Vista Grande Drainage Basin
Alternatives Analysis

Public Meetings

February 21 and 26, 2008
Presentation Outline

- Overview of previous study and recommendations
- Outline of the current study
  - Objectives
  - Alternatives
  - Evaluation process and methodology
- Next steps
Previous Study

- Vista Grande Watershed Plan prepared by RMC
- Two public workshops were held to solicit input
- Vista Grande Watershed Plan was presented to the City by RMC in October 2006 with the following findings:
  - Recommended construction of a new tunnel south of the County Line
  - Downstream improvements are needed before other storm drain improvements can begin
  - Recommended use of a 25-year design storm event for design of system improvements
In March 2007, Jacobs Associates was hired to evaluate alternatives for managing downstream storm flows.

City objectives:
- Evaluate alternatives to manage storm flows generated in a 25 year 4-hour storm event.
- Encourage the environmental uses of storm water including:
  - Wetlands areas
  - Lake level enhancement
  - Storage and groundwater recharge
- Narrow the focus of the study to a manageable number of alternatives for further investigation.
Initial Screening Approach of Alternatives:

- Eleven alternatives initially screened
- Leverage existing storm water assets
- Minimize right-of-way acquisition due to time and cost
- Minimize permitting effort and duration
- Locate where there is acceptable ground stability
- After initial screening seven alternatives remained
Initial Alternatives
Geotechnical Considerations
Currently Known Environmental Issues to be Identified by Study

- **Impact to environmental resources:**
  - Bird habitat
  - Beach erosion and access
  - Water quality, public health and safety
  - Recreation activities and park resources
  - Aesthetics
  - Ocean resources

- **Regulatory process to follow CEQA and NEPA:**
  - Right-of-way
  - Permitting
  - Wetlands
  - Recreational activities and park resources
Water Quality Improvements

Linear Radial Gross Solids Removal Device

This CSRD utilizes a modular well-casing with 5 mm x 64 mm (0.2 in x 2.5 in nominal) louvers to screen out gross solids. The modular well-casing is placed on a 2 percent slope. Runoff flows into the device and exits radially through the louvers.
Selected Alternatives
Evaluation Criteria:

- Capacity of the combined alternative system (25year 4hr)
- Provide environmental benefits
- Constructability (duration and affordability)
- Minimize operating and maintenance cost and complexities
- Minimize environmental compliance requirements
- Minimize right-of-way acquisition
- Minimize construction cost and maximize life cycle savings
Screened Alternatives

Range of Costs
$145M - $196M
Next Steps

- **Public Input**
  - Draft Alternatives Evaluation Report is available on-line at [www.dalycity.org](http://www.dalycity.org)
  - Public Meetings (February 21 and 26 2008)
  - Comments accepted through March 17, 2008

- **Continue evaluation of top alternatives, Supplemental Alternative Analysis, June 13, 2008**

- **Public outreach, July 2008**

- **Prepare final draft report with methodology and ranking of alternatives, September 2008**

- **Public hearing, October 2008**
Comments and Questions