

Salinas Long-Term Management Plan (LTMP)

DRAFT Purpose and Goals

Drafted by ICF with Review from Monterey County Water Resources Agency

Last updated: July 25, 2018

Purpose: The purpose of the Salinas River LTMP is to describe a multi-benefit management program that addresses needs related to Monterey County Water Resources Agency (Agency) facilities and operations, as well as related issues such as flood risk reduction, water supply, water quality, natural resource conservation, threatened and endangered species management, and federal and state Endangered Species Act compliance.

Goals:

Goals 1-5 are based on the Salinas River Management Program grant issued by the California State Coastal Conservancy. Goals are numbered to facilitate discussion, not to suggest any prioritization.

1. Identify long-term solutions for management of the Salinas River that include flood reduction, water resource management, and habitat management for threatened and endangered species.
2. Investigate the Salinas River Lagoon for the potential of reducing flooding on all lands in the vicinity.
3. Identify potential improvements to steelhead migration issues in the Salinas River utilizing existing management efforts and anticipated future projects.
4. Integrate with the Agency's multi-benefit Salinas River Stream Maintenance Program, including documenting effectiveness.
5. Develop the framework for implementing the LTMP that meets a variety of multi-benefit management goals, including implementation of the forthcoming Groundwater Sustainability Plan for the Salinas River Basin.
6. Build upon and incorporate public/private partnerships, compatible with existing land uses and water rights.
7. Establish the historical and existing conditions in the lower Salinas River watershed regarding the physical, biological, and chemical changes in the system over time, and to the extent possible, the sources driving those changes.
8. Inform development of a future Agency habitat conservation plan (HCP) and other planning documents.

Salinas Long-Term Management Plan

DRAFT Outline

Drafted by ICF with Review from Monterey County Water Resources Agency

Last updated: July 16, 2018

Executive Summary

Chapter 1 Introduction

- 1.1 Purpose and Goals
- 1.2 Scope
 - 1.2.1 Geographic Scope
 - 1.2.2 Management Activities Considered
 - 1.2.3 Planning Horizon
- 1.3 Preparation Process
 - 1.3.1 LTMP Consulting Team
 - 1.3.2 Stakeholder Engagement
 - 1.3.2.1 Technical Design Team and Scientific Working Group
 - 1.3.2.2 Planning Group
 - 1.3.2.3 Public Outreach
- 1.4 Document Organization

Chapter 2 Background

- 2.1 Monterey County Water Resources Agency Mission
- 2.2 Jurisdiction and Funding Mechanisms
- 2.3 Water Resource Management
 - 2.3.1 Water Supply Operations
 - 2.3.2 Flood Management
 - 2.3.3 Facilities
 - 2.3.3.1 Reservoirs
 - 2.3.3.2 Groundwater Recharge
 - 2.3.3.3 Additional Facilities
- 2.4 Agency Projects and Programs
 - 2.4.1 Agency-led Projects and Programs
 - 2.4.1.1 Castroville Seawater Intrusion Program
 - 2.4.1.2 Salinas River Lagoon Management and Enhancement Plan
 - 2.4.1.3 Salinas Valley Water Project
 - 2.4.1.4 Salinas River Stream Maintenance Program
 - 2.4.1.5 Interlake Tunnel and Spillway Modification Project
 - 2.4.1.6 Operations and Maintenance Activities in Salinas River
 - 2.4.2 Agency Partnership Projects and Programs
 - 2.4.2.1 Pure Water Monterey Project

- 2.4.2.2 Sustainable Groundwater Management Act and the Salinas Valley Groundwater Sustainability Plan
 - 2.4.2.3 WaterSMART Basin Study for Salinas River Basin
 - 2.4.2.4 Resource Conservation District of Monterey County Salinas Watershed Invasive Non-native Plant Control and Restoration Program
- 2.5 Regulatory Context
 - 2.5.1 Laws and Regulations Relevant to Salinas River Management
 - 2.5.1.1 Federal Clean Water Act
 - 2.5.1.2 Federal Rivers and Harbors Act
 - 2.5.1.3 Federal Endangered Species Act
 - 2.5.1.4 Migratory Bird Treaty Act
 - 2.5.1.5 National Environmental Policy Act
 - 2.5.1.6 National Historic Preservation Act
 - 2.5.1.7 State Porter-Cologne Water Quality Control Act
 - 2.5.1.8 State Lake or Streambed Alteration Agreement
 - 2.5.1.9 California Endangered Species Act
 - 2.5.1.10 California Environmental Quality Act
 - 2.5.1.11 California Coastal Act
 - 2.5.1.12 Water Rights
 - 2.5.1.13 Other State Wildlife Regulations
 - 2.5.2 Regulatory Permit Overview
 - 2.5.2.1 Salinas Valley Water Project
 - 2.5.2.2 Salinas River Lagoon Breaching
 - 2.5.2.3 Salinas River Stream Maintenance Program

Chapter 3 Historical and Baseline Conditions

- 3.1 Physical Characteristics
 - 3.1.1 Location
 - 3.1.2 Topography
 - 3.1.3 Geology
 - 3.1.4 Soils
 - 3.1.5 Climate
 - 3.1.5.1 Temperature
 - 3.1.5.2 Precipitation
 - 3.1.6 Watersheds
 - 3.1.7 Hydrology and Geomorphology
 - 3.1.7.1 Setting
 - 3.1.7.2 Historical Conditions
 - 3.1.7.3 Current Baseline Conditions
 - 3.1.8 Groundwater
 - 3.1.9 Water Quality

- 3.1.9.1 Fecal Indicator Bacteria
 - 3.1.9.2 Nutrients
 - 3.1.9.3 Pesticides
 - 3.1.9.4 pH
 - 3.1.9.5 Salinity
 - 3.1.9.6 Sediment Toxicity
 - 3.1.9.7 Turbidity
 - 3.1.9.8 Water Temperature
- 3.2 Land Use
 - 3.2.1 Historical Land Use
 - 3.2.2 Current Land Use
 - 3.2.3 Future Designated Uses
 - 3.2.4 Protected Lands
- 3.3 Water Budget
- 3.4 Biological Resources
 - 3.4.1 Ecoregions
 - 3.4.2 Natural Communities
 - 3.4.3 Special-Status Species
 - 3.4.4 Habitat Connectivity
- 3.5 Environmental Stressors and Pressures
 - 3.5.1 Changes in Natural Communities
 - 3.5.1.1 Shifting Distribution
 - 3.5.1.2 Habitat Loss, Fragmentation, or Degradation
 - 3.5.1.3 Changes to the Natural Fire Regime
 - 3.5.2 Altered River Hydrology
 - 3.5.2.1 Decreased Flow
 - 3.5.2.2 Degraded Water Quality
 - 3.5.2.3 Flood Frequency and Intensity
 - 3.5.2.4 Reduced Groundwater Levels
 - 3.5.2.5 Altered Sediment-Deposition Regime

Chapter 4 Management Planning Resources, Data Gaps, and Considerations

- 4.1 Existing Data, Models, and Literature
- 4.2 Data Gap Assessment
- 4.3 Linkages Between Hydrology, Geomorphology, and Groundwater
 - 4.3.1 Flow Variability
 - 4.3.2 Channel Characteristics
 - 4.3.3 Flooding and Breaching of the Salinas River Lagoon
 - 4.3.4 Groundwater Recharge
 - 4.3.5 Groundwater Pumping
- 4.4 Linkages Between Physical and Biological Conditions

- 4.4.1 Surface Flows and Water Quality
- 4.5 Management Constraints
 - 4.5.1 Land Ownership
 - 4.5.2 Pre-Existing Commitments

Chapter 5 Long-Term Management Strategy Options

- 5.1 Goals and Objectives
- 5.2 Potential Management Strategies
- 5.3 Project and Design Strategies
- 5.4 Areas for Targeted Management Actions

Chapter 6 Implementation Recommendations

- 6.1 Collaborations, Capacity Building, and Information Sharing
- 6.2 Funding
- 6.3 Environmental Compliance Strategies
- 6.4 Monitoring and Adaptive Management

Chapter 7 References

Appendices

- A Glossary
- B Stakeholder Issues Assessment Report
- C Data Source Summary and Data Gaps Identification Memorandum
- D Species Accounts

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 1 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
2013 Outreach Program			
	Monterey County Water Resources Agency (MCWRA). 2013. Salinas River Management Program Comments from Public Meeting. December	MCWRA 2013	
	Monterey County Water Resources Agency (MCWRA). 2013. PowerPoint Presentation of Salinas River Management Program Comments from Public Meeting. December	MCWRA 2013	
Arroyo Seco			
	Monterey County Water Resources Agency (MCWRA). 2013. Low Flow Fisheries Monitoring Feasibility Evaluation of Tributaries of the Arroyo Seco River	MCWRA 2013	
	Londquist, Brian. 2001. Steelhead (<i>Oncorhynchus mykiss</i>) Habitat Assessment along the Arroyo Seco River. California State University Monterey Bay. April.	Londquist 2001	
	Central Coast Watershed Studies (CCoWS). 2003. Fish Species Distribution and Habitat Quality For Selected D76 in the Salinas Watershed. Summer and Fall 2002. The Watershed Institute, Earth Systems Science and Policy. California State University, Monterey	CCoWS 2003	
	The Nature Conservancy (TNC). 2008. Main Stem Lower Salinas River, Monterey and San Luis Obispo Counties CAP Workbook Threats Assessment Summary Tables.	TNC 2008	
	Monterey County Water Resources Agency (MCWRA). 2014. <i>Minimum Passage Criteria Survey for Adult and Juvenile Steelhead</i> . Annual monitoring report for the Salinas Valley Water Project prepared for NMFS. April	MCWRA 2014	
Castroville Seawater Intrusion Program			
	RMC Water and Environment. 2007. Zone 2B Proposition Engineer's Report. Prepared for Monterey County Water Resources Agency. November	RMC 2007	To document the basis of delivery charges for recipients of water delivered by the SRDF. The rpt also addresses allocation of benefits for the purpose of establishing water delivery charges under Prop 218. Good source for background on SVWP and SRDF.
	Geoscience. 2013. Protective Elevations to Control Sea Water Intrusion in the Salinas Valley. Technical Memorandum. November. 36 pp.	Geoscience 2013	
	Monterey County Water Resources Agency (MCWRA). 2017. <i>Recommendations to Address the Expansion of Seawater Intrusion in the Salinas River Groundwater Basin</i> . Special Reports Series 17-01. October. 244 pp.	MCWRA 2017	
Fisheries Restoration Grant Program Application			

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 2 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	California Department of Fish and Wildlife (CDFW). 2016. Aquatic Invasive Species Disinfection/Decontamination Protocols (Northern Region). The State Resource Agency. February.	CDFW 2016	
	National Marine Fisheries Service (NMFS). 2013. South Central California Steelhead Recover Plan. West Coast Region. NMFS. Long Beach, CA. December.	NMFS 2013	
	Brown and Caldwell. 2015a. <i>State of the Salinas River Groundwater Basin</i> . Prepared for Monterey County Water Resources Agency. January. 240 pp.	Brown and Caldwell 2015a	
	Monterey County Water Resources Agency (MCWRA). 2018. California Department of Fish and Wildlife Fishery Restoration Grant Program 2018/2019 Funding Opportunity Final Application. March.	MCWRA 2018	
Funding			
	Monterey One Water . 2018. Reclamation Budgets Presentation. May.	Monterey One Water 2018	
	Monterey County Water Resources Agency (MCWRA). 2017. Monterey County Water Resources Agency Recommended Budget for Fiscal Year ending June 30th 2018. 36 pp.	MCWRA 2017	
	Monterey County Water Resources Agency (MCWRA). 2017. Monterey County Water Resources Agency Budget Summary by Fund for Fiscal Year ending June 30th 2018.	MCWRA 2017	
	Raftelis Financial Consultants. 2017. Monterey County Water Resources Agency Rate Study Presentation. March.	Raftelis Financial Consultants 2017	
Greater Monterey County Integrated Regional Water Management Program (IRWMP)			
	Greater Monterey County Integrated Regional Water Management Program (IRWMP). 2013. Integrated Regional Water Management Plan for the Greater Monterey County Region. Regional Water Management Group. April.	IRWMP 2013	
	Greater Monterey County Integrated Regional Water Management Program (IRWMP). 2013. Integrated Regional Water Management Plan for the Greater Monterey County Region. Section E Resource Management Strategies. Regional Water Management Group. April.	IRWMP 2013	
	Greater Monterey County Integrated Regional Water Management Program (IRWMP). 2013. Integrated Regional Water Management Plan for the Greater Monterey County Region. Section F Project Review Process. Regional Water Management Group. April.	IRWMP 2013	

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 3 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
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	Greater Monterey County Integrated Regional Water Management Program (IRWMP). 2013. Integrated Regional Water Management Plan for the Greater Monterey County Region. Section R Climate Change. Regional Water Management Group. April.	IRWMP 2013	
	Greater Monterey County Integrated Regional Water Management Program (IRWMP). 2013. Integrated Regional Water Management Plan for the Greater Monterey County Region. Appendix J Invasive Species. Regional Water Management Group. April.	IRWMP 2013	
	Greater Monterey County Integrated Regional Water Management Program (IRWMP). 2013. Integrated Regional Water Management Plan for the Greater Monterey County Region. Appendix N Storm Water Resources Plan. Regional Water Management Group. April.	IRWMP 2013	
Groundwater Monitoring Reports			
	Brown and Caldwell. 2015a. <i>State of the Salinas River Groundwater Basin</i> . Prepared for Monterey County Water Resources Agency. January. 240 pp.	Brown and Caldwell 2015a	
	Monterey County Water Resources Agency (MCWRA). 2012. <i>Ground Water Summary Report 2011</i> . October. 16 pp.	MCWRA 2012	
	Monterey County Water Resources Agency (MCWRA). 2013. <i>Ground Water Summary Report 2012</i> . October. 16 pp.	MCWRA 2013	
	Monterey County Water Resources Agency (MCWRA). 2014. <i>Ground Water Summary Report 2013</i> . October. 16 pp.	MCWRA 2014	
	Monterey County Water Resources Agency (MCWRA). 2015. <i>Groundwater Extraction Summary Report 2014</i> . October. 20 pp.	MCWRA 2015	
	Monterey County Water Resources Agency (MCWRA). 2017. <i>Groundwater Extraction Summary Report 2015</i> . April. 20 pp.	MCWRA 2017	
	Monterey County Water Resources Agency (MCWRA). 2015. <i>CASGEM Monitoring Plan for High and Medium Basins in the Salinas Valley Groundwater Basin</i> . March.	MCWRA 2015	
Historical Ecology Reconnaissance for Lower Salinas River			
	San Francisco Estuary Institute. 2009. Historical Ecology Reconnaissance for the Lower Salinas River. Prepared for the Nature Conservancy; Monterey County Region. August. 32pp.	SFEI 2009	
Interlake Tunnel			

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 4 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	Monterey County Water Resources Agency (MCWRA). 2016. <i>Interlake Tunnel and Spillway Modification Project Notice of Preparation/Initial Study</i> . April. 65 pp.	MCWRA 2016	EIR for white bass for the state
	Monterey County Water Resources Agency (MCWRA). 2016. <i>Interlake Tunnel and Spillway Modification Project Presentation</i> .	MCWRA 2016	
	California Department of Fish and Game. 1984. Draft Environmental Impact Report for the White Bass Management Program. The State Resource Agency. June. 287 pp.	CDFG 1984	
	Monterey County Water Resources Agency (MCWRA). 2015. Status of White Bass in Lake Nacimiento and its Relationship to the proposed Interlake Tunnel Project and the Sustainability of Monterey County's Water Resources	MCWRA 2015	Summarizes the issues with white bass presence in the watersheds and how the Interlake tunnel project has potential to release more of the population into the Salinas and its direct effects on steelhead recovery. Options covered in the report include isolating, eradicating, and moving bass. Report dives into the effects of each of these options.
	Section 401 Water Quality Certification Application for Geotechnical Investigations at San Antonio Dam in prep for the Interlake Tunnel and Spillway Modification Project	MCWRA 2018	Application for geotech investigations at San Antonio Dam
	Section 1600 Lake or Streambed Alteration Agreement Application for Geotechnical Investigations at San Antonio Dam in prep for the Interlake Tunnel and Spillway Modification Project	MCWRA 2018	
Moro Cojo			
	Santa Cruz Long-toed Salamander Survey in Upper Moro Cojo Slough, Monterey County, CA. Prepared for Saratoga Savings and Loan Association. May 26 pp.	ABA Consultants 1990	1990 study of Moro Cojo - found 4 SCLtS, 1 CRLF
	The Habitat Restoration Group. 1996. Moro Cojo Management and Enhancement Plan. Prepared for the Monterey County Planning and Building Inspection Department and State Coastal Conservancy October. 155 pp.	The Habitat Restoration Group 1996	1996 plan to enhance and manage Moro Coho Slough
Nacitone			
	Swanson Hydrology and Geomorphology. 2008. Water Resources, Water Quality, and Sediment Supply for the Nacitone Watershed Technical Memorandum. Prepared for Central Coast Salmon Enhancement and Monterey County Water Resource Agency. April. 49 pp.	Swanson Hydrology and Geomorphology, 2008	Hydrology of Nacitone Watershed (Both Nacimiento and San Antonio rivers).

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 5 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	Nacitone Watersheds Steering Committee (NWSC) and Central Coast Salmon Enhancement, Inc. (CCSE). 2008. <i>San Antonio and Nacimientos Rivers Watershed Management Plan</i> . Prepared for Monterey County Water Resources Agency and the State Water Resources Control Board. October. 177 pp.	NWSC and CCSE 2008	Watershed Plan for Nacitone Watershed (Both Nacimientos and San Antonio rivers. Good info on both rivers and table on short term and long term goals for watershed planning between both counties.
	County of San Luis Obispo Flood Control and Water Conservation District. 2014. Nacimientos Water Project: Initial Watershed Sanitary Survey. Prepared for California Department of Public Health Division of Drinking Water and Environmental Management Drinking Water Program District 06 Santa Barbara. January. 490 pp.	San Luis Obispo County Flood Control and Water Conservation District 2014	
O&M Existing Facilities			
		MCWRA 2018	List of all the facilities in the management area.
Otter Project			
	Mills Legal Clinic. 2016. Sixty-Day Notice of Intent to Sue for Endangered Species Act and Clean Water Act Violations in relation to the Salinas Valley Water Project. June.	Mills Legal Clinic 2016	
	Downey Brand. 2016. Monterey County Water Resources Agency Response to 60-Day Notice of Intent to Sue for violations on the Salinas Valley Water Project. August.	Downey Brand 2016a	
	Downey Brand. 2016. Monterey County Water Resources Agency Response to 60-Day Notice of Intent to Sue for violations on the Salinas Valley Water Project- Appendices. August.	Downey Brand 2016b	
PureWater			
	Schaff & Wheeler. 2016. Water Right Application 32263A, Blanco Drain Flow Memorandum. Letter to Bill Stevens at National Marine Fisheries Service. February. 5 pp.	Schaff & Wheeler 2016	Memo answering NMFS questions regarding the Blanco Drain. Good water quality info.
	U.S. Fish & Wildlife Service (USFWS). 2016. Biological Opinion for the Pure Water Monterey Groundwater Replenishment Project, Monterey County, CA (O8EVENOO-2016-TA-0643).	USFWS 2016	Biological Opinion from USFWS on PureWater Monterey Project. CRLF, Monterey spineflower and Monterey gilia. Good source for project description and analysis on plants.
	National Marine Fisheries Service (NMFS). 2016. Endangered Species Act Section 7(a)(2) Concurrence Letter and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Pure Water Monterey Groundwater Replenishment Project. Reference # WCR-2016-5540. December	NMFS 2016	Letter of Concurrence from NMFS on the PureWater Monterey Project. May affect, but not likely to adversely affect: Great source for the project description and mentions reclamation ditch facilities as well as Blanco Drain.
	Denise Duffy & Associates. 2015. Biological Assessment for the U.S. Fish & Wildlife Service: Pure Water Monterey Groundwater Replenishment Project. Revised March 2016. 144 pp.	Denise Duffy & Associates 2015	USFWS Biological Assessment PWM

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 6 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	HDR. 2016. Draft Biological Assessment: Effects of the Pure Water Monterey Groundwater Replenishment Project on the South-Central California Coast Steelhead Distinct Population Segment. January 2016. 144 pp.	HDR 2016	NMFW Biological Assessment PWM
RCDMC Invasive Plant Removal Program			
	Resource Conservation District of Monterey County (RCDMC). 2011. Initial Study for the Salinas Watershed Invasive Non-native Plant Control and Restoration Program. September. 58 pp.	RCDMC 2011	Arundo Removal along the Salinas River. Good info on veg.
Reclamation Ditch			
	Central Coast Watershed Studies (CCoWS). 2006. Final MCWRA Reclamation Ditch Watershed Assessment and Management Strategy: Part A Watershed Assessment. The Watershed Institute, Earth Systems Science and Policy. California State University,	CCoWS 2006	Summary of the Reclamation Ditch Watershed
	H.T. Harvey & Associates. 2013. Potential Water Treatment Options for the Blanco Drain and the Reclamation Ditch Watersheds. July.	H.T. Harvey & Associates 2013	
	Central Coast Watershed Studies (CCoWS). 2006. Final MCWRA Reclamation Ditch Watershed Assessment and Management Strategy: Part B Management Strategy. The Watershed Institute, Earth Systems Science and Policy. California State University,	CCoWS 2006	Good info for management strategy
Salinas River Lagoon Enhancement Plan			
	Gilchrist & Associates, The Habitat Restoration Group, Philip Williams & Associates, Wetland Research Associates, and Monterey County Water Resources Agency (MCWRA). 1997. Salinas River Lagoon Management and Enhancement Plan. Prepared for the Salinas River Lagoon Task Force and MCWRA. March. 232 pp.	Gilchrist & Associates et al. 1997	
	Gilchrist & Associates, The Habitat Restoration Group, Philip Williams & Associates, Wetland Research Associates, and Monterey County Water Resources Agency (MCWRA). 1997. Salinas River Lagoon Management and Enhancement Plan. Prepared for the Salinas River Lagoon Task Force and MCWRA. March. 232 pp.	Gilchrist & Associates et al. 1997	
	Salinas River Lagoon Task Force Meeting Notes. 2016.	Salinas River Lagoon Task Force Meeting Notes 2016	
Salinas River Lagoon Sandbar Management			

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 7 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
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	National Marine Fisheries Service (NMFS). 2009. Draft Biological Opinion for Breaching of the Salinas River Lagoon (Corps File Number 16798S). July. 42 pp.	NMFS 2009	
	Castaneda. J.F. 2015. Flooded Artichokes in SMF Ranches Presentation. January.	Castaneda 2015	Lagoon Flooding PPT in Dec. 2014
	H.T. Harvey & Associates. 2009. Salinas River Lagoon Fisheries Enhancement Project Biological Assessment for the Western Snowy Plover, California Brown Pelican, Steelhead, Smith's Blue Butterfly, and Essential Fish Habitat. June. 76 pp.	H.T. Harvey & Associates 2009	
	Cluer, B. and J. McKeon. 2005. The Problem of Repetitive Sand Dunes in the Salinas River: With Recommended Flows to Create Fish Passage through the Sand-Dune Field.	Cluer & McKeon 2005	
	A checklist of fishes of the Monterey Bay including Elkhorn Slough, San Lorenzo, Pajaro, and Salinas Rivers	Kukowski 1972	
	Central Coast Wetlands Group at Moss Landing Marine Labs. 2015. Mouth Maintenance Permit Summary for Four River Mouth Lagoons Group 2015 in California. November. 3 pp.	Central Coast Wetlands Group 2015	
	Toft, J.D., S.H. Munsch, J.R. Cordell, K. Siitari, V.C. Hare, B. Holycross, Toft et al. 2015 L. A. DeBruyckere, and C. M. Greene. Nursery Functions of West Coast Estuaries: Data Assessment for Juveniles of 15 Focal Fish and Crustacean Species. Pacific Marine and Estuarine Fish Habitat Partnership and National Fish Habitat Partnership. November. 60		
	Central Coast Wetlands Group at Moss Landing Marine Labs. 2015. Salinas River Lagoon Marsh Plain Condition Assessment. Prepared for the Monterey County Water Resources Agency. November. 13	Central Coast Wetlands Group 2015	
	Central Coast Wetlands Group at Moss Landing Marine Labs. 2015. Salinas River Lagoon Water Quality Summary. November. 8 pp.	Central Coast Wetlands Group 2015	
	Hagar Environmental Science. 2010. Salinas River Lagoon Breach Monitoring Report 2008-2009. Prepared for the Monterey County Water Resources Agency. July. 43 pp.	Hagar 2010	

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 8 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
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	Hagar Environmental Science. 2012. Salinas River Lagoon Monitoring Report 2011. Prepared for the Monterey County Water Resources Agency. February. 45 pp.	Hagar 2012	
	Hagar Environmental Science. 2013. Salinas River Lagoon Monitoring Report 2011. Prepared for the Monterey County Water Resources Agency. February. 53 pp.	Hagar 2013	
	Hagar Environmental Science. 2015. Salinas River Lagoon Monitoring Report 2014. Prepared for the Monterey County Water Resources Agency. June. 46 pp.	Hagar 2015	
	Hughes, B. B., M. D. Levey, J. A. Brown, M. C. Fountain, A. B. Carlisle, S. Y. Litvin, C. M. Greene, W. N. Heady and M. G. Gleason. 2014. Nursery Functions of U.S. West Coast Estuaries: The State of Knowledge for Juveniles of Focal Invertebrate and Fish Species. <u>The Nature Conservancy, Arlington, VA. 168pp.</u>	Hughes et al. 2014	
	Central Coast Watershed Studies (CCoWS). 2001. Winter Water Quality of the Carmel and Salinas River Lagoons, Monterey, California 2000/2001. The Watershed Institute, Earth Systems Science and Policy. <u>California State University, Monterey Bay</u>	CCoWS 2001	
	Central Coast Watershed Studies (CCoWS). 2002. Monitoring Chlorpyrifos & Diazinon in Impaired Surface Waters of the Lower Salinas Region: Status Report No. 1. The Watershed Institute, Earth Systems Science and Policy. <u>California State University, Monterey Bay</u>	CCoWS 2002	
	Central Coast Watershed Studies (CCoWS). 2004. Monitoring Chlorpyrifos and Diazinon in Impaired Surface Waters of the Lower Salinas Region The Watershed Institute, Earth Systems Science and Policy. <u>California State University, Monterey Bay</u>	CCoWS 2004	
	Monterey County Water Resources Agency (MCWRA). 2015. Lagoon Breaching Data.	MCWRA 2015	
	Monterey County Water Resources Agency (MCWRA). 2016. Lagoon Breaching Data.	MCWRA 2016	
	Monterey County Water Resources Agency (MCWRA). 2018. Salinas River Sandbar Management Activities Report. March. 4 pp.	MCWRA 2018	

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 9 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
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Salinas Valley Water Project (SVWP)			
	Monterey County Water Resources Agency (MCWRA). 2001. Salinas Valley Water Project Draft Environmental Impact Report/Environmental Impact Statement. January. 806 pp.	MCWRA 2001	Phase I
	Monterey County Water Resources Agency (MCWRA). 2007. Salinas Valley Water Project Addendum to Final Environmental Impact Report/Environmental Impact Statement. July. 18 pp.	MCWRA 2007	Phase I
	Montgomery Watson. 1998. Salinas Valley Historical Benefits Analysis (HBA); Final Report. April. 294 pp.	Montgomery Watson 1998	Phase I
	Ali Taghavi Associates. 2000. Update of the Historical Benefits Analysis (HBA) Hydrological Investigation in the Arroyo Seco Cone Area. Prepared for Monterey County Water Resources Agency. February. 169 pp.	ATA 2000	Phase I
	RMC Water and Environment. 2003. Salinas Valley Water Project Engineer's Report. Prepared for Monterey County Water Resources Agency. January. 55 pp.	RMC 2003	Phase I
	Monterey County Water Resources Agency (MCWRA). 2018. Draft Nacimiento Dam Operation Policy.	MCWRA 2018	Phase I
	Monterey County Water Resources Agency (MCWRA). 2014. 2014 Low Flow Adaptive Management Fisheries Monitoring Arroyo Seco River. October. 25 pp.	MCWRA 2014	Phase I - Fisheries Rpts
	Monterey County Water Resources Agency (MCWRA). 2014. Arroyo Seco and Nacimiento Rivers Index Reach Monitoring: Dive Count Surveys. October. 29 pp.	MCWRA 2014	Phase I - Fisheries Rpts
	Monterey County Water Resources Agency (MCWRA). 2014. Salinas Valley Water Project Annual Fisheries Report for 2013. May. 289 pp.	MCWRA 2014	Phase I - Fisheries Rpts
	FISHBIO. 2014. Salinas River Basin Adult Steelhead Escapement Monitoring. 2014 Annual Report prepared for the Monterey County Water Resources Agency. June. 18 pp.	FISHBIO 2014	Phase I - Fisheries Rpts
	FISHBIO. 2014. Salinas River Basin Juvenile O. mykiss Downstream Migration Monitoring. 2014 Annual Report prepared for the Monterey County Water Resources Agency. June. 21 pp.	FISHBIO 2014	Phase I - Fisheries Rpts

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 10 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	Monterey County Water Resources Agency (MCWRA). 2005. Salinas Valley Water Project Flow Prescription for Steelhead Trout in the Salinas River. October. 140 pp.	MCWRA 2005	Phase I - Flow Rpts
	Monterey County Water Resources Agency (MCWRA). 2014. <i>Salinas Valley Water Project Annual Flow Monitoring Report Operational Season 2013</i> . July. 139 pp.	MCWRA 2014	Phase I - Flow Rpts
	Monterey County Water Resources Agency (MCWRA). 2015. <i>Salinas Valley Water Project Annual Flow Monitoring Report Operational Season 2014</i> . August. 79 pp.	MCWRA 2015	Phase I - Flow Rpts
	Monterey County Water Resources Agency (MCWRA). 2016. <i>Salinas Valley Water Project Annual Flow Monitoring Report Operational Season 2015</i> . May. 80 pp.	MCWRA 2016	Phase I - Flow Rpts
	Monterey County Water Resources Agency (MCWRA). 2017. <i>Salinas Valley Water Project Annual Flow Monitoring Report Operational Season 2016</i> . September. 80 pp.	MCWRA 2017	Phase I - Flow Rpts
	Section 404 Permit to Discharge fill into Salinas River for the Salinas Valley Water Project	USACE 2007	Phase I - Permits
	Biological Opinion for South Central California Coast Steelhead affected by the Salinas Valley Water Project.	NMFS 2007	Phase I - Permits
	Water Quality Certification Number 32707WQ03 for the Salinas Valley Water Project, Monterey County	RWQCB 2007	Phase I - Permits
	Monterey County Water Resources Agency (MCWRA). Timeline of Events for the Salinas Valley Water Project. Graphic.	MCWRA	Phase II
	Monterey County Water Resources Agency (MCWRA). 2014. Notice of Preparation of an Environmental Impact Report and Public Scoping Meeting for the Salinas Valley Water Project.	MCWRA 2014	Phase II
	State Water Resources Control Board (SWRCB). 2013. Right to Divert Water Permit #11043. Permit Holder: Monterey County Water Resources Agency. September. 33 pp.		Phase II
Stream Maintenance Program			
	Salinas River Stream Maintenance Program Long-Term Effectiveness Assessment Plan. May. 14 pp.	MCWRA et al. 2017	
	Salinas River Stream Maintenance Program's River Management Unit Association Agreement. October. 13 pp.	Salinas River Stream Maintenance Program River Management Unit Association 2016	

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 11 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	Monterey County Water Resources Agency (MCWRA). 2016. User's Manual: A Field Guide for Operators and Participants for Pre-Maintenance and Post-Maintenance Activities. Salinas River Stream Maintenance Program River Management Units 1-7. September. 14 pp.	MCWRA 2014	
	U.S. Army Corps of Engineers. Department of the Army Regional General Permit 20 for the Salinas River Stream Maintenance Program. 2016. September. 8 pp.	USACE 2016	
	Monterey County Water Resources Agency (MCWRA). 2016. Biological Assessment for the Stream Maintenance Program.	MCWRA 2016	
	U.S. Fish & Wildlife Service (USFWS). 2016. Biological Opinion for the Salinas River Stream Maintenance Program, Monterey County, CA (2016-F-0319) (Corps File No, 22309S). August. 78 pp.	USFWS 2016	may affect LBV, Tidewater Goby and its critical habitat, and CRLF - not likely to affect SJKF, CTS, Monterey Spineflower and CH, and yellow billed cuckoo
	National Marine Fisheries Service (NMFS). 2016. Endangered Species Act Section 7(a)(2) Concurrence Letter and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Monterey County Water Resources Agency Stream Maintenance Program. Corps File #22309S.	NMFS 2016	
	Technically Conditioned Water Quality Certification Number 32716WQ02 for 2016-2025 Salinas River Stream Maintenance Program, Monterey County. August. 25 pp.	RWQCB 2016	
	California Department of Fish and Wildlife (CDFW). 2018. Amendment No. 3 of Lake or Streambed Alteration Agreement Notification No. 1600-2016-0016-R4 for the Salinas River Stream Maintenance Project-Monterey County. April. 3 pp.	CDFW 2018	
	Board of Directors Meeting Notes, 2011-2015	MCWRA 2011-2016	
	Monterey County Water Resources Agency (MCWRA). 2014. Salinas River Stream Maintenance Project Final Revised EIR Volume 1. June. 388	MCWRA 2014	SMP_EIR
	Monterey County Water Resources Agency (MCWRA). 2014. Salinas River Stream Maintenance Project Final Revised EIR Volume 2. June. 334	MCWRA 2014	SMP_EIR
	Appendices A through I	MCWRA 2014	SMP_EIR
	U.S. Army Corps of Engineers. Department of the Army Regional General Permit 10 for mechanized vegetation removal along sandbars of the Salinas River. 2003. August. 110 pp.	USACE 2003	Old Channel Maintenance Program 2003
	Technically Conditioned Water Quality Certification Number for Salinas River Channel Maintenance Program. November. 12 pp.	RWQCB 2002	Old Channel Maintenance Program 2003

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 12 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	U.S. Fish & Wildlife Service (USFWS). 2003. Biological Opinion for the Regional General Permit for Channel Maintenance of the Salinas River, Monterey County, CA. August. 20 pp.	USFWS 2003	Old Channel Maintenance Program 2003
	National Marine Fisheries Service (NMFS). 2003. Programmatic Biological Opinion for the Regional General Permit for Channel Maintenance of the Salinas River, Monterey County, CA. July. 45	NMFS 2003	Old Channel Maintenance Program 2003
WaterSMART Basin Plan			
	Bureau of Reclamation. 2017. <i>Plan of Study, Salinas and Carmel Rivers Basin Study</i> . January. 91 pp.	Bureau of Reclamation 2017	
Other Resources			
	Monterey County Water Resources Agency (MCWRA). 2017. <i>Proposed Strategies for Habitat Conservation Plan Development</i> . 20	MCWRA 2017	
	Monterey County Water Resources Agency (MCWRA). 1995. <i>Monterey County Water Resources Agency Act</i> . April. 37 pp.	MCWRA 1995	
	Kennedy and Jenks Consultants. 2017. <i>Storm Water Resource Plan for the Greater Salinas Area</i> . Final. Prepared for the Monterey Regional Water Pollution Control Agency. February. 121 pp.	Kennedy and Jenks 2017	
	California Department of Fish and Wildlife. 2016. <i>Aquatic Invasive Species Disinfection/Decontamination Protocols (Northern Region)</i> . Revised. February. 10 pp.	CDFW 2016	
	ICF. 2016. <i>Administrative Final OCTA M2 Natural Community Conservation Plan/Habitat Conservation Plan</i> . October. 440 pp.	ICF 2016	
	City of Santa Cruz Water Department. Coastal Watershed Council. County of Santa Cruz Water Resources Division. Resource Conservation District of Santa Cruz County. San Lorenzo Valley Water District. 2018. <i>San Lorenzo River Riparian Conservation Program</i> . May. 44 pp.	City of Santa Cruz et al. 2018	
Websites to Consider			
	http://www.greatermontereyirwmp.org/documents/disadvantaged-community-plan-for-drinking-water-and-wastewater/	GMCI RWMP	This link is for a report that was done specifically for disadvantaged communities in the Salinas Valley and groundwater [drinking water] quality
	https://www.arcgis.com/apps/View/index.html?appid=1aea37e5150c425f987bd7129ad40a53	GMCI RWMP	Monterey County Environment Health partnered and their data was used to generate the Greater Monterey County Water Tool
	http://www.ccamp.us/ca/view_data.php?org_id=rb3	Central Coast RWQCB	Central Coast Ambient Monitoring Program (CCAMP) which is the Central Coast Regional Water Quality Control Board's regionally scaled water quality monitoring and evaluation program

Salinas River Long-Term Management Plan Data Sources Tracking

Compiled by ICF

Last updated: July 20, 2018

Page 13 of 13

Category	Complete Reference	Citation	Summary of Contents and Other Notes
	https://gis.water.ca.gov/app/NCDataSetViewer/	CADWR	CA Dept. of Water Resources Natural Communities Mapping Tool based on Groundwater
	https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109225&inline	United States National Vegetation Classification System	USNVC Macrogroup vegetation communities used in State Wildlife Action Plan (2015), Appendix D
GIS Data			
	Shapefiles of the SMP RMUs	MCWRA	Shapefiles of Stream Maintenance Program River Management Units
	Shapefiles of MCWRA facilities	MCWRA	

Salinas Long-Term Management Plan (LTMP)

DRAFT Opportunities and Constraints

Drafted by ICF with Review from Monterey County Water Resources Agency

Last updated: July 24, 2018

Constraints:

- **Grant funding timeline.** The grant supporting development of the LTMP has a deadline of December 31, 2018.
- **Future funding.** Future funding for revisions to the LTMP has not yet been identified.
- **Law and regulations.** Various regulatory permits will be required to implement LTMP management actions that would affect specific resources including waters of the U.S., waters of the state and associated riparian habitat, state and federal listed species, coastal resources.
 - Federal Clean Water Act, Sections 404 (dredge and fill), 402 (National Pollutant Discharge Elimination System), and 401 (water quality certification)
 - Federal Rivers and Harbors Act, Section 10 (navigable waters)
 - Federal Endangered Species Act
 - Migratory Bird Treaty Act
 - National Environmental Policy Act
 - National Historic Preservation Act
 - California Porter-Cologne Water Quality Control Act
 - California Lake or Streambed Alteration Agreement
 - California Endangered Species Act
 - California Environmental Quality Act
 - California Coastal Act
- **Landownership.** Almost all land along the river is private, which is challenging for management implementation.
- **Existing commitments.** Existing commitments (e.g., water rights, permits, agreements) may create constraints around how resources are managed.
- **Others?**

Opportunities:

- **Support.** Past listening exercises by the Monterey County Water Resources Agency (Agency) and the current Issues Assessment by Consensus Building Institute show that most stakeholders believe a comprehensive management solution for the Salinas River is needed. No major issues against the LTMP were identified at the first public meeting on June 20, 2018.
- **Active Participation.** Approximately 40 people attended the June 20, 2018 public meeting.
- **Available Data.** There is a strong body of past and ongoing research, permits, and management plans from which to draw guidance and recommendations.
- **Need.** The Agency needs a habitat conservation plan (HCP) to comply with the federal Endangered Species Act and the Agency has time to develop a thoughtful conservation strategy for species that meets regulatory needs while also working for landowners/growers.
- **Funding.** A comprehensive approach to management planning will make the LTMP competitive for federal and state grants to support implementation.
- **Momentum.** Development of the LTMP is the next step in a process to establish a comprehensive solution to management challenges on the Salinas River and lagoon.
- **Others?**