

# FOOTHILL MUNICIPAL WATER DISTRICT

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Board Workshop

December 12, 2011

# Outline

- Glendale Interconnection
- Summary of Power Outage
- Generators
- Recycled Water
- Discussion

# GLENDALE INTERCONNECTION

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# Current Interconnections

- District has two interconnections with Pasadena
  - Linda Vista provides water to District at flows of up to 10 cfs
  - District provides water to Pasadena at Caltrans. If conditions are right, may be able to take up to 4 cfs flow Pasadena.

# Proposed Point of Interconnection

- At Montrose Avenue, just North of Honolulu,



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# Benefits

- Provides source of water from MWD's Jensen Plant instead of Weymouth Plant increasing reliability during shutdowns or emergencies.
- Allows for water to be delivered to highest FMWD elevation.

## Details

- Glendale may desire to have water wheeled through FMWD system, through interconnection, to its new well at Rockhaven for blending with nitrates

## Estimated Cost

- Current projection at \$1.2 million. This estimate is based on concept of deliveries to FMWD only. Engineering has not been performed to provide better estimate.
- Should Glendale want deliveries, contract would be negotiated for sharing of costs.
- 10-year rolling average used for Capital and Rehab charge
- Concerns about the cost allocation
- Managers will be meeting to discuss
- Report to the Board after managers discussion

# SUMMARY OF POWER OUTAGE

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# Summary of Power Outage

- Power out at 9 p.m. on Wednesday, November 30
- Generator at Ops Center automatically on
- Generator at Berkshire turned on a.m. of December 1
- Some agencies not able to take water
- Friday morning, generator at Berkshire failed
  - Received okay from CDPH to drop to 4 feet at La Crescenta reservoirs
  - Temporary fix put in place late Friday afternoon
- Diesel fuel at Berkshire needed refill every 6 hours
- Did not run generator after 11 p.m.
- Constant dialogue with SCE on power situation
- Power back on about 4 p.m. Sunday
- Balanced agency requests to meet needs

# EMERGENCY GENERATORS

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# RECYCLED WATER

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# Background

- Previous Studies
  - Morris Water Resources Study
  - Bookman-Edmonston Study
  - RMC Study
  - Water Resources Plan
- Facilities Planning Study Grant
  - Up to \$75,000 in matching funds
  - Draft due December 15.
  - Received comments
  - Final due February 28, 2012.
  - Final Draft paper follows outline provided by SWRCB.

# Final Draft Paper Review

*Sections A through F are background information...*

- A. Introduction
- B. Study Area Characteristics
- C. Water Supply Characteristics and Facilities
- D. Wastewater Characteristics and Facilities
- E. Treatment requirements
- F. Recycled water market

# Final Draft Paper Review

## G. Project Alternative Analysis

- By geography:
  - Arroyo Seco Alternatives
  - Verdugo Basin Alternatives
  - Eaton Wash Spreading Ground Alternatives
- Non project alternative analysis
  - Conservation
  - Capturing additional stormwater
- Effects on Groundwater

# Recycled Water Costs

## Recycled Water Costs

| Alternative      | Reclaimed Water Sales, AF | Total Capital Cost | Annual Capital Cost <sup>2</sup> | O&M Costs  | Total Annual Costs | Unit Costs, \$/AF |
|------------------|---------------------------|--------------------|----------------------------------|------------|--------------------|-------------------|
| A-6              | 280                       | \$ 3,759,072       | \$ 230,775                       | \$ 141,183 | \$ 371,958         | \$ 1,328.42       |
| V-6 <sup>2</sup> | 560                       | \$ 3,155,698       | \$ 193,733                       | \$ 332,434 | \$ 526,167         | \$ 939.58         |
| E-1 <sup>2</sup> | 560                       | \$ 5,032,357       | \$ 308,944                       | \$ 242,909 | \$ 551,853         | \$ 985.45         |

- 1) Based on an interest rate of 4.5%, recover period in 30 years
- 2) Alternative is being deferred indefinitely

MWD Rate Projections – current \$744 per AF to \$2,443 AF in 2032

# Recommended Alternative



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## Recycled Water Projected Costs

- With outside funding, 280 AF of recycled water rates will be the same as MWD Tier 1 and will cost less over time.

## Other Benefits

- Saves enough energy annually for 80 homes in Southern California
- Increases reliability
- More lower cost supplies
- Helps agencies meet 20% $\times$ 2020
- Less discharge to ocean means less TMDLs
- Reduced impacts to Delta smelt and other endangered species
- Combined with lower demands and fix to La Canada Reservoir, avoid need for new potable water tank

## Next Steps

- Submit final report to SWRCB
- Finalize Agreements with other agencies
- Applications for funding
- Finalize Funding
- CEQA
- Title 22 Report
- Permitting
- Design Solicitation
- Project Design
- Construction Bidding
- Construction
- Operation

*Milestones such as finalizing agreements with other agencies, securing funding and permitting will be completed before design can begin.*

# Discussion



