

## 5. REGIONAL PRIORITIES

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*This section describes the identification process of regional priorities, illustrates the short-term and long-term implementation priorities for the ARB IRWMP and the process for modifying those priorities.*

### 5.1. Identification of Regional Priorities

Previous planning efforts and other regional activities (see **Section 1**) have generated numerous projects and programs (existing and potential), as shown in **Table 4.2**. In order to properly prioritize these projects and programs, the ARB IRWMP participants developed a prioritization process (process). The process consists of three types of evaluation criteria; 1) Regional Priorities, 2) Statewide Priorities, and 3) IRWMP Program Preferences. One “point” is awarded to a project/program for each criterion it addresses. This process is designed to reward those projects/programs with multiple benefits. Therefore, these evaluation criteria are the primary method for ranking projects/programs. Other considerations were given to projects based on their readiness to proceed, their ability to meet Proposition 50 Implementation funding criteria (a capital improvement or asset, with multiple regional benefits, as opposed to a single beneficiary project, a study or scientific effort), and whether or not the project/program is seeking Proposition 50 Grant funding. **Table 5.1** is the result of the prioritization process.

#### **Regional Priorities**

The following are deemed priorities of the region. The majority of these priorities are water management strategies that were discussed in **Section 4** (\* denotes the water management strategies):

1. Water Supply Reliability \*
2. Groundwater Management \*
3. Water Quality Protection and Improvement \*
4. Ecosystem Restoration \*
5. Conjunctive Use \*
6. Environmental and Habitat Protection and Improvement \*
7. Storm Water Management \*
8. Flood Management \*
9. Water Recycling \*
10. Water Conservation \*
11. Water and Wastewater Treatment \*

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12. Wetlands Enhancement and Creation \*
13. Recreation and Public Access \*
14. NPS Pollution Control \*
15. Watershed Planning \*
16. Land Use Planning \*
17. Creating Linkages to Regional Infrastructure
18. Includes Regional Partners

**Statewide Priorities**

The following are priorities of the state, but have regional significance as well. A more thorough discussion of how the ARB IRWMP meets the various Statewide Priorities can be found in **Section 11** (Statewide Priorities):

19. Reduce Conflicts Between Water Users and Resolve Water Rights Disputes
20. Implementation of Total Maximum Daily Loads (TMDLs) that are Established or Under Development
21. Assist in Meeting Delta Water Quality Objectives
22. Implementation of Recommendations of the Floodplain Management Task Force, Recycling Task Force, State Species Recovery Plan
23. Assist in achieving One or More Goals of the CALFED Bay-Delta Program

**IRWMP Program Preferences**

The following are IRWMP Program Preferences as outlined in the Integrated Regional Water Management Grant Program Guidelines, 2004 (Guidelines):

24. Integrated Projects with Multiple Benefits
25. Support and Improve Local and Regional Water Supply Reliability
26. Contribute Expeditiously and Measurably to the Long-Term Attainment and Maintenance of Water Quality Standards
27. Eliminate or Significantly Reduce Pollution in Impaired Waters and Sensitive Habitat Areas, including Areas of Special Biological Significance
28. Safe Drinking Water and Water Quality Projects that Serve Disadvantaged Communities













## **5.1.1. Regional Priorities**

### **5.1.1.1. Water Supply Reliability**

Threats to existing water supply, increased demands, and other changes to the ARB have brought the need to seek a reliable water supply. Expanding water treatment plant capacity, drilling or rehabilitating groundwater wells, recharging the groundwater basin, installing new transmission lines, and using recycled water are all methods of making the ARB's water supply more reliable. Projects such as the Freeport Regional Water Project, SRCSD Water Recycling Betterment and Expansion Project, and Woodcreek North Aquifer Storage and Recovery Project aid in water supply reliability.

### **5.1.1.2. Groundwater Management**

Projects/programs that can maintain or improve groundwater quality in the ARB, maintain groundwater elevations, help eliminate subsidence, or protect against adverse impacts to surface water flows in the American, Cosumnes, and Sacramento Rivers are considered to meet groundwater management objectives. Groundwater Management Plans (GMPs), groundwater extraction wells, aquifer storage and recovery (ASR) wells, and measuring and monitoring programs are good examples of groundwater management projects/programs.

### **5.1.1.3. Water Quality Protection and Improvement**

As the risk of contamination to the ARB water supply increases due to contaminant plumes or other threats, water quality protection and improvement becomes more and more important. Programs designed to monitor pollutant migration, stormwater quality, and other contaminants are crucial to maintaining high quality water, as are projects designed to improve water and wastewater treatment.

### **5.1.1.4. Ecosystem Restoration**

The WFA recognizes ecosystem restoration as an important goal of the ARB. Projects/programs that preserve and enhance the regions ecosystems such as vernal pool, non-vernal pool wetland, riparian, oak woodland, grassland and agricultural habitats, like the Gardenland Flood Management, Habitat Restoration, and Recreation Project and the Sunrise Side-Channel Enhancement Project help meet ecosystem restoration goals.

#### **5.1.1.5. Conjunctive Use**

Projects/programs that allow surface and groundwater to be used “conjunctively” are considered extremely important to this region as it is the backbone of the WFA as discussed in **Section 1.2.1**. During “wet” rainfall years it is advantageous to utilize plentiful surface water supplies in order to allow the groundwater basin to naturally recharge. Conversely, it is just as important to be able to utilize groundwater during “dry” or “critically dry” hydrologic periods in order to keep much needed surface water in the rivers for fish and other habitat. This operational flexibility cannot happen without new infrastructure projects/programs such as water treatment plant expansions, transmission main installations, and new groundwater wells.

#### **5.1.1.6. Environmental and Habitat Protection and Improvement**

Preserving and improving habitat is of great regional importance. The WFA outlined how to manage American River diversions during times of limited supply in order to maximize flows for fish habitat. Many projects outlined in **Table 5.1** are designed to improve the environment and aquatic, riparian, and terrestrial habitats. The Freeport Regional Water Project is designed to improve conditions through the American River for fish and other riparian habitat. The TNC River Management and Conjunctive Management Opportunities of the Cosumnes River Project is designed to improve habitat conditions along the Cosumnes River.

#### **5.1.1.7. Stormwater Management**

Managing stormwater ties directly to river water quality. Surface water quality is vital to the region as it is a significant source of water supply, but more importantly it connects to riparian habitats. Projects/programs that contribute to the protection of river water quality are considered to be, like the County of Sacramento Low Flow Drainage Project and the various Stormwater Quality Programs are considered to properly manage stormwater.

#### **5.1.1.8. Flood Management**

The ARB has seen numerous flood events, with the most recent occurring in 1997. Existing flood control systems have proven to work well, however regional infrastructure is aging and as the region continues to grow, there will be new and ever increasing flood threats. Currently, the Sacramento region has the lowest level of flood protection of any major U.S. metropolitan area, as it does not have 200-year flood protection. Projects and programs that help increase the ARB’s level of flood protection, such as the

Folsom Dam Mini Raise, the East Bank Levee Widening Project, and the Gardenland Flood Management, Habitat Restoration, and Recreation Project are considered to assist in flood management.

#### **5.1.1.9. Water Recycling**

As the region continues to grow, new sources of water supply will be necessary. An excellent source of water supply is recycled water. Recycled water can be used for non-potable irrigation and is often a suitable substitute to groundwater pumping for agricultural purposes. Recycled water supply is not dependent on rainfall conditions which make it a “drought-proof” water supply. The ARB has already begun utilizing recycled water through various recycled water programs (e.g. SRCSD, City of Roseville, City of Lincoln, and EID), and it will continue to expand its usage of recycled water in the future. Projects/programs such as SRCSD Water Recycling Betterment and Expansion Project and the Lincoln Recycled Water Distribution System Expansion - Southwest Placer County are excellent examples of expanded water recycling programs.

#### **5.1.1.10. Water Conservation**

Conserving water has always been a prime concern of the region and its importance will continue to grow as the region expands. Best Management Practices (BMPs) were developed during the Water Forum Process and are monitored through the Successor Effort to ensure that water purveyors were using water as efficiently as possible. Metering retrofit programs have begun within the ARB to help the public understand the importance of water conservation. RWA’s Water Efficiency Program (WEP) is a region-wide conservation program involving over 20 water utilities to assist purveyors with meeting BMP commitments, including conducting public outreach, school education, and training services for water and industry professionals. Projects that aid in achieving the goals set forth in the BMPs are considered essential to water conservation efforts.

#### **5.1.1.11. Water and Wastewater Treatment**

As there are numerous agencies and water users within the ARB, there are numerous water and wastewater treatment facilities. Treating water to the highest quality has always been a focus of the ARB. Potential water treatment projects like the Freeport Regional Water Project, the City of Roseville Water Treatment Plant Expansion Project, and the SRCSD Water Recycling Betterment and Expansion Project will all use state of the art technology to protect public health.

**5.1.1.12. Wetlands Enhancement and Creation**

Wetlands are a valuable resource to the ARB, as they provide habitat for critical species. Creating and improving wetlands in the ARB has been accomplished through programs such as the Stone Lake Wildlife refuge and will continue through projects like the Steelhead Creek Wetland Improvement Project and the TNC River Management and Conjunctive Management Opportunities of the Cosumnes River. Those projects/programs that provide additional water supply to wetlands are also considered to create and enhance wetlands

**5.1.1.13. Recreation and Public Access**

Public access to parks, fishing, rafting, biking trails, and other means of recreation have always been of value to the ARB and will continue to be in the future. The WFA was established to protect the region's recreational features and organizations like the American River Parkway also work diligently to protect these resources. Projects/programs that maintain or improve flow conditions in rivers, restore riparian habitat, or protect river water quality, such as the Gardenland Flood Management, Habitat Restoration, and Recreation Project help achieve recreation and public access goals.

**5.1.1.14. NPS Pollution Control**

Maintaining and improving water quality in rivers, lakes and streams is imperative in the ARB. An integral method for maintaining water quality is through non-point source (NPS) pollution control. Various stormwater pollution prevention plans have already been established to help mitigate against NPS pollution. Proposed projects like the Gardenland Flood Management, Habitat Restoration, and Recreation Project and the County of Sacramento Low Flow Drainage Project will further NPS pollution control progress.

**5.1.1.15. Watershed Planning**

Watershed planning has been a valuable part of the ARB for many years. The WFA and the ARBCA process both considered protection and improvement of the watershed to be beneficial. Proper watershed planning will ensure that the ARB's water supply will be preserved in the future. The Cosumnes, American, Bear, and Yuba (CABY) Watershed Group is currently conducting watershed protection planning sessions as part of their Watershed Protection Plan. The ARB is participating in these sessions to ensure coordination between the lower and upper American River and Cosumnes River watersheds.

**5.1.1.16. Land Use Planning**

Land use planning is an essential power and responsibility for incorporated municipalities who use general plans to achieve community land planning objectives. Land use planning information was vital to the WFA as it impacts water demands within the region. Therefore, the ARB IRWMP participants will continue to be involved in and coordinate with land use planning agencies, such as SACOG to ensure that regional water demands do not exceed regional water supplies.

**5.1.1.17. Creating Linkages to Regional Infrastructure**

Linking projects/programs to regional infrastructure is more effective and efficient than isolated projects/programs without linkages. The ability to connect facilities creates operational flexibility, allows agencies to pool resources, and helps to eliminate redundancy. The ARB has already implemented numerous projects/programs that link to regional infrastructure and it will continue to do so in the future.

**5.1.1.18. Includes Regional Partners**

Projects/programs that involve regional partnerships are favorable in the ARB. The success of this region has been directly related to operating with regional interests in mind, rather than just local interests. Partnerships have allowed the region to operate efficiently and effectively.

**5.1.2. Statewide Priorities**

**5.1.2.1. Reduce Conflicts between Water Users and Resolve Water Rights Disputes**

Often times when agencies work in isolation to achieve their goals, conflicts and disputes with others arise. The IRWM Program seeks to reduce conflicts between water users and resolve water rights disputes by encouraging an integrated process involving multiple stakeholders. Projects and programs in the ARB IRWMP that reduce and resolve these conflicts and disputes received a point in that criterion in the prioritization process. A project that exemplifies this criterion is the FRWA Project because it provides surface water to areas that would have used groundwater, thereby maintaining groundwater elevations for private pumpers.

**5.1.2.2. Implementation of TMDLs that are Established or Under Development**

The Sacramento and American Rivers both have TMDLs established. Projects and programs must be in compliance with standards. Those projects and programs that implement these TMDLs received a point under this criterion in the prioritization process. Examples of the projects under this category are the

Recycled Water Projects for SRCSD. They will meet TMDLs if they treat their effluent for recycled water uses rather than discharging effluent to the Sacramento River, which has a TMDL for mercury.

**5.1.2.3. Assist in Meeting Delta Water Quality Objectives**

The State has established Delta water quality objectives for chloride, conductivity, dissolved oxygen and flow into and out of the Delta. Projects that assist in meeting those objectives were given a point if this criterion. An example of a project is the County of Sacramento's Low Flow Drainage Project, which seeks to divert and treat urban runoff before discharge into the Lower American River, thereby delivering higher quality water to the Delta.

**5.1.2.4. Implementation of Recommendations of the Floodplain Management Task Force, Recycling Task Force, State Species Recovery Plan**

The State has a number of task forces – the Floodplain Management Task Force and the Water Recycling Task Force – which focus on various aspects of water resource management. Additionally, the State supports the species recovery plans for endangered and threatened species in the state of California. The ARB IRWMP projects that implement the objectives of those task forces and/or recovery plan received a point in that criterion. An example of projects that meet the objectives of the Floodplain Management Task Force and the State Species Recovery Plan is the Gardenland Flood Management, Habitat Restoration, and Recreation Project and the TNC River Management and Conjunctive Management Opportunities of the Cosumnes River.

**5.1.2.5. Assist in achieving One or More Goals of the CALFED Bay-Delta Program**

The goals of the CALFED Bay-Delta Program that are met by projects and program of the ARB IRWMP include water supply reliability, water quality, and ecosystem restoration. Projects and programs that met one or more of these goals received a point in this criterion in the prioritization process. One of the many examples of projects and programs that meet this criterion is the Roseville Water Treatment Plant Expansion, which will improve water supply reliability for the City of Roseville.

### **5.1.3. IRWM Program Preferences**

#### **5.1.3.1. Integrated Projects with Multiple Benefits**

Most, if not all, of the projects and programs included in the ARB IRWMP are integrated and provide multiple benefits. Projects and programs that met this criterion were given a point in the prioritization process. One of the many examples of this criterion is the Rosemont Conjunctive Use Pipeline. This project replaces California-American Water Company's groundwater supplies that have been lost due to industrial contamination, with City of Sacramento's surface water deliveries. This project also allows the City of Sacramento to more fully utilize its surface water rights and reduces groundwater pumping in portions of the region that have groundwater cones of depression.

#### **5.1.3.2. Support and Improve Local and Regional Water Supply Reliability**

Many of the projects and programs included in the ARB IRWMP support and improve local and regional water supply reliability. Those projects and programs that do, received a point in the prioritization process. An example project that met this criterion is SSWD's Groundwater Production Well Project. This project replaces existing groundwater extraction wells that are threatened by contamination and will provide injection capability for additional groundwater storage during off-peak periods.

#### **5.1.3.3. Contribute Expeditiously and Measurably to the Long-Term Attainment and Maintenance of Water Quality Standards**

Many of the projects and programs included in the ARB IRWMP contribute expeditiously and measurably to the long-term attainment and maintenance of water quality standards. Those projects and programs that meet this criterion were given a point in the prioritization process. An example of a project is the Bajamont Water Treatment Plant Expansion, which will replace contaminated groundwater supplies with treated surface water.

#### **5.1.3.4. Eliminate or Significantly Reduce Pollution in Impaired Waters and Sensitive Habitat Areas, including Areas of Special Biological Significance**

Projects and programs included in the ARB IRWMP that eliminate or significantly reduce pollution in the impaired water and sensitive habitat areas were given a point in the prioritization process. An example of a project that met this criterion is the Gardenland Flood Management, Habitat Restoration, and Recreation Project. This project provides an opportunity to restore a site near the American River and eliminate the

on-going potential for sedimentation and water pollution from on-site storage of soil and debris of unknown origin.

#### **5.1.3.5. Safe Drinking Water and Water Quality Projects that Serve Disadvantaged Communities**

Many of the ARB IRWMP projects and programs seek to provide safe drinking water and enhance water quality in the region. Some disadvantaged communities within the region (**Figure 2.4**) will benefit from those projects and programs. Those projects and programs that do benefit disadvantaged communities received a point in the prioritization process. An example of this is the SSWD Groundwater Production Well Project, which will replace groundwater supplies threatened by contamination and serve communities which are classified as disadvantaged.

## **5.2. Priorities for Implementation**

Prioritizing the projects/programs based on the above criteria highlights the benefits that each project/program can provide to the region. However, the criteria do not indicate project priority for implementation. The prioritization process in **Table 5.1** includes columns to describe each project/program's "Implementation Priority". A project/program's implementation priority is related to the "Timeframe for Project/Program Operation" column in **Table 5.1**. Those projects/programs that fall under the "Existing" timeframe are projects/programs that were operational by June 2006. These "Existing" projects/programs do not need to be implemented, but they are considered to still be a priority of the region therefore, they are labeled as "Ongoing Activities". Projects/programs that have yet to be implemented are labeled as either "Short-Term" or "Long-Term" Priorities.

### **5.2.1. Short-Term Priorities for Implementation**

In order for a project/program to be considered as a short-term priority, it must be included in the Prioritization Table and scored. Projects/programs with scores near the top are considered to be preferential, but not necessarily a short-term priority. What makes a project/program become a short-term priority is its readiness to proceed. A project/program that is anticipated to become operational in the "Near-Future" timeframe (operational by December of 2008) is a short-term priority.

Projects seeking Proposition 50 Implementation, Step 1 Grant funding (Prop. 50 funding) are all considered short-term priorities. Not all short-term priority projects could apply for Prop. 50 funding, so a process was developed to determine which projects/programs would seek Prop. 50 funding. **Figure 5.1**

outlines this process. The process first filters out those projects/programs that are not eligible for Prop. 50 funds, according to the Program Guidelines. The projects that remain after this filter are listed in **Table 5.2**. Projects/programs that are not “ready to go” are the next to be filtered (**Table 5.3**). These are projects/programs that have not been budgeted in capital improvement programs or do not have identified sources of local funding or have not begun preliminary design or environmental documentation process. The final screen filters those projects/programs that are not seeking Round 1 Prop. 50 funding. **Table 5.4** contains the final list of projects requesting Prop. 50 funding (see **Figure 5.2** for a project location map).

### **5.3. Long-Term Priorities for Implementation**

Similar to the short-term priority process, in order for a project/program to be considered as a long-term priority, it must be included in the Prioritization Table and scored. What makes a project/program become a long-term priority is its readiness to proceed. A project/program that is anticipated to become operational in the “Far-Future” timeframe (operational after December of 2008) is a long-term priority.

### **5.4. Process for Priority Modification**

Short-term and long-term priorities may be modified in the future as the region changes. Following the implementation of each project, impacts and benefits will be assessed and compared with what was initially expected. The monitoring and performance measurement program (see **Section 8**) is designed to consistently assess program and project performance. In this manner, performance of early projects may affect prioritization of subsequent projects.

In addition to post-implementation analysis, continued (and expanded) water quality monitoring and updated local planning documents and regional information will be considered as they impact regional priorities. For instance, migration of the Aerojet contaminant plume under the American River in Carmichael forced the abandonment of groundwater wells within Carmichael Water District. Groundwater monitoring efforts continue to track the migration of the plume, causing expansion of Carmichael’s water treatment plant to become a higher priority resulting in an adjustment of project/program sequencing. As priorities are modified, the ARB IRWMP will be updated to document the regional changes that prompted the modifications. Subsequent versions of the ARB IRWMP will undergo the same rigorous review process as this initial version.

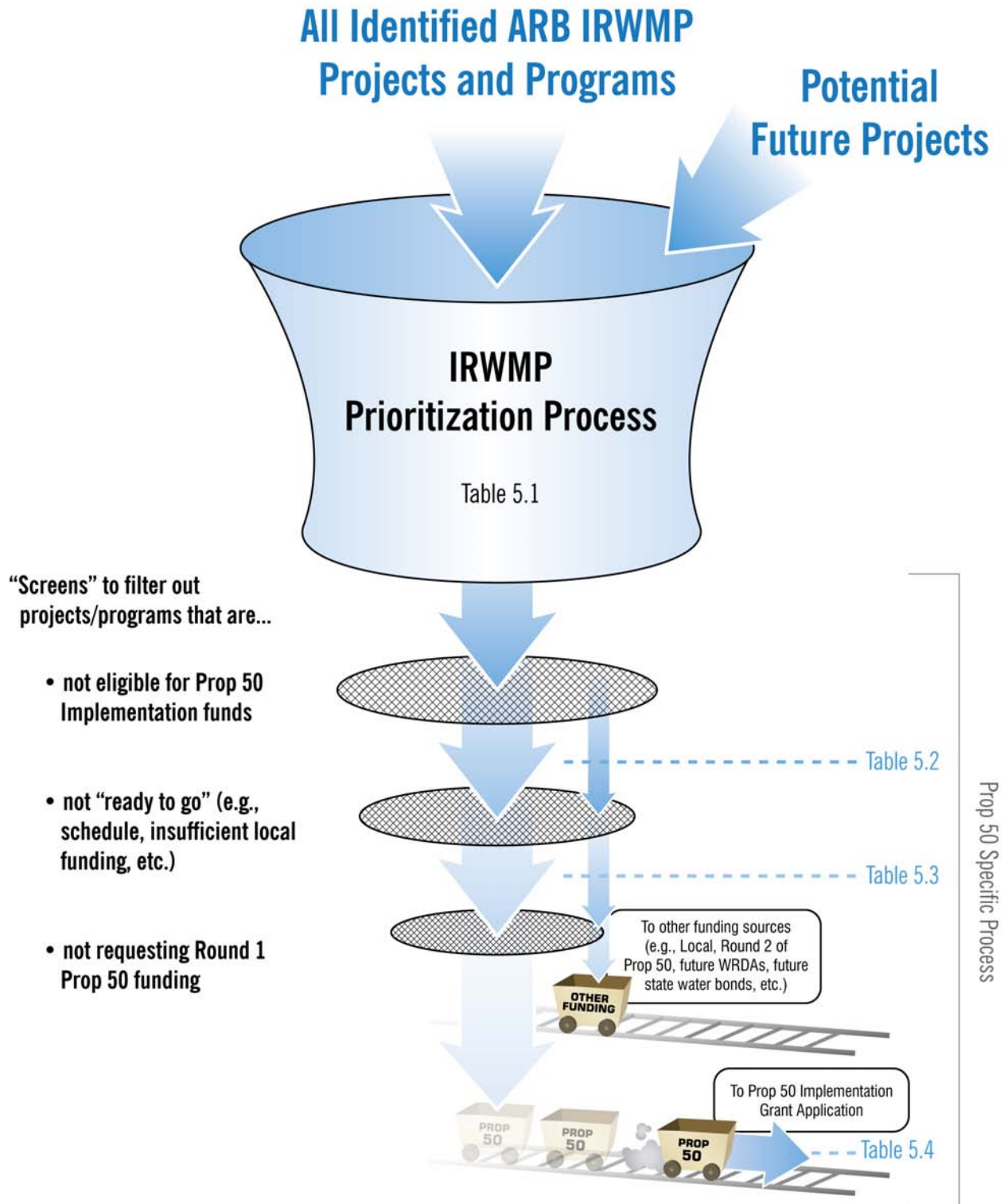


Figure 5.1 Screening Process for Proposition 50 Implementation Grant Projects

Table 5.2 ARB IRWMP Projects and Programs Eligible for Proposition 50 Funding

Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
Recycled Water Program Expansion	City of Roseville	Water Recycling	Ongoing implementation. Completion of expansions anticipated in 2015.
Environmental/Community Organization Interests and Activities	Various organizations	Ecosystem Restoration	Ongoing implementation. Updates as necessary.
Freeport Regional Water Project	FRWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Gardenland Flood Management, Habitat Restoration, and Recreation Project	SAFCA	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2011.
SRCSD Water Recycling Betterment and Expansion Project (Phase II Project & Bartley Cavanaugh Golf Course)	SRCSD, City of Sacramento	Water Recycling	Ongoing project effort. SRCSD's two Step 1 projects have been consolidated into one Step 2 project. Construction completion anticipated in 2009.
SRCSD Water Recycling Project (Phase I Project)	SRCSD, City of Sacramento	Water Recycling	Construction completed in 2004. Project operating.
Dry Creek Project	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
SRWRS Elverta Diversion	Various water purveyors and agencies/organizations	Water Supply	Construction completion in 2012 depends on completion of study (separate entry).
Groundwater Production Well Project	SSWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Eastern Sacramento County Replacement Water Supply Project	SCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Pleasant Grove Wastewater Treatment Plant Expansion	City of Roseville	Water Recycling	Ongoing project effort. Construction completion anticipated in 2008.
Regional Water Authority American River Basin Conjunctive Use Program (ARBCUP)	Participating Water Purveyors	Other	Completion of construction of individual components began in 2003. Operational. All components anticipated to be operational in 2007.
SRCSD Recycled Water Program Expansion - Delta Shores	SRCSD, City of Sacramento	Water Recycling	Ongoing project effort. Construction completion anticipated in 2008.
Rosemont Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
Woodcreek North Aquifer Storage and Recovery Project	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
Bajamont Water Treatment Plant Expansion	CWD	Water Quality	Ongoing project effort. Construction completion anticipated in 2007.
Roseville Water Treatment Plant Expansion	City of Roseville	Water Quality	Ongoing project effort. Construction completion anticipated in 2008.
TNC River Management and Conjunctive Management Opportunities of the Cosumnes River	TNC	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2009.
Vineyard Avenue Pipeline Interconnection - Citrus Heights	CWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Vineyard-Fibron Gap Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Mission Avenue Pipeline Interconnection - Sacramento Suburban	CWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Ethan Way/Silica Avenue Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
PCWA/SSWD Pipeline Interconnection	PCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Woodcreek West Aquifer Storage and Recovery Project	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Pelerson Water Treatment Plant Improvements	SJWD	Water Quality	Ongoing project effort. Construction completion anticipated in 2010.
Foothill 2 Water Treatment Plant Construction Project	PCWA	Water Quality	Ongoing project effort. Construction completion anticipated in 2008.
Vineyard Surface Water Treatment Plant	SCWA	Water Quality	Ongoing project effort. Construction completion anticipated in 2019.
Fairbairn Water Treatment Plant Intake Pump to serve Cal-Am/Rosemont and Parkway service areas	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.

Table 5.2 (continued) ARB IRWMP Projects and Programs Eligible for Proposition 50 Funding

Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
Sunrise Side-Channel Enhancement Project	Water Forum Successor Effort	Ecosystem Restoration	Study and data collection complete. Project proposal under development. Undetermined timeframe for construction completion (may be 5+ years in the future).
Groundwater Production Well Improvement Project	OVWC, SJWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
Old Auburn Road Groundwater Production Well	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Fair Oaks Boulevard Groundwater Production Well	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Rio Linda/Elverta Groundwater Recharge Project	RLECWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Mesa Verde Groundwater Production Well	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2011.
Twin Oaks Avenue Groundwater Production Well	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2011.
HP Well	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Del Webb Well	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
West Roseville Specific Plan (Annexation Area) - 4 Wells	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Anatolia Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completed in 2005. Phase I operational. Phase II construction completion anticipated in 2008.
East Elk Grove Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completed in 2005. Phase I operational. Phase II construction completion anticipated in 2008.
Wildhawk Groundwater Treatment Plant	SCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2006.
Franklin Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completion anticipated in 2006. Phase II construction completion anticipated in 2008.
Big Horn Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completion anticipated in 2006. Phase II construction completion anticipated in 2008.
Sunrise Douglas (Sun Creek) Groundwater Treatment Plant	SCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Laguna Ridge (Whitelock) Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completion anticipated in 2010. Phase II construction completion anticipated in 2012.
Bond Groundwater Treatment Plant	SCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2015.
Poppy Ridge Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completed in 2005. Phase I operational. Phase II construction completion anticipated in 2006.
Cosummes River Flow Augmentation Project	SCWA	Ecosystem Restoration	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).
Indian River/Flaming Arrow Conjunction Use Pipeline	SSWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Steelhead Creek Wetland Improvement Project	SAFCA	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2009.
Groundwater Monitoring Wells for Contaminant Plume Containment	CWD	Water Quality	Ongoing project effort. Construction phase completion anticipated in 2008. Additional monitoring well need assessment will be ongoing.
Groundwater Production Well Project	OVWC	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Mariposa/Madison Transmission Main Project	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2011.
Folsom Dam Outlet Modifications	U.S. Bureau of Reclamation, SAFCA, local sponsors	Stormwater & Flood Mgmt	Studies/evaluations ongoing. Undetermined timeframe for construction start (may be 10+ years in the future).
Folsom Dam Mini-Raise	U.S. Bureau of Reclamation, SAFCA	Stormwater & Flood Mgmt	Studies/evaluations ongoing. Construction completion anticipated in 2012.

Table 5.2 (continued) ARB IRWMP Projects and Programs Eligible for Proposition 50 Funding

Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
Sacramento County Stormwater Quality Program, 2003 Stormwater Quality Improvement Plan, & Activities	County of Sacramento	Stormwater & Flood Mgmt	Ongoing implementation of program, plan, and activities. Updates as necessary.
Sunset Industrial Area Groundwater Supply Improvements	PCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
County of Sacramento Low Flow Drainage Project	County of Sacramento	Water Quality	Ongoing project effort. Construction completion anticipated in 2009.
Wellhead Treatment for Arsenic Removal	RLECWD	Water Quality	Ongoing project effort. Construction completion anticipated in 2010.
Carriagel/Lauppe Transmission Main Project	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2011.
Roseville/Citrus Heights Pipeline Interconnection	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Fairbairn Intake Pump to serve City of Sacramento and SCWA Zone 40	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Fairbairn Water Treatment Plant-Florin Connector (South Cross Tie)	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Replace Existing Wells/Install New Wells	RLECWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2035.
Placer County Stormwater Quality Program, Plan, and Activities	Placer County	Stormwater & Flood Mgmt	Ongoing project effort. Ongoing program implementation. Projects and updates as necessary.
City of Sacramento Stormwater Quality Improvement Program	City of Sacramento	Stormwater & Flood Mgmt	Ongoing program implementation. Projects and updates as necessary.
City of Folsom Stormwater Quality Program and Activities	City of Folsom	Stormwater & Flood Mgmt	Ongoing program implementation. Projects and updates as necessary.
City of Elk Grove Stormwater Quality Program and Activities	City of Elk Grove	Stormwater & Flood Mgmt	Ongoing program implementation. Projects and updates as necessary.
City of Roseville Stormwater Management Program and Activities	City of Roseville	Stormwater & Flood Mgmt	Ongoing program implementation. Projects and updates as necessary.
Water System Rehabilitation Program	City of Roseville	Water Supply	Assessment completed in 2006. Projects identified in Assessment are expected to be complete in 2007. Ongoing program implementation.
Mayhew Floodplain Environmental Enhancement Project	SAFCA	Ecosystem Restoration	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).
Meter Retrofitting Program & Activities (e.g., meter installation)	City of Sacramento	Water Supply	Ongoing program implementation. Completion anticipated in 2011.
Meter Retrofitting Program & Activities (e.g., meter installation)	City of Roseville	Water Supply	Ongoing program implementation. Completion anticipated in 2011.
Meter Retrofitting Program & Activities (e.g., meter installation)	PCWA	Water Supply	Ongoing program implementation. Completion anticipated in 2011.
American River Water Supply Project	PCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Cosumnes River Blvd. Transmission Main	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
EI Centro Transmission Main	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
North Cross Tie	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Regional Pipeline for Surface Water	RLECWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2015.
EI Dorado Water and Power Authority Projects/Programs/Activities	EI Dorado Water and Power Authority	Ecosystem Restoration	Ongoing program implementation. Projects and updates as necessary.
Northridge Water Line	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2006.
Lincoln Recycled Water Distribution System Expansion - Southwest Placer County	City of Lincoln	Water Recycling	Construction completion anticipated in 2007.

Table 5.2 (continued) ARB IRWMP Projects and Programs Eligible for Proposition 50 Funding

Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
Lincoln Recycled Water Distribution Pipeline Expansion - Western Placer County	City of Lincoln	Water Recycling	Project anticipated to begin in 2010. Incremental expansions to be operational when completed. Undetermined timeframe for completion of all expansions.
Panhandle Transmission Main	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
City of Lincoln Regional Wastewater Treatment and Reclamation Facility Expansion	City of Lincoln	Water Recycling	Ongoing project effort. Undetermined timeframe for construction completion (may be 10+ years in the future).
Stone Lake Wildlife Refuge	Various local/regional agencies	Ecosystem Restoration	Ongoing implementation. Projects, activities, and updates as necessary.
Sacramento Stormwater Management Program & Activities	City of Sacramento, SCWA	Water Quality	Ongoing program implementation. Projects, activities, and updates as necessary.
Zone 50 Infrastructure	SCWA	Water Supply	Phase I construction completion anticipated in 2006. Phase II construction completion anticipated in 2008.
Water Distribution Facilities - North Central Specific Plan Area	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Upgrade Water Main	City of Roseville	Water Supply	Annual project with ongoing implementation.
South Sacramento Streams Group Levee Project	SAFCA	Stormwater & Flood Mgmt	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).
Pocket Area Levee Underseepage	SAFCA	Stormwater & Flood Mgmt	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).
Mayhew Drain Levee	SAFCA	Stormwater & Flood Mgmt	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).
Lower Sacramento Regional Project	SAFCA	Stormwater & Flood Mgmt	Study is ongoing and completion is anticipated in the near-future. Recommendations may be implemented in the far-future.
East Bank Levee Widening Project at RM 78.1	SAFCA	Stormwater & Flood Mgmt	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).
Sacramento River Pioneer Reservoir Sites	SAFCA	Stormwater & Flood Mgmt	Ongoing project effort. Construction completion anticipated in 2006.
Pocket Area - Sacramento River Erosion Sites	SAFCA	Stormwater & Flood Mgmt	Ongoing project effort. Construction completion anticipated in 2006.

Table 5.3 ARB IRWMP Projects and Programs "Ready to Go"

Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
Environmental/Community Organization Interests and Activities	Various organizations	Ecosystem Restoration	Ongoing implementation. Updates as necessary.
Freepoint Regional Water Project	FRWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Gardenland Flood Management, Habitat Restoration, and Recreation Project	SAFCA	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2011.
SRCSD Water Recycling Betterment and Expansion Project (Phase II Project & Bartley Cavanaugh Golf Course)	SRCSD, City of Sacramento	Water Recycling	Ongoing project effort. SRCSD's two Step 1 projects have been consolidated into one Step 2 project. Construction completion anticipated in 2009.
SRCSD Water Recycling Project (Phase I Project)	SRCSD, City of Sacramento	Water Recycling	Construction completed in 2004. Project operating.
Dry Creek Project	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Groundwater Production Well Project	SSWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Eastern Sacramento County Replacement Water Supply Project	SCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Pleasant Grove Wastewater Treatment Plant Expansion	City of Roseville	Water Recycling	Ongoing project effort. Construction completion anticipated in 2008.
Regional Water Authority American River Basin Conjunctive Use Program (ARBCUP)	Participating Water Purveyors	Other	Completion of construction of individual components began in 2003. Completed components operational. All components anticipated to be operational in 2007.
SRCSD Recycled Water Program Expansion - Delta Shores	SRCSD, City of Sacramento	Water Recycling	Ongoing project effort. Construction completion anticipated in 2008.
Rosemont Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
Woodcreek North Aquifer Storage and Recovery Project	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
Bajamont Water Treatment Plant Expansion	CWD	Water Quality	Ongoing project effort. Construction completion anticipated in 2007.
Roseville Water Treatment Plant Expansion	City of Roseville	Water Quality	Ongoing project effort. Construction completion anticipated in 2008.
TNC River Management and Conjunctive Management Opportunities of the Cosumnes River	TNC	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2009.
Mission Avenue Pipeline Interconnection - Citrus Heights	CWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Vineyard-Florin Gap Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Mission Avenue Pipeline Interconnection - Sacramento Suburban	CWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Ethan Way/Silica Avenue Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
PCWA/SSWD Pipeline Interconnection	PCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Foothill 2 Water Treatment Plant Construction Project	PCWA	Water Quality	Ongoing project effort. Construction completion anticipated in 2008.
Fairbairn Water Treatment Plant Intake Pump to serve Cal-Am/Rosemont and Parkway service areas	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Groundwater Production Well Improvement Project	OVWC, SJWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
Old Auburn Road Groundwater Production Well	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
Rio Linda/Elverta Groundwater Recharge Project	RLECWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
West Roseville Specific Plan (Annexation Area) - 4 Wells	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2010.
Anatolia Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completed in 2005. Phase I operational. Phase II construction completion anticipated in 2008.
East Elk Grove Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completed in 2005. Phase I operational. Phase II construction completion anticipated in 2008.
Wildhawk Groundwater Treatment Plant	SCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2006.
Franklin Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completion anticipated in 2006. Phase II construction completion anticipated in 2008.

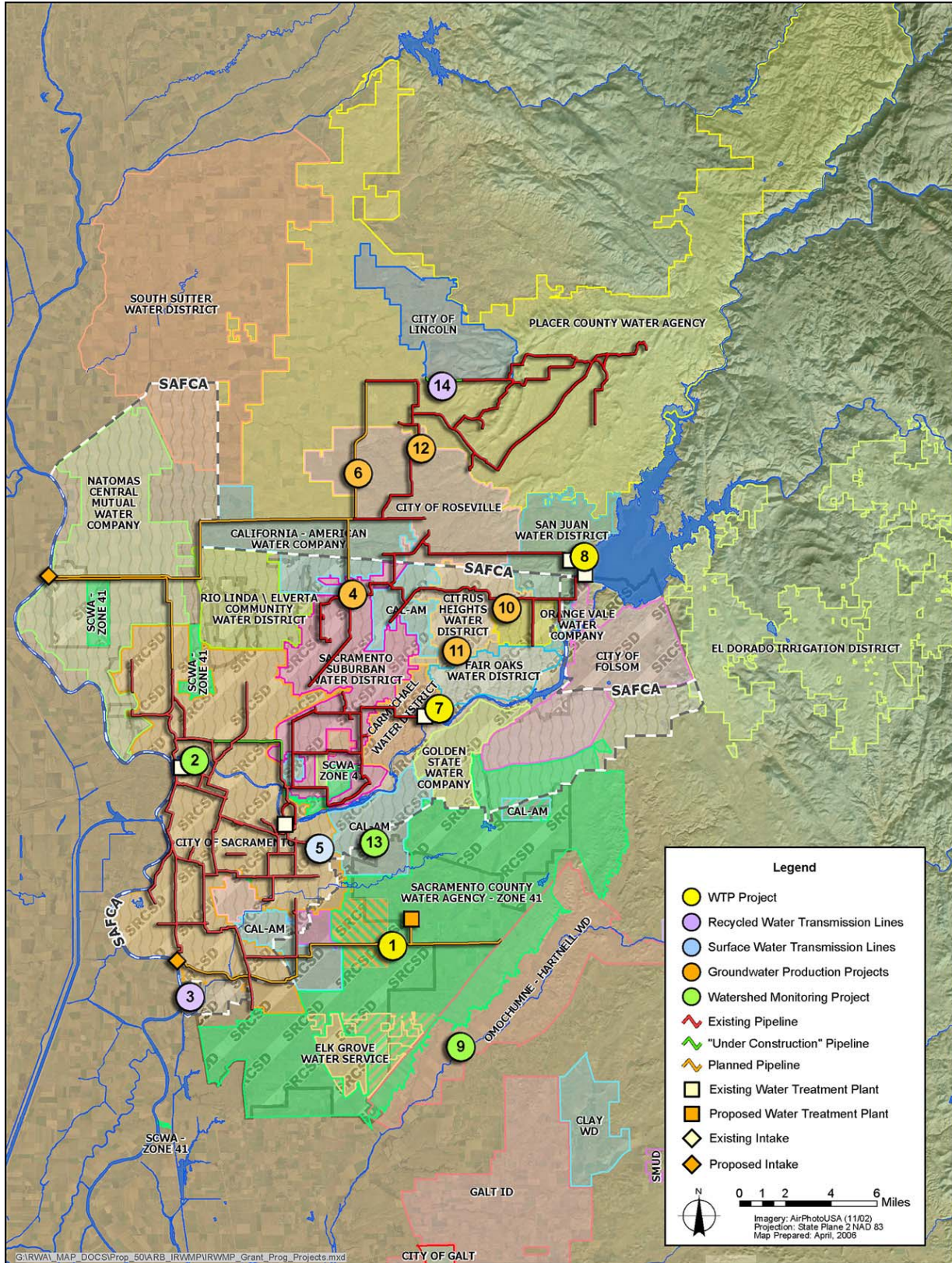
Table 5.3 (continued) ARB IRWMP Projects and Programs "Ready to Go"

Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
Big Horn Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completion anticipated in 2006. Phase II construction completion anticipated in 2008.
Poppy Ridge Groundwater Treatment Plant	SCWA	Water Supply	Phase I construction completed in 2005. Phase I operational. Phase II construction completion anticipated in 2006.
Groundwater Monitoring Wells for Contaminant Plume Containment	CWD	Water Quality	Ongoing project effort. Construction phase completion anticipated in 2008. Additional monitoring well need assessment will be ongoing.
Sacramento County Stormwater Quality Program, 2003 Stormwater Quality Improvement Plan, & Activities	County of Sacramento	Stormwater & Flood Mgmnt	Ongoing implementation of program, plan, and activities. Updates as necessary.
Sunset Industrial Area Groundwater Supply Improvements	PCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
County of Sacramento Low Flow Drainage Project	County of Sacramento	Water Quality	Ongoing project effort. Construction completion anticipated in 2009.
Fairbairn Intake Pump to serve City of Sacramento and SCWA Zone 40	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Fairbairn Water Treatment Plant-Florin Connector (South Cross Tie)	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Placer County Stormwater Quality Program, Plan, and Activities	Placer County	Stormwater & Flood Mgmnt	Ongoing project effort. Ongoing program implementation. Projects and updates as necessary.
City of Sacramento Stormwater Quality Improvement Program	City of Sacramento	Stormwater & Flood Mgmnt	Ongoing program implementation. Projects and updates as necessary.
City of Folsom Stormwater Quality Program and Activities	City of Folsom	Stormwater & Flood Mgmnt	Ongoing program implementation. Projects and updates as necessary.
City of Elk Grove Stormwater Quality Program and Activities	City of Elk Grove	Stormwater & Flood Mgmnt	Ongoing program implementation. Projects and updates as necessary.
City of Roseville Stormwater Management Program and Activities	City of Roseville	Stormwater & Flood Mgmnt	Ongoing program implementation. Projects and updates as necessary.
Water System Rehabilitation Program	City of Roseville	Water Supply	Assessment completed in 2006. Projects identified in Assessment are expected to be complete in 2007. Ongoing program implementation.
Meter Retrofitting Program & Activities (e.g., meter installation)	City of Sacramento	Water Supply	Ongoing program implementation. Completion anticipated in 2011.
Meter Retrofitting Program & Activities (e.g., meter installation)	City of Roseville	Water Supply	Ongoing program implementation. Completion anticipated in 2011.
Meter Retrofitting Program & Activities (e.g., meter installation)	PCWA	Water Supply	Ongoing program implementation. Completion anticipated in 2011.
Cosumnes River Blvd. Transmission Main	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
El Dorado Water and Power Authority Projects/Programs/Activities	El Dorado Water and Power Authority	Ecosystem Restoration	Ongoing program implementation. Projects and updates as necessary.
Northridge Water Main	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2006.
Lincoln Recycled Water Distribution System Expansion - Southwest Placer County	City of Lincoln	Water Recycling	Construction completion anticipated in 2007.
Stone Lake Wildlife Refuge	Various local/regional agencies	Ecosystem Restoration	Ongoing implementation. Projects, activities, and updates as necessary.
Sacramento Stormwater Management Program & Activities	City of Sacramento, SCWA	Water Quality	Ongoing program implementation. Projects, activities, and updates as necessary.
Zone 50 Infrastructure	SCWA	Water Supply	Phase I construction completion anticipated in 2006. Phase II construction completion anticipated in 2008.
Water Distribution Facilities - North Central Specific Plan Area	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
Upgrade Water Main	City of Roseville	Water Supply	Annual project with ongoing implementation.
Mayhew Drain Levee	SAFCA	Stormwater & Flood Mgmnt	Ongoing project effort. Undetermined timeframe for construction completion (may be 5+ years in the future).

**Table 5.4 ARB IRWMP Projects and Programs Requesting Round 1 Proposition 50 Funding**

Project Number	Projects and Programs	Responsible Agency(ies)	Primary IRWMP Objective From Section 4	Notes
1	Freeport Regional Water Project	FRWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
2	Gardenland Flood Management, Habitat Restoration, and Recreation Project	SAFCA	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2011.
3	SRCS D Water Recycling Betterment and Expansion Project (Phase II Project & Bartley Cavanaugh Golf Course)	SRCS D, City of Sacramento	Water Recycling	Ongoing project effort. SRCS D's two Step 1 projects have been consolidated into one Step 2 project. Construction completion anticipated in 2009.
4	Groundwater Production Well Project	SSWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2008.
5	Rosemont Conjunctive Use Pipeline	City of Sacramento	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
6	Woodcreek North Aquifer Storage and Recovery Project	City of Roseville	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
7	Bajamont Water Treatment Plant Expansion	CWD	Water Quality	Ongoing project effort. Construction completion anticipated in 2007.
8	Roseville Water Treatment Plant Expansion	City of Roseville	Water Quality	Ongoing project effort. Construction completion anticipated in 2008.
9	TNC River Management and Conjunctive Management Opportunities of the Cosumnes River	TNC	Ecosystem Restoration	Ongoing project effort. Construction completion anticipated in 2009.
10	Groundwater Production Well Improvement Project	OVWC, SJWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
11	Old Auburn Road Groundwater Production Well	CHWD	Water Supply	Ongoing project effort. Construction completion anticipated in 2009.
12	Sunset Industrial Area Groundwater Supply Improvements	PCWA	Water Supply	Ongoing project effort. Construction completion anticipated in 2007.
13	County of Sacramento Low Flow Drainage Project	County of Sacramento	Water Quality	Ongoing project effort. Construction completion anticipated in 2009.
14	Lincoln Recycled Water Distribution System Expansion - Southwest Placer County	City of Lincoln	Water Recycling	Construction completion anticipated in 2007.

**Section 5  
Regional Priorities**



Note: Icon numbers represent projects as referenced in Table 5.4

**Figure 5.2 Initial Projects to Address Regional Objectives**