacy Pesticides	2.1	Source ID	Sampling of water body sediment concentrations	SVWQC	7/1/09	12/31/09
Willow Slough	Legacy Pesticides	2.2	Source ID	Source Evaluation Report: Document spatial distribution of pesticides in sediment. Prioritize potential sources for outreach and management practice implementation.	SVWQC	1/1/10	6/30/10
Willow Slough	Legacy Pesticides	3.1	Management Practice Implementation	If agriculture is determined to be a probable source, survey Coalition members to document sediment and erosion management practices	Subwatershed coordinator; SVWQC	7/1/10	9/30/10
Willow Slough	Legacy Pesticides	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to Legacy Organochlorine Pesticides	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	12/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Willow Slough	Legacy Pesticides	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC	10/1/10	12/31/10
Willow Slough	Legacy Pesticides	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	1/1/11	12/31/11
Willow Slough	Legacy Pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	1/1/12	3/31/12
Willow Slough	Legacy Pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	4/1/12	6/30/12
Willow Slough	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Willow Slough	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Willow Slough	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Willow Slough	Pathogen Indicators	2.3	Source ID	Field Survey ("creekwalk") not feasible in this drainage.	NA	NA	NA
Willow Slough	Pathogen Indicators	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Willow Slough	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Willow Slough	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Willow Slough	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	SVWQC; Subwatershed coordinator	4/1/11	6/30/11
Willow Slough	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Willow Slough	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Willow Slough	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Willow Slough	Registered Pesticides	1	Review Regulatory Basis	NA	NA	NA	NA
Willow Slough	Registered pesticides	2.1	Source ID	NA	NA	NA	NA
Willow Slough	Registered pesticides	2.2	Source ID	NA	NA	NA	NA
Willow Slough	Registered pesticides	2.3	Source ID	NA	NA	NA	NA
Willow Slough	Registered Pesticides	2.4	Source ID	NA	NA	NA	NA
Willow Slough	Registered Pesticides	3.1	Management Practice Implementation	NA	NA	NA	NA
Willow Slough	Registered pesticides	3.2	Management Practice Implementation	NA	NA	NA	NA
Willow Slough	Registered Pesticides	3.3	Management Practice Implementation	NA	NA	NA	NA
Willow Slough	Registered pesticides	3.4	Management Practice Implementation	NA	NA	NA	NA
Willow Slough	Registered Pesticides	3.5	Management Practice Implementation	Implement Management Practices per established Management Plan goals	Landowners and growers	1/1/09	12/31/09
Willow Slough	Registered pesticides	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	1/1/10	3/31/10
Willow Slough	Registered pesticides	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	1/1/09	12/31/09
Willow Slough	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Willow Slough	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Willow Slough	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Willow Slough	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Willow Slough	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Willow Slough	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Willow Slough	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Willow Slough	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Willow Slough	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Willow Slough	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Willow Slough	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Willow Slough	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Willow Slough	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Willow Slough	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Willow Slough	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09
Willow Slough	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	SVWQC; Subwatershed coordinator	7/1/09	9/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Willow Slough	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Willow Slough	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Willow Slough	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Willow Slough	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Willow Slough	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Willow Slough	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Willow Slough	Trace Metals - Se	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan. Identify and review potential downstream impacts. Evaluate whether selenium should be included in the Salinity Management Plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Willow Slough	Trace Metals - Se	2.1	Source ID	Review data and identify areas and drainages with elevated selenium	SVWQC; Subwatershed coordinator; Ag Commissioners	7/1/10	12/31/10
Willow Slough	Trace Metals - Se	2.2	Source ID	Compile information about potential agricultural and non-agricultural sources of selenium	SVWQC; Ag Commissioners; UCCE	1/1/11	6/30/11
Willow Slough	Trace Metals - Se	2.3	Source ID	Source Evaluation Report: Document selenium sources and identify potential downstream impacts.	SVWQC; ILRP Staff	7/1/11	9/30/11
Willow Slough	Trace Metals - Se	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices relevant to selenium	Subwatershed coordinator; SVWQC	10/1/11	12/31/11

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Willow Slough	Trace Metals - Se	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to selenium management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Willow Slough	Trace Metals - Se	3.3	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	Subwatershed coordinator; SVWQC	TBD	TBD
Willow Slough	Trace Metals - Se	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Willow Slough	Trace Metals - Se	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Willow Slough	Trace Metals - Se	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Z-Drain	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	6/30/10
Z-Drain	DO and pH	2.1	Source ID	Evaluate nutrient applications and agricultural uses	SVWQC	7/1/10	12/30/10
Z-Drain	DO and pH	2.2	Source ID	Evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/11	6/30/11
Z-Drain	DO and pH	2.3	Source ID	Field Survey ("creekwalk") not feasible in this drainage.	NA	NA	NA
Z-Drain	DO and pH	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/10	9/30/10
Z-Drain	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	Subwatershed coordinator; SVWQC	10/1/11	12/31/11
Z-Drain	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/12	3/31/12
Z-Drain	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Z-Drain	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/12	1/31/13
Z-Drain	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Z-Drain	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Z-Drain	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10
Z-Drain	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	ongoing	TBD
Z-Drain	Pathogen Indicators	2.2	Source ID	Survey Coalition members in the targeted drainages to inventory applications of animal wastes	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Z-Drain	Pathogen Indicators	2.3	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC	7/1/09	9/30/09
Z-Drain	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices (in coordination with Source ID Survey of waste application)	Subwatershed coordinator; SVWQC	1/1/10	6/30/10
Z-Drain	Pathogen Indicators	3.2	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to pathogens	Subwatershed coordinator; SVWQC; Landowners and growers;	10/1/10	3/31/11
Z-Drain	Pathogen Indicators	3.3	Management Practice Implementation	If agriculture is identified as a probable source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/11	6/30/11
Z-Drain	Pathogen Indicators	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Z-Drain	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Z-Drain	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Z-Drain	Salinity	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/10	12/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Z-Drain	Salinity	2.1	Source ID	Review data and identify areas and drainages with elevated salinity	SVWQC; Subwatershed coordinator; Ag Commissioners	1/1/10	6/30/10
Z-Drain	Salinity	2.2	Source ID	Compile information about potentially salt-sensitive crops in drainages with elevated salinity	SVWQC; Ag Commissioners	7/1/10	12/31/10
Z-Drain	Salinity	2.3	Source ID	Source Evaluation Report: Determine scope of report in coordination with CV-SALTS process	SVWQC; ILRP Staff	7/1/10	12/31/10
Z-Drain	Salinity	2.4	Source ID	Source Evaluation Report: Document salinity source and salt-sensitive crop info (per scope determined above)	SVWQC; ILRP Staff	1/1/11	6/30/11
Z-Drain	Salinity	3.1	Management Practice Implementation	Participate as stakeholder in CV-SALTS Process	SVWQC	1/1/09	12/31/12
Z-Drain	Salinity	3.2	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of irrigation and salinity control management practices	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Z-Drain	Salinity	3.3	Management Practice Implementation	Develop list of crop-specific potential Management Practices specific to salinity management	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Z-Drain	Salinity	3.4	Management Practice Implementation	Set goals and schedule for implementation of specific additional Management Practices	SVWQC; ILRP Staff; CV-SALTS	TBD	TBD
Z-Drain	Salinity	3.5	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	TBD
Z-Drain	Salinity	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	Subwatershed coordinator; SVWQC	TBD	TBD
Z-Drain	Salinity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Z-Drain	Toxicity	2.1	Source ID	Evaluation of Coalition Monitoring Data	SVWQC	1/1/09	6/30/09
Z-Drain	Toxicity	2.2	Source ID	Additional review of pesticide applications	SVWQC	1/1/09	6/30/09
Z-Drain	Toxicity	2.3	Source ID	Identification of potential agricultural and any non-agricultural sources explaining the exceedances	SVWQC; Subwatershed coordinator	1/1/09	6/30/09
Z-Drain	Toxicity	2.4	Source ID	Source Evaluation Report: Prioritize potential sources by reported use of pesticides of	SVWQC; Subwatershed	7/1/09	9/30/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				concern, drainage distance to surface water, irrigated acreage by crop or commodity, pesticide application, irrigation practices, and current management practices	coordinator		
Z-Drain	Toxicity	3.1	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of management practices relevant to specific cause.	Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Z-Drain	Toxicity	3.2	Management Practice Implementation	If specific cause identified and agriculture is identified as a source, develop list of prioritized Management Practices specific to cause of toxicity	Subwatershed coordinator; SVWQC; Landowners and growers;	1/1/10	3/31/10
Z-Drain	Toxicity	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional outreach and Management Practice implementation.	SVWQC; Subwatershed coordinator	4/1/10	6/30/10
Z-Drain	Toxicity	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	7/1/10	6/30/11
Z-Drain	Toxicity	4.1	Effectiveness Evaluation	If agriculture is identified as a source and implementation of additional management practices is appropriate, conduct surveys to track implementation progress.	Subwatershed coordinator; SVWQC	7/1/11	9/30/11
Z-Drain	Toxicity	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD

Upper Feather River Subwatershed Management Plans

Management plan elements will be implemented for the water bodies and parameters indicated in **Table 1**. Site priorities are based on a combination of the number and type of management plan requirements, and the severity and frequency of exceedances. Modifications of priorities for specific analytes (if any) are indicated in **Table 1** footnotes.

Responsibilities and the schedule for management plan implementation are provided in **Appendix C**.

Table 1. Required Management Plan Analytes as of September, 2008

Water Body (PRIORITY)	MP Category	Analyte of Concern	Analyte Priority
Indian Creek (LOW)	DO & pH	DO	LOW
	Pathogens	E. Coli	LOW
Middle Fork Feather River (LOW)	DO & pH	DO	LOW
		pH	LOW
Spanish Creek (LOW)	Pathogens	E. Coli	LOW

ONGOING EFFORTS TO ADDRESS E. COLI, PH AND DO EXCEEDANCES

The Upper Feather River Subwatershed already has several ongoing efforts to address observed exceedances. There are likely several sources contributing to repeated *E. coli* exceedances observed. These sources include rural residential septic systems, township septic systems, municipal dischargers, and wildlife species common throughout the sub-watershed. For example, results of monitoring conducted under the Proposition 50 project during the irrigation season of 2007 documented that *E. coli* concentrations increase significantly in stream water passing through the town of Sierraville, in Sierra Valley. However, it is also likely that cattle on agricultural lands are also contributing to the exceedances observed in the Upper Feather River Watershed (UFRW).

To reduce possible commensal *E. coli* contributions from cattle, the Upper Feather River Watershed Group (UFRWG) is implementing an outreach program specifically tailored to livestock producers in the subwatershed. The goal of this outreach is to stimulate implementation of effective management practices to lower *E. coli* levels transported from pastures and meadows. There is good reason to expect that implementation of a combination of irrigation, grazing management, and vegetative filter management practices can reduce *E. coli*, and other pollutant, contributions from grazed, irrigated pastures such as those found in the UFRW. Therefore, efforts will focus on outreach and implementation, rather than on documentation of management practice effectiveness at the site or pasture scale.

The outreach efforts include a combination of venues including short courses, town hall meetings, newsletters, field days, demonstration projects, and one-on-one education. We will

provide ranchers with information about: 1) grazing and irrigation practices that increase the risk of E. coli transport from pastures and meadows; 2) grazing and irrigation practices that decrease the risk of E. coli transport from pastures and meadows; and 3) the effectiveness of filter strips and wetlands to filter E. coli in pasture and meadow runoff; and 4) technical and financial support available to evaluate possible problems, as well as identify, fund, and implement solutions.

Outreach will continue to be developed and conducted collaboratively between UFRWG, the Coalition, UC Cooperative Extension, USDA Natural Resources Conservation Service, local Resource Conservation Districts and NGO's, and Regional Water Board staff. The UFRWG will also investigate the potential to coordinate outreach with other sub-watershed groups (e.g., Pit River) and coalitions (e.g., Goose Lake) with similar systems and exceedances. The UFRWG will maintain a record of management practice implementation for annual reporting and progress assessment.

The UFRWG developed a special monitoring project to identify the factors determining DO and pH levels, and thus exceedances, at the Sierra Valley (above Grizzly Creek) and Indian Valley monitoring locations. This project is being conducted in collaboration with the University of California Cooperative Extension and UC Davis (samples were collected during the 2008 irrigation season (May-October)). The sampling results and analysis will be documented in a report scheduled for release in the first quarter of 2009.

Monitoring of DO, pH, and pathogen indicators in 2009 is continued as part of the scheduled MRPP Core monitoring.

Indian Creek Management Plan Details

Drainage: East Branch of North Fork Feather (Indian Valley)

Water Body: Indian Creek

Water Body Priority: LOW

Priority Rationale: Only LOW priority analytes require management for this water body.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

The Upper Feather River subwatershed is conducting special studies for DO and pH exceedances in 2008. If the results of these studies resolve the questions for these parameters, additional Special Project monitoring and evaluation will not be required for these analytes.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Indian Creek below Arlington Bridge	DO & pH	DO	MAY-SEP
	Pathogens	E. Coli	MAY-SEP

Middle Fork Feather River Management Plan Details

Drainage: Middle Fork Feather

Water Body: Middle Fork Feather River

Water Body Priority: LOW

Priority Rationale: Only LOW priority analytes require management for this water body.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

The Upper Feather River subwatershed is conducting special studies for DO and pH exceedances in 2008. If the results of these studies resolve the questions for these parameters, additional Special Project monitoring and evaluation will not be required for these analytes.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Middle Fork Feather River above confluence with Grizzly Creek	DO & pH	DO	MAY-SEP
		pH	MAY-SEP

Spanish Creek Management Plan Details

Drainage: East Branch of North Fork Feather (American Valley)

Water Body: Spanish Creek

Water Body Priority: LOW

Priority Rationale: Only LOW priority analytes require management for this water body.

MONITORING

Monitoring in 2009 includes Core and Special Project monitoring as described in the Coalition MRPP. Monitoring for Management Plan Implementation summarized below will be coordinated with the Assessment and Core monitoring.

Site Description	MP Category	Monitoring Parameter	2009 Monitoring Schedule
Spanish Creek below Greenhorn Creek	Pathogens	E. coli	MAY-SEP

Implementation Responsibilities and Schedule

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Indian Creek	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	6/30/09
Indian Creek	DO and pH	2.1	Source ID	Evaluate and Report results of 2008 Special Studies by UFRW	UFRWG; SVWQC	NA	6/30/09
Indian Creek	DO and pH	2.1	Source ID	If not resolved by initial Special Studies, evaluate nutrient applications and agricultural uses	SVWQC	7/1/09	12/30/09
Indian Creek	DO and pH	2.2	Source ID	If not resolved by initial Special Studies, evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/10	6/30/10
Indian Creek	DO and pH	2.3	Source ID	Source Evaluation Report: If not resolved by initial Special Studies, identify and prioritize agricultural and non-agricultural causes	SVWQC; UFRW	7/1/10	9/30/10
Indian Creek	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management practices	UFRW; Subwatershed coordinator; SVWQC	TBD	TBD
Indian Creek	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Indian Creek	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Indian Creek	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	NA
Indian Creek	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	UFRW; Subwatershed coordinator; SVWQC	TBD	TBD
Indian Creek	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Indian Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	12/31/09
Indian Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	1/1/09	12/31/09

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
Indian Creek	Pathogen Indicators	2.2	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC; UFRW	7/1/09	9/30/09
Indian Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices	UFRW; Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Indian Creek	Pathogen Indicators	3.2	Management Practice Implementation	Implement outreach program specifically tailored for livestock producers in the sub-watershed. The goal of this outreach is to stimulate implementation of irrigation and grazing management, and vegetative filter management practices.	UFRW; SVWQC; UCCE	Ongoing	TBD
Indian Creek	Pathogen Indicators	3.3	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	Ongoing	TBD
Indian Creek	Pathogen Indicators	3.4	Management Practice Implementation	Establish goals for Management Practice implementation	SVWQC; UFRW	1/1/10	3/31/10
Indian Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	UFRW; Subwatershed coordinator; SVWQC	TBD	TBD
Indian Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Middle Fork Feather River	DO and pH	1	Review Regulatory Basis	Review monitoring data and the regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	6/30/09
Middle Fork Feather River	DO and pH	2.1	Source ID	Evaluate and Report results of 2008 Special Studies by UFRW	UFRWG; SVWQC	NA	6/30/09
Middle Fork Feather River	DO and pH	2.1	Source ID	If not resolved by initial Special Studies, evaluate nutrient applications and agricultural uses	SVWQC	7/1/09	12/30/09
Middle Fork Feather River	DO and pH	2.2	Source ID	If not resolved by initial Special Studies, evaluate relevant monitoring data for nutrients and organic carbon and relationship to DO and pH exceedances	SVWQC	1/1/10	6/30/10
Middle Fork Feather River	DO and pH	2.3	Source ID	Source Evaluation Report: If not resolved by initial Special Studies, identify and prioritize agricultural and non-agricultural causes	SVWQC; UFRW	7/1/10	9/30/10
Middle Fork Feather River	DO and pH	3.1	Management Practice Implementation	If agriculture is identified as a source, conduct surveys of Coalition members for current level of implementation of relevant management	UFRW; Subwatershed coordinator; SVWQC	TBD	TBD

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
				practices			
Middle Fork Feather River	DO and pH	3.2	Management Practice Implementation	Develop list of prioritized Management Practices specific to DO and pH	Subwatershed coordinator; SVWQC; Landowners and growers;	TBD	TBD
Middle Fork Feather River	DO and pH	3.3	Management Practice Implementation	If agriculture is identified as a source, set goals and schedule for additional Management Practice implementation	Subwatershed coordinator; SVWQC	4/1/12	6/30/12
Middle Fork Feather River	DO and pH	3.4	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	TBD	NA
Middle Fork Feather River	DO and pH	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	UFRW; Subwatershed coordinator; SVWQC	TBD	TBD
Middle Fork Feather River	DO and pH	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
Spanish Creek	Pathogen Indicators	1	Review Regulatory Basis	Review regulatory basis establishing the need for the management plan	SVWQC; ILRP Staff	1/1/09	12/31/09
Spanish Creek	Pathogen Indicators	2.1	Source ID	Coordinate with ILRP Coalitions and Water Board to develop and implement Region-wide Source ID Study	SVWQC	1/1/09	12/31/09
Spanish Creek	Pathogen Indicators	2.2	Source ID	Source Evaluation Report: Prioritize potential sources by reported applications of waste, drainage distance to water bodies, percent of agricultural acreage, and use of relevant management practices.	SVWQC; UFRW	7/1/09	9/30/09
Spanish Creek	Pathogen Indicators	3.1	Management Practice Implementation	Conduct surveys of Coalition members for current level of implementation of relevant management practices	UFRW; Subwatershed coordinator; SVWQC	10/1/09	12/31/09
Spanish Creek	Pathogen Indicators	3.2	Management Practice Implementation	Implement outreach program specifically tailored for livestock producers in the sub-watershed. The goal of this outreach is to stimulate implementation of irrigation and grazing management, and vegetative filter management practices.	UFRW; SVWQC; UCCE	Ongoing	TBD
Spanish Creek	Pathogen Indicators	3.3	Management Practice Implementation	Implement additional Management Practices per established Management Plan goals	Landowners and growers	Ongoing	TBD
Spanish Creek	Pathogen Indicators	3.4	Management Practice	Establish goals for Management Practice implementation	SVWQC; UFRW	1/1/10	3/31/10

Waterbody	Management Plan Category	Task ID	Implementation Element	Element Detail	Responsible Entities	Task Start	Task End
			Implementation				
Spanish Creek	Pathogen Indicators	4.1	Effectiveness Evaluation	Follow-up surveys for tracking implementation progress	UFRW; Subwatershed coordinator; SVWQC	TBD	TBD
Spanish Creek	Pathogen Indicators	4.2	Effectiveness Evaluation	Conduct effectiveness monitoring for tracking goals established for implementation	SVWQC	TBD	TBD
All	All	5.1	Documentation and Reporting	Monitoring Data Reports	SVWQC	6/1/09	TBD
All	All	5.2	Documentation and Reporting	Annual Management Plan Progress Reports	SVWQC	12/1/09	TBD
All	All	5.3	Documentation and Reporting	Reports of implementation progress	SVWQC	12/1/10	TBD
All	All	5.4	Documentation and Reporting	Quarterly Meetings with Water Board ILRP Staff	SVWQC; ILRP Staff	3/1/09	TBD