Groundwater Banking Subcommittee

Meeting No. 1

Introduction and Project Goals

Agenda Items

1. Introduction
2. Project Goals and Approach
3. Project Schedule
4. Role of Groundwater Banking Subcommittee
5. Preliminary Engineering Tech Memo
6. Next Meeting

Introductions

- **Michael Cornelius – Project Manager (B-E/GEI)**
- **Paul Sorensen –Hydrogeologic Feasibility Lead (Fugro)**
- **Tim Cleath – Hydrogeologic Feasibility (Cleath & Associates)**
- **Ron Eid – Engineering Feasibility Lead (B-E/GEI)**
- **John Rickenbach – Environmental Lead (Rincon Consultants)**

Project Background

- San Luis Obispo County is looking to improve long-term water supply reliability within the County
- Project identified in County's IRWMP to improve water supply reliability
- Project funded through Proposition 50 Planning Grant

Project Goal

The goal of this project is to determine the feasibility of groundwater banking alternatives in the Paso Robles Groundwater Basin

Potential Project Benefits

- **Utilize SWP Supply to improve local water supply reliability**
- **Improve local groundwater conditions**
- **Increase dry year water supply reliability**
- **Improve local groundwater quality**
- **Provide greater flexibility in water resources management**
- **Reduce dependence on imported water supplies in below-normal years**

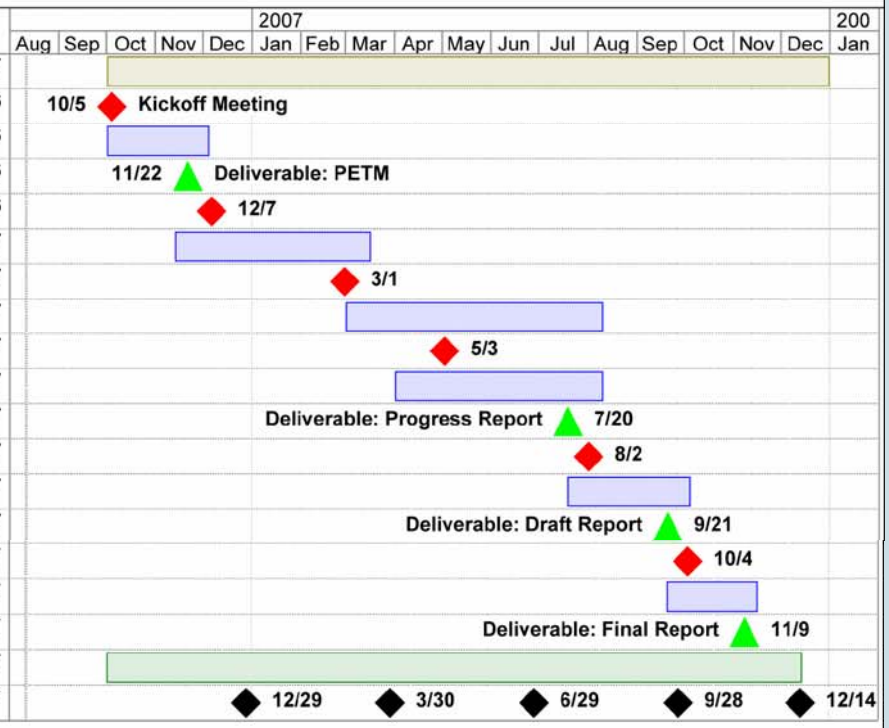
Project Approach

- **Evaluate Technical Feasibility**
  - **Hydrogeologic Feasibility**
  - **Engineering Feasibility**
- **Identify Other Considerations**
  - **Environmental Considerations**
  - **Institutional/Regulatory Considerations**
  - **Project Partners and Funding Opportunities**

Project Schedule

San Luis Obispo County Flood Control and Water Conservation District
Paso Robles Groundwater Basin Feasibility Study
Proposed Project Schedule

ID	Task Name	Start	Finish
1	**Task 1 - Stakeholder Involvement Meetings**	Mon 10/2/06	Mon 12/31/07
2	Groundwater Banking Sub-Committee Meeting 1	Thu 10/5/06	Thu 10/5/06
3	**Task 2 - Preliminary Engineering**	Mon 10/2/06	Mon 12/4/06
4	Deliverable: Preliminary Engineering Technical Memorandum	Wed 11/22/06	Wed 11/22/06
5	Groundwater Banking Sub-Committee Meeting 2	Thu 12/7/06	Thu 12/7/06
6	**Task 3 - Initial Alternatives Development and Project Screening**	Tue 11/14/06	Fri 3/16/07
7	Groundwater Banking Sub-Committee Meeting 3	Thu 3/1/07	Thu 3/1/07
8	**Task 4 - Hydrogeologic Feasibility Evaluation**	Fri 3/2/07	Fri 8/10/07
9	Groundwater Banking Sub-Committee Meeting 4	Thu 5/3/07	Thu 5/3/07
10	**Task 5 - Engineering Analysis of Selected Banking Sites**	Mon 4/2/07	Fri 8/10/07
11	Deliverable: Progress Report	Fri 7/20/07	Fri 7/20/07
12	Groundwater Banking Sub-Committee Meeting 5	Thu 8/2/07	Thu 8/2/07
13	**Task 6 - Draft Report**	Fri 7/20/07	Thu 10/4/07
14	Deliverable: Draft Report	Fri 9/21/07	Fri 9/21/07
15	Groundwater Banking Sub-Committee Meeting 6	Thu 10/4/07	Thu 10/4/07
16	**Task 7 - Final Report**	Fri 9/21/07	Fri 11/16/07
17	Deliverable: Final Report	Fri 11/9/07	Fri 11/9/07
18	**Task 8 - Project Management and Coordination**	Mon 10/2/06	Fri 12/14/07
19	Deliverable: Quarterly Progress Report	**Fri 12/29/06**	**Fri 12/14/07**



Project Deliverables

- **Preliminary Engineering Technical Memorandum (PETM)**
- **Progress Report**
- **Draft Report**
- **Final Report**

Role of Groundwater Banking Subcommittee

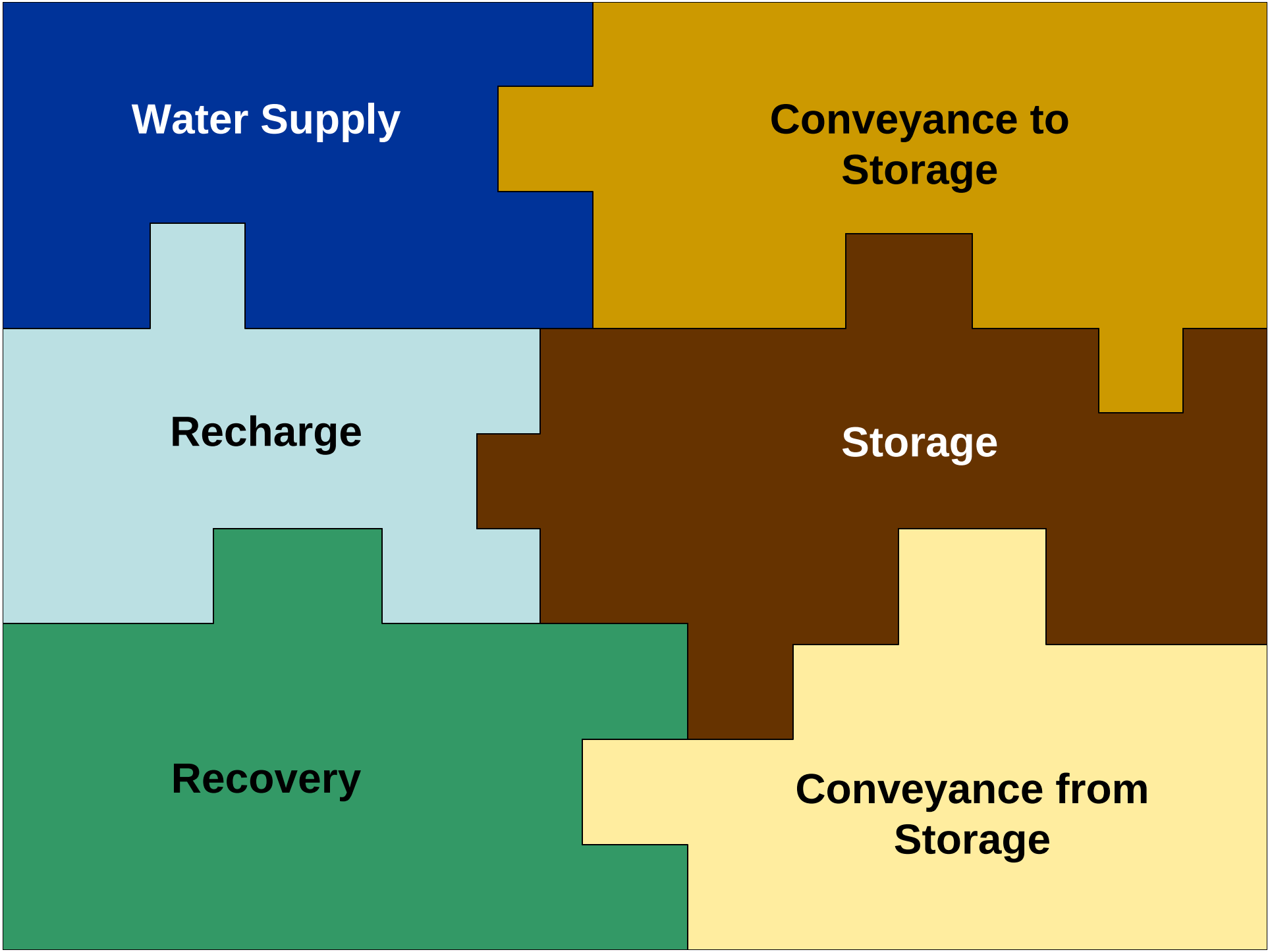
- Develop an understanding of the role of groundwater banking in water resources management
- Provide local knowledge and experience to consulting team
- Provide review and comment to project deliverables

GBSC Meetings

Meeting Number	Activities
1	Introductions, Project Goals, Review PETM outline
2	Provide comments on PETM Review initial project screening criteria
3	Review application of coarse screening criteria Identify 3 projects for further analysis
4	Review progress of the hydrogeologic and engineering feasibility analysis
5	Provide comments on Progress Report
6	Provide comments on Draft Report

Groundwater Banking Feasibility

- Geologic and hydrogeologic setting
- Available groundwater storage capacity
- Ability to move water in and out of the aquifer system
- Suitable groundwater quality
- Ability to deliver water to end user


Water Supply
Conveyance to Storage
Recharge
Storage
Recovery
Conveyance from Storage

Hydrogeologic Feasibility

- Local hydrogeologic conditions
- Available storage capacity
- Groundwater levels and flow directions
- Groundwater quality considerations

Engineering Feasibility

- **Formulate groundwater banking alternatives**
- **Identify required infrastructure and operations**
- **Evaluate water supply accomplishments and infrastructure costs to compare and rank alternatives**

Other Considerations

- **Environmental Considerations**
- **Institutional and Regulatory Considerations**
- **Potential Partners**
- **Funding Opportunities**

Preliminary Engineering Technical Memorandum

- Document project assumptions
- Develop common understanding
- Provide framework for rest of project

Recharge Methods

- **Direct Recharge Methods**
  - **Recharge Basins/Spreading Ponds**
  - **Natural Channels**
  - **Injection**
- **In-Direct Methods**
  - **In-Lieu Recharge**

Questions ?