City of Huntington Beach 2005 Urban Water Management Plan

City of Huntington Beach – ISO Class 1 Water System

Water Recycling

- Required component of the plan
- OCWD Green Acres Project (GAP)
  - Not currently cost effective to deliver recycled water to Huntington Beach
- Well 8/GAP project
  - Use GAP lines originally intended for recycled water to transmit colored water to Central Park for irrigation purposes

Shortage Contingency Plan

- Chapter 14.18 of Municipal Code
- Stage of action if shortage is declared because of:
  - Increased demand or limited supplies
  - Major failure of supply, storage or distribution facilities or MWD or the City
  - A local or regional disaster
- MWD's WSDM plan
- Catastrophic supply interruption addressed in City's Emergency Management Program
  - Water Emergency Response Organization of Orange County (WEROC)

Demand Management Measures

- California Urban Water Conservation Council
  - City is signatory to MOU regarding BMPs for urban water conservation (August 2000)
  - Implement 14 BMPs
  - Submit activity reports every two years

Water Use Provisions

- Annual per capita use is well below Orange County average
- Predominantly residential
- Land use and water use efficiency impacts on consumption

Reliability Planning

- Other agencies
  - Santa Ana RWQCB
  - SAWPA
- Demand and supply comparison
  - City projected to meet 100% of demand in dry year and multiple dry year scenarios

Reliability Planning

- OCWD
  - Long term facilities plan
    - Increase amount of sustainable basin production
    - Protect water quality
    - Establish future production amounts
    - Estimate impacts to RA and BPP
  - GWRS
    - Joint project with OCSD

Reliability Planning

- Vulnerability of supply to seasonal or climatic shortages
  - Dry year and multiple dry year demands
- MWD - "A Blueprint for Water Reliability"
  - Develop cost-effective local resources
  - Secure additional import supplies
  - Provide infrastructure to integrate import and local sources
  - Establish management plan to address periodic surplus and shortage conditions
  - Develop rate structure to implement the above

Water Quality

- Groundwater quality monitoring
  - MTBE
  - TDS
  - Nitrates
  - VOC
  - NDMA
  - Colored groundwater

Water Quality

- City's water supply meets all State and Federal standards
- Import water quality monitoring
  - Salinity
  - Perchlorate
  - Uranium
  - Chromium VI
  - MTBE

Sources and Supplies

- Groundwater
  - 10 groundwater wells in operation
  - Groundwater basin managed by OCWD
  - Current BPP 64%
- Imported
  - From MWD via MWDOC
  - 36% of the City's needs
  - 3 connections

Required Components

- Sources and supplies
- Water quality
- Reliability planning
- Water use provisions
- Demand management measures
- Shortage contingency plan
- Water recycling

Urban Water Management Plans

- Prepared in compliance with the Urban Water Management Planning Act (1983)
- Submitted to the Department of Water Resources every 5 years – due by December 31
- Must be adopted by resolution following a public hearing
- Focuses on water sources, supply and use
- City plan references MWD and MWDOC plans
- This plan contains water supply projections thru the year 2030

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City of Huntington Beach 2005 Urban Water Management Plan

Acronyms used within this report are listed on page ACR-1 of the City of Huntington Beach 2005 Urban Water Management Plan

City of Huntington Beach

Insurance Services Office (ISO) Class 1 Water System

11/7/05
STUDY SESSION #1