



OCSD Water Supply Issues Northern Cities Groundwater Basin

October 28, 2009





Water Supply

- Existing Supply Summary:
 - GW, 900 AF
 - Lopez, 303 AF
 - State Water, 750 AF
 - Total: 1,953 AF
- Future Demand: 1,419 AFY (73%)
- Existing Demand: 910 AFY (47%)
- Buffer 534 AFY



Water Supply Reliability

- GW and Lopez Full Allocations
- State Water (750 AFY)
 - Drought Cycles
 - Environmental Factors (Bay-Delta Smelt)
 - Reliability (40% of allocation) ~300 AFY
- Current Adjusted Supply: 1,503 AFY
- Future Demand: 1,419 AFY
- Buffer w/40% SW: 84 AFY



Water Supply Recommendations From Draft WMP

- State Water Drought Buffer
- Continued Conservation Efforts
- Reduce Unaccounted-for Water
- Future Water Recycling Opportunities



2008 Water Use Summary

• State Water – 377 AF

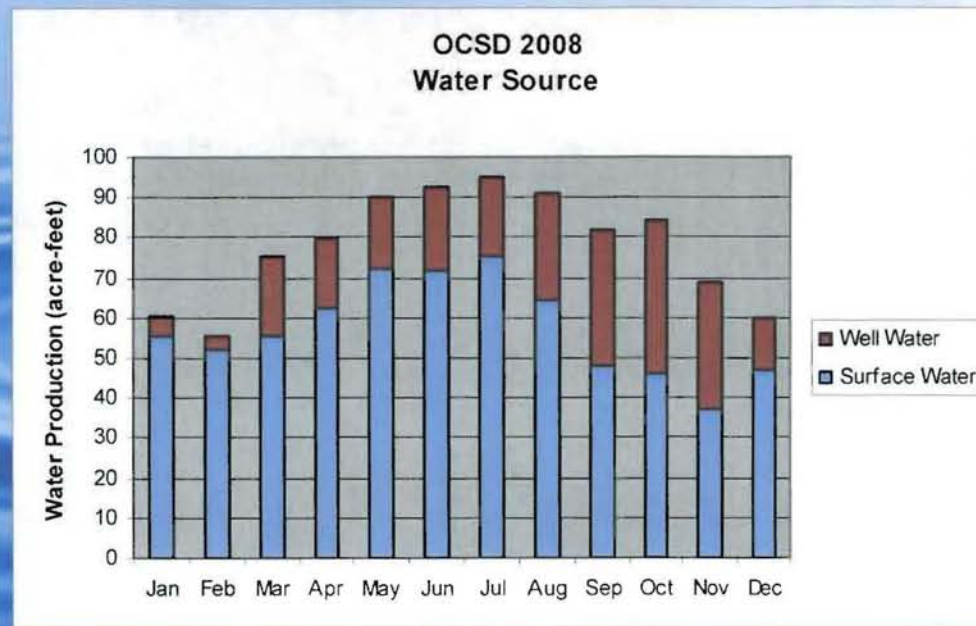
• Lopez Water – 278 AF

• GW – 247 AF

• Total – 902 AF

Surface Water – 73%

Groundwater – 27%





Cost of Water Supplies

- **State Water**
 - \$1,100/AF
 - Includes Wheeling Cost
- **State Water Drought Buffer**
 - \$75/AF
- **Lopez Water**
 - \$1,391/AF
- **Groundwater**
 - ~\$300/AF



**Total cost for 2008 is
approximately \$814,500
or \$900/AF for all sources
combined (902 AF)**



Oceano Community Services District

Oceano Production and Monitoring Wells



Wells No. 7 and 8



**Ocean Production Wells
Closest to Ocean—well
depth and WL above MSL**

Well No. 7 162' (0.5')

Well No. 8 525' (3.8')

Oceano Monitoring Wells Depot Parking Lot



Oceano monitoring wells

Green, Blue, Yellow and Silver



Oceano Monitoring Wells

Well Depth and WL above MSL

**Green (130')
+5.5'**

**Blue (265')
+7.0'**

**Silver (510')
+7.1'**

**Yellow (645')
+8.7'**





Location of Sentry Wells

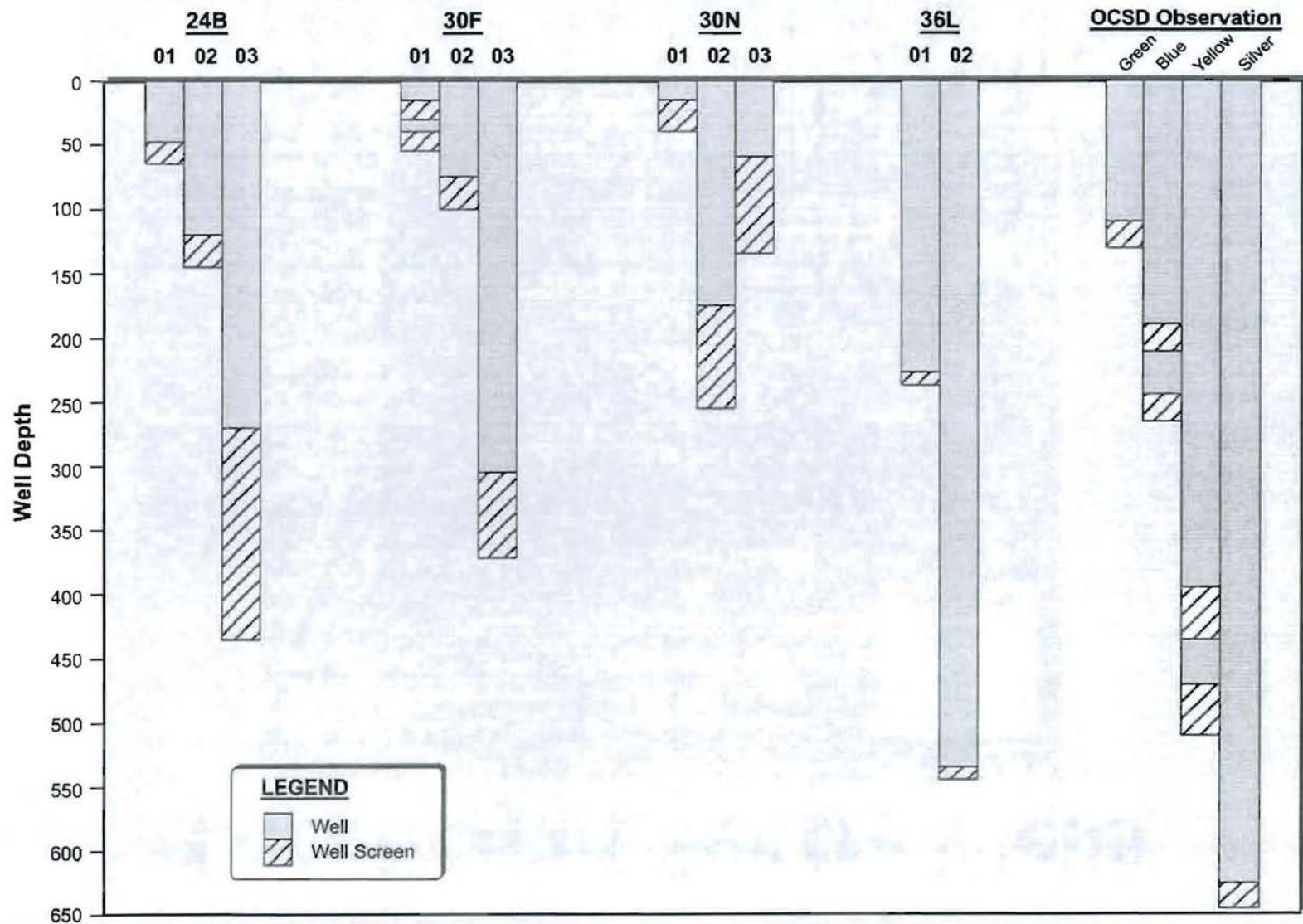
Note: Missing Sentry Well south of Grande Ave.

Note: Missing Sentry Well south of Arroyo Grande Creek.





Depth of Sentry Wells





Sentry Wells N01, 2, and 3





Monitoring Casings





Access Port





Sentry Wells F01, 2 and 3



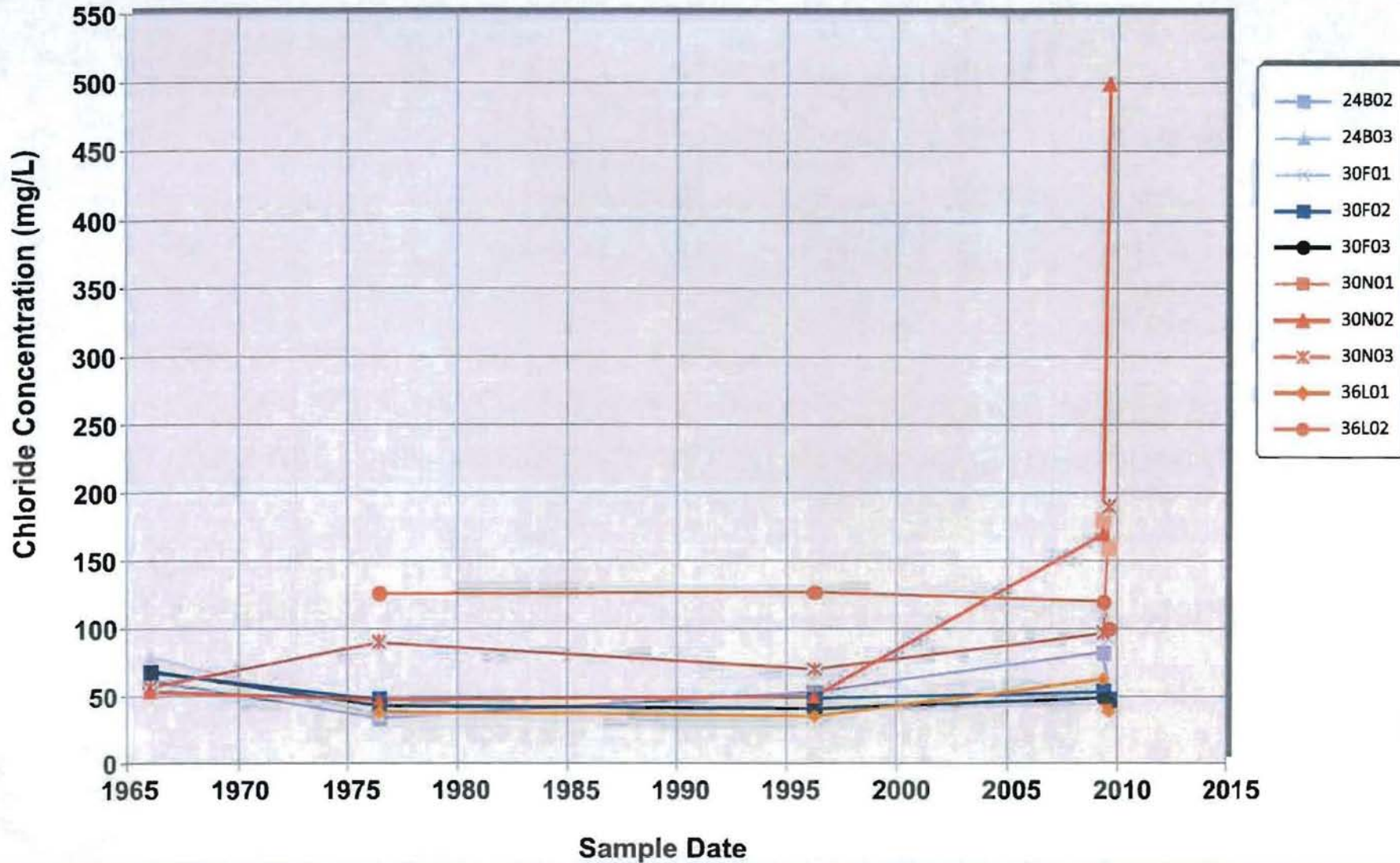


Monitoring Ports





Chloride Concentrations





Recommendations

1. Continue groundwater monitoring required by Santa Maria Groundwater Basin Settlement Agreement
2. Work with Northern Cities and other agencies to augment, and/or decrease pumping of groundwater and to purchase state water drought buffer water
3. Continue to explore recycled water options and investigation of a seawater intrusion barrier project
4. Return to Board with more detail on cost sharing and alternatives