Planning Study Recommendations for San Diego IRWM Program

Planning Study	Objective	#	Recommendation Action	Potential Responsible Party
Regulatory Workgroup Report[1]	Improve communication between IRWM Program and RWQCB	R-1	Assign IRWM liaison to RWQCB	• Tri-County FACC?
		R-2	Provide periodic IRWM progress reports to RWQCB	• RWMG? Tri-County FACC?
	Ensure consistency between IRWM Plan and RWQCB Practical Vision	R-3	Monitor development of RWQCB Practical Vision	•
		R-4	Incorporate priority themes from RWQCB Practical Vision into IRWM Plan	•
		R-5	Coordinate with RWQCB for consistency in IRWM Plan and Practical Vision	•
	Identify science-based Basin Plan modifications that may warrant higher priority than provided in 2011 triennial review	R-6	Convene IRWM stakeholders to (1) review Basin Plan review priorities, resources, and schedules, (2) identify additional priorities of interest to IRWM stakeholders, (3) determine IRWM stakeholder interest in supporting RWQCB to address additional priorities	•
		R-7	Convene workshop with RWQCB and IRWM stakeholders to discuss priorities identified by IRWM stakeholders	•
	Identify research, data collection, data management, data assessment, and resources required to support RWQCB's process for science-based evaluation of the prioritized Basin Plan objectives	R-8	Convene workshop with RWQCB and IRWM stakeholders to discuss research, data collection, management and assessment, and resources required to address objectives that warrant scientific update or development of site-specific objectives	•
	Identify existing 303(d) listings that may warrant reevaluation or reclassification	R-9	Convene IRWM stakeholders to (1) review 303(d) listings of the Region's reservoirs, (2) identify 303(d) listings of reservoirs that may warrant reevaluation or reclassification, (3) determine IRWM interest in supporting RWQCB reassessment or reclassification of 303(d) reservoir listings of concern	• Water Authority?
		R-10	Convene workshop with RWQCB and IRWM stakeholders to discuss 303(d) waters that may warrant reevaluation or reclassification to better support IRWM goals and Practical Vision priorities	•

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[1] Recommendations not prioritized

Planning Study	Objective	#	Recommendation Action	Potential Responsible Party
Regulatory Workgroup Report[2]	Identify projects or actions that could improve water quality of 303(d) listed waters and attain water quality objectives	R-11	Convene workshop with RWQCB and IRWM stakeholders to identify (1) projects that could improve water quality of 303(d) waters and (2) alternate means to traditional TMDLS to achieve water quality objectives	•
	Identify research, data collection, data management, data assessment, and resources required to support the RWQCB's process for science-based evaluation of the prioritized 303(d) listings	R-12	Convene workshop with RWQCB and IRWM stakeholders to discuss data collection, management, and assessment, and required resources to reevaluate or reclassify 303(d) listings	•
	Develop and maintain a list of wetlands and riparian habitat restoration needs and opportunities	R-13	Convene regulators and IRWM stakeholders to discuss (1) means of identifying, coordinating, and prioritizing restoration needs and opportunities and (2) potential action plan for developing and maintaining habitat restoration needs and opportunities priorities list	•
	Evaluate potential opportunities for coordination of RWQCB SEP process and other compensatory mitigation programs to support and promote habitat restoration and recovery	R-14	Convene meeting with RWQCB to assess means for coordinating IRWM Program support with RWQWCB SEP process and other mitigation programs	•
Land Use Planning Study[3]	Support or facilitate collaborative preparation of various joint water resources and land use planning efforts and work in the Region	L-1	Distribute model water resources policies for use by municipalities	• RWMG?
		L-2	Prepare model grey water ordinance	•
		L-3	Prepare guidelines for distribution outside agencies to encourage "watershed friendly" design, construction, and maintenance of development	•
		L-4	Prepare information sheets on potential water resource impacts of various land uses for land use planners to refer when evaluating proposals	•
		L-5	Prepare model sustainable landscape guidelines	• Grant project - Prop 84-1 LPS?

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[2] Recommendations not prioritized
[3] Recommendations prioritized within each objective

Planning Study	Objective	#	Recommendation Action	Potential Responsible Party
Land Use Planning Study[4]	Support or facilitate collaborative preparation of various joint water resources and land use planning efforts and work in the Region	L-6	Incorporate broader range of water resources goals which support IRWM Plan into SANDAG's Regional Comprehensive Plan	●
		L-7	Prepare model stormwater management ordinance	●
		L-8	Prepare model guidelines for green infrastructure for public agencies and for private development	●
		L-9	Prepare conservation or resource management plans/guidelines for community and backyard gardens	●
		L-10	Coordinate BMPS in municipal codes when water agency is not the municipality	●
		L-11	Prepare conservation or resource management plans/guidelines for agricultural operations	●
		L-12	Prepare model green building standards	●
	Provide opportunities for information sharing, regular communication, and meaningful collaboration for water resources and land use managers	L-13	Create GIS-based Resource Guide of all agencies, organizations, and stakeholders responsible for or involved in water management and land use planning for region. Host Guide on IRWM website. See study for details on what Guide would contain.	● RWMG?
		L-14	Expand SANDAG's emphasis on smart growth to encompass strategies that improve reliability and quality of water resources	●
		L-15	Build relationships and share information through workshops, webinars, lunch sessions, etc. hosted by various professional associations (AEP, APA, APWA, etc.) Informal "meet & greet" preceding each event.	●
		L-16	Provide annual forum on topics of mutual interest and importance to water resources and land use agencies	●
		L-17	Develop meeting template that includes all entities involved in land use planning and water resource planning and management for each jurisdiction.	●
		L-18	Utilize existing groups to disseminate key information and support integrated approach to water resources management and land use decision making	●
		L-19	Include examples of viable land use practices that can improve reliability and quality of water resources on IRWM website	●

[4] Recommendations prioritized within each objective

Planning Study	Objective	#	Recommendation Action	Potential Responsible Party
Land Use Planning Study[5]	Provide opportunities for information sharing, regular communication, and meaningful collaboration for water resources and land use managers	L-20	Develop a guide for engaging tribal nations in land use planning and water management	•
		L-21	Utilize social media, pertinent websites, etc. to share key information with officials, planners, and water resources managers	•
Climate Change Planning Study[6]	Use of adaptive management	C-1	Encourage consideration of DWR's *Climate Change Handbook* recommendations on developing adaptive management plans: 1) Identify risk triggers 2) Quantify impacts and uncertainties 3) Evaluate strategies and define flexible implementation paths 4) Monitor performance and critical variables 5) Implement or reevaluate strategies when triggers are reached	•
	Include recommended objectives and targets in the Plan	C-2	Objective: Effectively address climate change through adaptation and mitigation in water resource management	• Incorporated
		C-3	Target 1: Encourage development of cost-effective carbon-efficient strategies for water management projects	• Incorporated
		C-4	Target 2: Incorporate adaptation strategies to respond to sea-level rise, rainfall variability, and temperature variability in planning for water and wastewater management	• Incorporated
		C-5	Target 3: Reduce or neutralize GHG emissions in all areas of water resource management	• Incorporated
Integrated Flood Management Planning Study[7]	Increase regional floodplain manager and agency collaboration	F-1	Develop framework and process for different level of communication for floodplain managers	•
		F-2	Engage watershed stakeholders in workshop forum which brings together the regulators and floodplain managers to discuss different competing watershed issues (1) roadblocks to flood management, (2) regulatory constraints	•
		F-3	Provide basis for regional working forum of floodplain managers that allows increased collaboration and future regular meetings	•

[5] Recommendations prioritized within each objective
[6] Recommendations not prioritized
[7] Recommendations not prioritized

Planning Study	Objective	#	Recommendation Action	Potential Responsible Party
Integrated Flood Management Planning Study[8]	Increase regional floodplain manager and agency collaboration	F-4	Promote communication across jurisdictional boundaries and within watershed	●
	Improve understanding of regional flood risks	F-5	Develop understanding of the different types of flooding from both regional level, watershed level, and local level included specific flood problems for the different areas.	●
		F-6	Provide methodology to define the magnitude of flood risks in order to better prioritize the level of flood risk which integrates potential flood damage	●
		F-7	Review common recurring flood damage losses	●
	Develop watershed database to assist in flood management planning	F-8	Collect and compile watershed mapping information related to flood hazards and watershed information in a GIS format, as well as developing a schema for managing the data to benefit future watershed planning	●
	Identify common agency flood management issues and constraints	F-9	Develop background from stakeholder information on the common problems implementing flood hazard mitigation projects and the different constraints.	●
	Define different watershed flood management goals	F-10	Develop understanding of the different priority goals of the watershed stakeholders based on the common recurring flooding issues/problems/hazards	●
	Initiate understanding and awareness of "integrated flood management" (IFM)	F-11	Prepare educational material and information on background of IFM to encourage better understanding of the required thought process	●
		F-12	Provide examples of IFM projects to assist in understanding how to apply and the basis of the key planning principles which are different from conventional watershed planning	●
	Identify applicable IFM strategies on global and watershed basis	F-13	Define common types of IFM strategies which integrate different planning principles through different scales (1) watershed level, (2) city level, and (3) neighborhood/local level	●
		F-14	Develop background on specific types of "opportunities" within the watershed that facilitate the application of IFM	●
		F-15	Develop regional mapping of both opportunities and constraints related to flood management	●

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[8] Recommendations not prioritized

Planning Study	Objective	#	Recommendation Action	Potential Responsible Party
Integrated Flood Management Planning Study[9]	Develop watershed planning guidance program implementing IFM	F-16	Develop watershed planning process framework with key planning principles for implementing IFM that focuses on linking sustainability, water resource management, and land use planning to flood management and the entire hydrologic cycle.	•
		F-17	Prepare guidance on integrating "land use planning" as central element of IFM and define how it can be utilized for different type of floodplain hazards issues	•
		F-18	Develop overall guidance document that provides stakeholders the basis for watershed planning with IFM	•
	Create watershed planning tools to facilitate IFM project development	F-19	Develop a specialized GIS based tool which assists in the defining locations of IFM projects at a regional scale and can provide maximum multiple benefits and provides method for prioritizing flood management projects	•

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[9] Recommendations not prioritized