Zone 7 – An Overview

LAFCo Meeting, March 13, 2014

Drinking water for over 220,000 people

Groundwater basin manager for over 50 Years

Regional Flood Protection For Eastern Alameda County

Irrigation for viticulture and landscaping
Zone 7 Water Agency Functions

- Flood protection for Eastern Alameda County (425 square miles)
- State Water Project Contractor, importing an average of 48,000 AFA to Valley; remaining demands met with local supplies
- Treated water wholesaler (45,000 AFA) for over 220,000 residents and businesses served by:
  - City of Livermore
  - California Water Service Company (portion of Livermore)
  - City of Pleasanton
  - Dublin San Ramon Services District (including Dougherty Valley under special agreement)
- Untreated water supplier (5,000 AFA) for:
  - 74 agricultural & irrigation customers (3500 acres)
  - Primarily vineyards
  - Local wine industry estimated at $200 million/year
- Groundwater Basin Manager
  - 250,000 AF underground basin with 126,000 AF operational storage
Integrated goals & operations

- Solar Panels at DVWTP; Lawn Replacement Program
- Removed Castlewood Grade Control Structure
- Extensive Salt Management Plan that includes well monitoring & demineralization
- Restored Stanley reach of Arroyo Mocho
Authority & Funding

- Dependent Special District under Alameda County
- Governed by a locally-elected seven-member board
- Enabling legislation in Water Code

**Water** funding sources include:
- property taxes (*SWP fixed charges*)
- water rates (*O&M*)
- new development connection fees (*expansion*)

**Flood Protection** funding sources include:
- property taxes (*O&M*)
- new development impact fees (*expansion*)
WHOLESALE WATER SUPPLY: Retail Service Areas
STATE WATER PROJECT, OVER 80% OF Zone 7’s Water Supply

All of Zone 7’s Imported Supplies are delivered through the Delta/SBA System:

- Table A
- Carryover
- Dry Year Transfers
- SWP Exchanges
  - Multi-Year Pool
  - Semitropic & Cawelo
- BBID
Lake Del Valle, State Water Project facility

- Built in 1968, SE of Livermore
- Max storage capacity: 77,000 acre-feet
- Reservoir providing water storage, flood protection, fish & wildlife enhancement
  - EB Regional Park District manages recreation
- Some SWP water stored for Zone 7, ACWD, SCVWD (SBA contractors)
- Zone 7 & ACWD also use some storage capacity to capture local rain runoff
- Zone 7 owns and manages large portion of watershed (former Patterson Ranch)
Impacts of Delta Pumping Regulations

SWP Water Supply Lost Due to Delta Fisheries Protection: 4 to 18% of maximum Table A (4,200 TAF)

Zone 7’s share of lost water supply: 2% (e.g., 12,000 AF in 2013)

The Bay Delta Conservation Plan will allow the SWP to capture these supplies while protecting the environment.
2014 Drought Outlook: Worst-Case Scenario

A potential 54% reduction!

Wouldn’t that 12,000 AF lost to Delta infrastructure limitations have helped?

- 29,300 AF (26.1 MGD) [potential worst-case]
- 21,300 AF (19 MGD) (stresses basin)
- 14,000
- 7,300
- 6,900 AF (6.1 MGD)
- 1,100 AF (1 MGD)
- 6,900
- 1,100

Supply Source

- Groundwater
- Lake Del Valle
- South Bay Aqueduct

Typical Pumping

Annual Average in 2014, MGD

0.0 2.2 4.5 6.7 8.9 11.2 13.4 15.6 17.8 20.1 22.3 24.5 26.8 29.0 31.2 33.5 35.7
## 2014 Drought Response Plan

### Conservation Plus!

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<tr>
<th>Supply Opportunity</th>
<th>Action</th>
<th>Timeline</th>
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| Groundwater Basin           | • New well: COL #5  
• New well: Valley Avenue Well (Busch Well #1)  
• Additional retailer pumping  
• Additional agricultural pumping  
• Drought pumping optimization and monitoring plan | Online in 8/2014  
Online in 2/2015  
As-Needed  
As-Needed  
Ongoing throughout 2014 & 2015 |
| Lake Del Valle              | • Fill lake with SWP water while available  
• Exchange opportunities with other SBA Contractors  
• Feasibility of accessing dead storage | Ongoing throughout 2014 & 2015                |
| South Bay Aqueduct          | • Negotiate at State level to maximize available supply  
• Coordinate with State Water Contractors  
• Communicate Zone 7 needs/risks to DWR & State | Ongoing throughout 2014 & 2015                |
| Chain of Lakes              | • Expedite recharge - install Lake I/Cope Lake intertie  
• Capture all groundwater exports from gravel companies  
• Feasibility of a package water treatment plant at lakes | Online in 5/2014  
Ongoing throughout 2014 & 2015  
Evaluation completed by Summer 2014 |
| Emergency Interties         | • EBMUD: facilitate transfers to DSRSD that may be available  
• SFPUC: facilitate transfers to Livermore that may be available  
• Begin work on larger intertie with EBMUD &/or SFPUC | Ongoing throughout 2014 & 2015                |
The Valley’s Economic Lifeline (South Bay Aqueduct at Tesla Rd)
For more information, visit
www.Zone7water.com