Figure 1. Schedule of Tasks

Task	November	December	January	February	March	April	May	June	July	August

Project Management
1. Meetings and Coordination
2. Presentations and Workshops

A. Define and Refine Water Budget Areas (WBAs)
1. Define Water Management Areas for the Sacramento Valley
2. Refine Eastside Water Management Areas for the San Joaquin Valley

B1. Calculate Local Water Supplies (Valley Floor Accretions)
1. Assist DWR with Consumptive Use Module - Rainfall-Runoff Module
2. Calculate Historical Local Water Supplies and Closure Term (DSA level)
3. Implement Rainfall-Runoff dynamically in CalSim-III

B2. Calculate Current/Projected Level Water Demands
1. Define water routing methodology within WMA
2. Develop Water Budgets for Sacramento Valley
3. Revise Water Budgets for San Joaquin Valley
4. Develop Agricultural Demands
5. Review Urban Demands (Recommendation for future work)
6. Review Rice Straw Decomposition Demands
7. Develop Wildlife Refuge Demands

C. Calculate Project and Non-Project Land-Use
1. Differentiate demands in WBAs by contractor type, supply source, land use, efficiency
2. Calculate recent historical land use from GIS coverage
3. Calculate current level land use for each demand type (disaggregation of DPLA data at DAU/county)
4. Calculate projected level land use for each demand type (disaggregation of DPLA data at DAU/county)

D. Develop Priorities for Surface Water vs. Groundwater Use
1. Develop methodology
2. Identify contract conditions and water rights, etc.
3. Define minimum groundwater use

E. Vary Demand with Surface Water Availability
1. Develop methodology for modifying land use during dry/critical periods
2. Develop methodology for estimating urban conservation/rationing during dry/critical periods
3. Create look-up tables for CalSim-III from CVMP, CALAG, IWRMAIN model runs by DPLA

F. Development of General Routing Network Template
1. Develop modular approach for modeling WMAs
2. Routing of water to/through WMAs
3. Revise surface water goundwater links

G. Develop CalSim-III Network Schematic
1. Design new CalSim-III Schematic
2. Develop new network schematic in AutoCad
3. Assist DWR to develop in ArcGIS
4. Revise/Update WRESL code

H. Develop Methodology for Simulating Groundwater Flow
1. Develop Methodology for stream-aquifer interaction and groundwater head in the Sacramento Valley
2. Implement Unit response functions from NHI for the Sacramento Valley
3. Develop Methodology for stream-aquifer interaction and groundwater head in the San Joaquin Valley

I. Application, Testing and Verification of Groundwater Flow Components
1. Application
2. Testing
3. Verification

J. Application, Testing and Verification of Surface Water Flow Components
1. Application
2. Testing
3. Verification

K. Test CalSim-III
1. Current Level of Development (D1641 simulation)
2. Projected Level of Development (D1641 simulation)

Hydrology Documentation
1. Sacramento Valley
2. San Joaquin Valley
3. Print Document

Key
- Development of methodologies, data, and tools
- CalSim-III WRESL coding
- CalSim-III testing and documentation