

# Irvine Ranch Water District Business Outreach Program

**March 29, 2011**

**IRWD Projects: Six Months & Beyond**





# Upcoming Construction Contracts

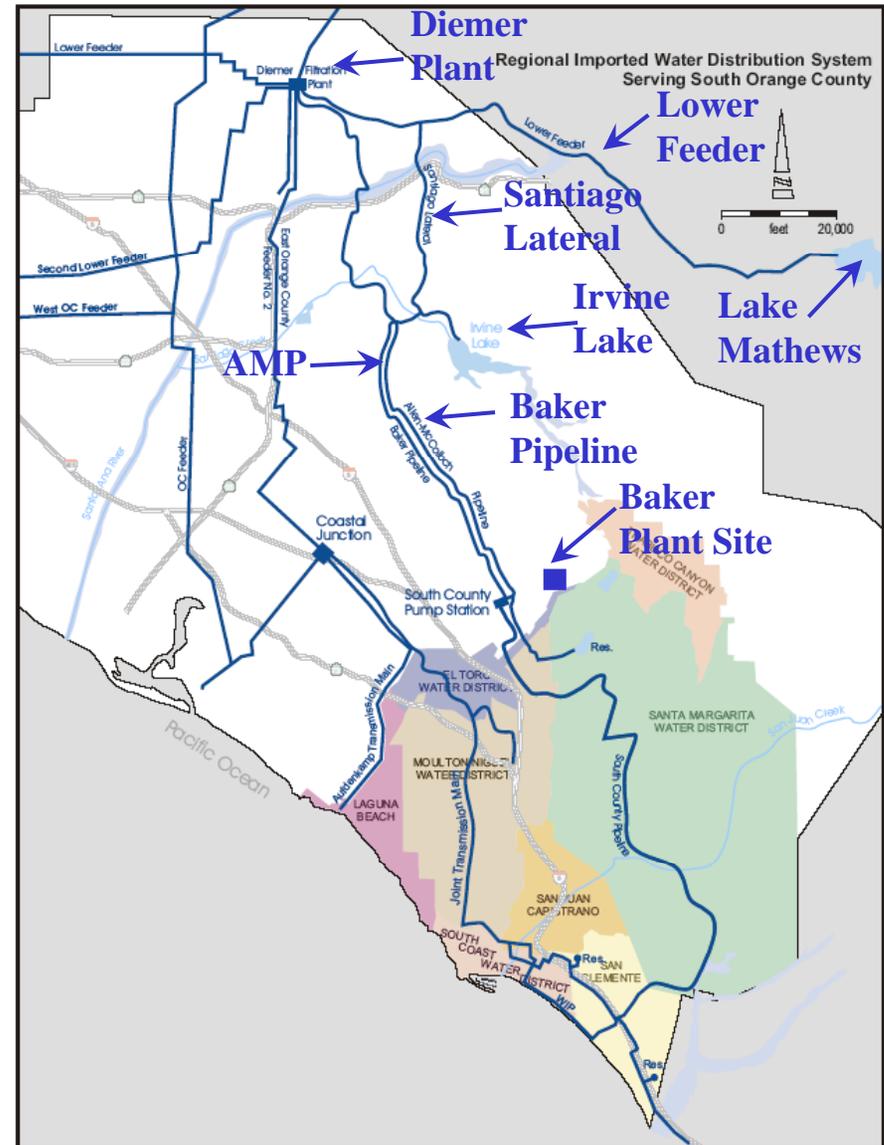
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- Baker Water Treatment Plant
- Well Projects
  - Lake Forest Well 2 (2 contracts)
  - Irvine Desalter Project Well 107
  - Orange Park Acres Well (3 contracts)
- Pipelines
  - Orange Park Acres (3 contracts)
  - Newport Boulevard



# Baker Water Treatment Plant – Project Background

- Project will improve water supply and water system reliability to South Orange County
- Alternative source of treated water to South County when MWD's Diemer Plant or MWD's AMP are out of service
- Plant will primarily receive untreated water from MWD via Baker Pipeline and Santiago Lateral
- Irvine Lake water can be supplied to the plant when Santiago Lateral or MWD Lower Feeder is out of service (planned or unplanned outages)





## Baker Water Treatment Plant – Project Facts

- Multi-agency project with six primary stakeholders
- Located in Lake Forest, CA at a former plant site with existing infrastructure
- 28 MGD plant capacity; treatment process includes state-of-the-art technology including pressurized microfiltration and ultraviolet (UV) primary disinfection.
- Estimated construction cost is \$48 Million
- Construction advertisement in Fall 2011



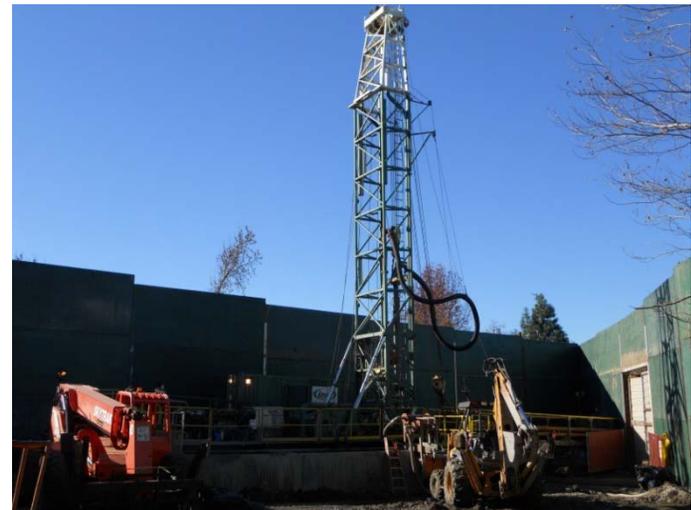
Moulton Niguel Water District





## Lake Forest Well 2

- Replacement well will produce approximately 400 gallons per minute of potable water
- Construction of Well Drilling at \$900,000 will be complete in May 2011
- Wellhead facilities include chemical addition, vertical turbine pump, motor control center, and electrical and control equipment
- Estimated construction cost for the well head is \$1M
- Wellhead facilities construction advertisement in Summer 2011





## Irvine Desalter Well 107

- Replacement well will produce approximately 1,000 gallons per minute of raw water that is pumped to the potable treatment plant for treatment
- Improvements include new well, vertical turbine pump, motor control center, and electrical and control equipment
- Estimated construction cost is \$2.5M
- Well and Wellhead facilities construction advertisement in Summer 2011





## Orange Park Acres Well

- Replacement well will produce approximately 2,000 gallons per minute of potable water
- Improvements include new vertical turbine pump, motor control center, radio antenna, chloramination disinfection facilities, equipment enclosures, and wellhead equipment
- Estimated construction cost is \$4.0M
- Well and Wellhead facilities construction advertisement in Summer 2011





# Orange Park Acres Water System Improvements

## Package 1:

- Replacement of 1928 riveted steel pipes
- Improved water supply and pressure for the OPA
- 4.4 miles of pipelines, PRVs, and appurtenances
- Construction bid was \$6.8M
- Construction began in October 2010
- Completion is scheduled for early 2012



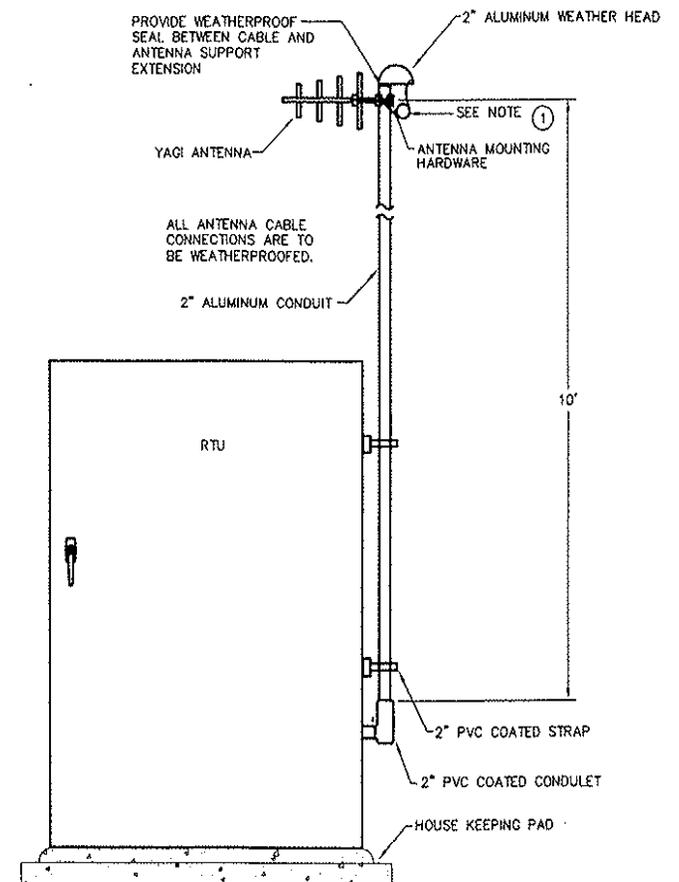


# Orange Park Acres Water System Improvements

## Package 2:

### Pressure Reducing Stations

- 3 PRV's – 2 with radio communication and SCE service
- Piping and appurtenances
- Construction advertisement in May 2011





# Orange Park Acres Water System Improvements

## Package 2:

### Fire Flow System Improvements

- 3,400 LF of 8-inch PVC
- Abandonment of ACP
- Pavement replacement
- Service connections



- Appurtenances
- Fire Hydrants
- Bi-directional meters for interconnections with the City of Orange



# Orange Park Acres Water System Improvements

## Package 3:

### Chapman Meter Relocations

- On-site piping
- (8) Service connections
- PVC and Copper
- Abandonment of ACP
- Construction advertisement in July 2011



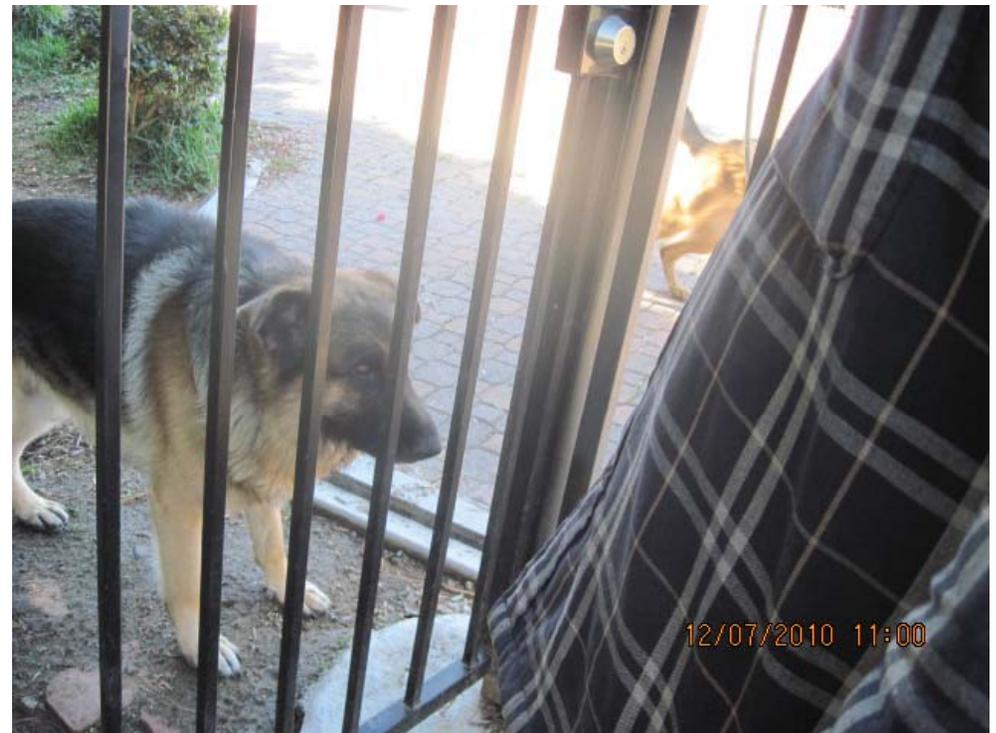


# OPA Construction Perks



The open country

Welcome parties





## Newport Boulevard Pipeline

- Relocation of 1-mile of landlocked inaccessible 12” pipeline into Newport Boulevard, between Mesa Drive and Wilson Street.
- Pipelines in three intersecting streets will also be replaced and upgraded.
- All existing water services will be transferred to the new pipelines.
- Nearly 80 customers will require meter relocation, backflow prevention devices (fire and domestic) and extensive on-site piping.





## Newport Boulevard Pipeline

- New easements for relocated meters will be dedicated.
- Design is estimated to be complete by May 2011.
- The estimated construction cost is \$4,250,000.
- Construction will likely start in August 2011.





# Questions?



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