

## **Section 8: Recommended Implementation Plan**

---

The previous section identifies recommended facilities to convey recycled water to meet demand and to provide fire protection. This section presents an implementation plan for the recommended facilities based on established priorities. A phasing plan and implementation schedule are recommended.

### **8.1 Implementation Considerations**

In order to implement each phase, several development activities need to occur and issues need to be addressed. Many of the implementation elements apply to all the phases; however, some issues are unique to individual phases or facilities. The following is a listing of the major activities and issues to be addressed which are common to all phases. The activities are generally listed in order of occurrence; however, most would require concurrent effort through the duration of implementation.

- Customer Development - Verify demands, customer commitment, connection locations, retrofit requirements, and DHS approvals.
- Preliminary Design/Engineering Feasibility - Evaluate alternative pipeline routes, collect detailed utility and traffic information, prepare updated cost estimates, and update with new information from customer development activities. Preliminary design can be initiated following initial verification of customer information, provided updated customer information does not identify other significant issues.
- Regulatory Approvals - Identify required permits and regulatory approvals, including DHS, RWQCB, CEQA, and construction permits. Develop management plan and schedule to obtain regulatory approvals, considering appropriate review periods for regulatory agencies. Regulatory activities should be initiated concurrently with preliminary design and continue through implementation and operation.
- Design/Construction - Incorporate any updated customer information, regulatory requirements, and community concerns. Reevaluate economics with updated information and design level cost estimate. Design and construction efforts can begin immediately following preliminary design.
- Training – Provide training and guidance to the site supervisors assigned by each recycled water user. Educate site supervisors on the proper use of recycled water, recycled water regulations, and basic principles of backflow prevention and cross-connection control.

### **8.2 Phasing Plan**

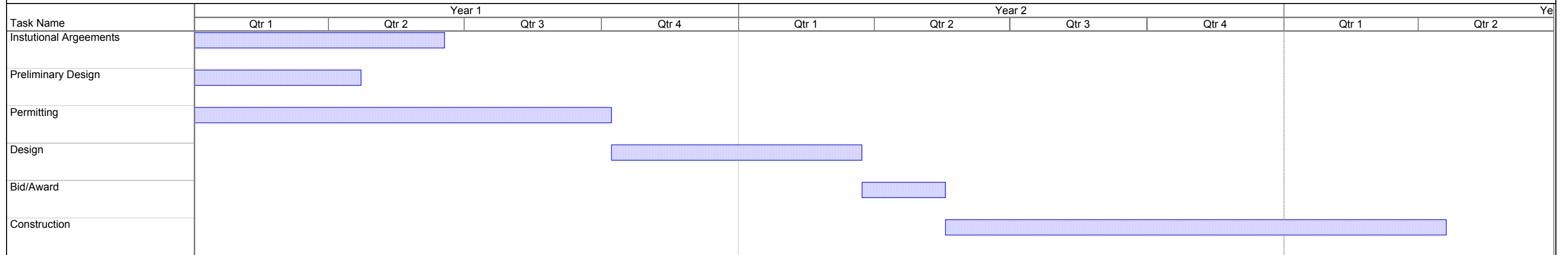
Because the recycled water system can only be utilized when complete, only one implementation phase is recommended. However, this recommendation should be reviewed if concerns arise from the use of recycled water at the future sites.

CCSD may consider dividing the project into two bidding packages: one for the distribution system and one for the treatment plant improvements. This approach would take advantage of different contractor specialties and could result in lower construction cost. Accordingly, it is recommended that this approach be evaluated during preliminary design.










### **8.3 Implementation Schedule**

Implementation of the recycled water system described previously is anticipated to take 2.5 to 3.5 years to complete. Although relatively straightforward, negotiations with potential recycled water users may take up to 6 months and should begin as early as possible. Opportunities for state and federal funding should also be pursued early in the process. Permitting, design, construction, and startup are likely to require 2 to 3 years to complete. The permitting process may also be lengthy due to numerous Title 22 requirements and should also begin as early as possible. The implementation schedule is presented in Figure 8-1.

**Figure 8-1  
Implementation Schedule  
CCSD Recycled Water System Modeling Report**



Project: Figure8-1  
Date: Tue 8/17/04

|       |   |           |   |                 |   |                    |   |          |   |
|-------|---|-----------|---|-----------------|---|--------------------|---|----------|---|
| Task  |  | Progress  |  | Summary         |  | External Tasks     |  | Deadline |  |
| Split |  | Milestone |  | Project Summary |  | External Milestone |  |          |   |