



Agenda

- Recap of January Meeting
- Responses to questions and comments
- Public field trip opportunity
- Independent Expert Panel
 - -Scope of work
 - Progress toward design storm recommendation
 - Progress on ENTS (Controls) selection

- -Panel future efforts and schedule
- Public input Questions and Comments







Response to Questions and Comments from January Meeting

- Public/Board involved in panel selection?
 - Regional Board Staff
 - Heal-the-Bay
 - Santa Monica Baykeeper
- Long-term maintenance, sediment/vegetation concentrations in ENTSs?
 - Covered in presentation
- Sources of contamination Dayton Canyon?
 - Extensive investigations have been completed
 - If public knows of sites, please respond to Boeing in writing and Boeing will visit sites with public







Expert Panel Work Plan Schedule

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Expert Panel Public Meetings

Proposed Scope	Proposed Date
Panel introduction	Complete
Progress on design storm and ENTS selection & conceptual design	Tonight
Recommended design storm and conceptual ENTS designs	April 17, 2008
Progress on ENTS implementation	September, 2008
Initial ENTS Performance Monitoring Results	Summer 2009



Site Field Trip Opportunity

- April 4th
- 3-4 hours
- Hiking (about ¼ mile in to outfall locations but steep back up plus other walking)
- Appropriate clothing and shoes
- Talk to Blythe at the end of the meeting









Application of Site Design Storm in Assessing Compliance

Storm Size	Effluent Limits	Results	
Smaller than or Equal to the Site Design Storm	Effluent limits apply as numerical effluent limits	Enforcement action(s) by Regional Board for exceedence(s) + propose remedies	
Larger than Site Design Storm	Effluent limits apply as benchmarks	Assess cause of exceedence(s) and propose potential control enhancements for Regional Board review	
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Progress on Site Specific Design Storm

- Have recommended the proposed preliminary site specific design storm (1 year event)
- Have implemented evaluation methodology (i.e., long-term continuous hydrology modeling) consistent with LA Design Storm Task Force
- Developed preliminary recommendation to be confirmed with additional work on treatment system design for 008 and 009 watersheds









Exceedance Frequency

- Variability in the effluent quality from the BMPs should be recognized for assessing compliance in the NPDES permit:
 - allowable exceedance frequency, or
 - comparison of discharge quality with one or more reference watersheds, or

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some other comparable mechanism







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008 and 009 Watersheds Guiding Principles

- •Panel recommends that ENTS infiltrate and/or evapotranspirate runoff to the maximum extent feasible considering site conditions and constraints such as:
 - -locations of contaminated groundwater plumes,
 - -sensitive habitat,
 - -infiltration potential,
 - -natural infiltration rates, and
 - -geotechnical suitability.

008 and 009 Watersheds Guiding Principles

• The Panel recommends control and treatment occur throughout the Outfall 008 and 009 watersheds, including off-site areas, such that

-all feasible areas that can be used for volume reduction and treatment are used to help ensure compliance at the outfall

008 and 009 Watersheds Guiding Principles

- Engineered Natural Treatment System (ENTS) options should focus on pollutant load as well as concentration reductions.
- These would include:
 - Engineered natural treatment systems that are subregional and at outfall locations should be as large as feasible, given site constraints.
 - Treatment controls for "critical source areas" (e.g. developed RFI, and known contaminated surface soil/sediment areas) should be designed using storms larger than the design storm, when feasible.



- Combine controls in series to treat runoff for multiple constituents and protect downstream controls
- Reduce peak flows to allow for optimizing treatment
- Consider "polishing" enhancements (media additions, BMP soils amendments, etc.)
- Optimize unit processes and overall system design
 - redundancy and complementary processes
- Detain and slow runoff from watershed to maximize space-limited treatment at outfall 009







Progress on ENTS Designs for Outfall 008 and 009 Watersheds

- Have already selected multiple potential ENTS locations throughout these watersheds (i.e., not just control at the outfalls)
- Initially locating ENTS downstream of:
 - Developed areas
 - Areas of known historic activities or surface soil/sediment contamination
- 1st set of draft conceptual ENTS designs in progress



- Remove/cover treated wood and galvanized metals
- Remove impervious areas
- Control eroding areas
- Outfall protection
- Stream stability enhancements
- Other source controls identified by the panel or by Boeing

















- All available opportunities for management measures are being identified. With goals of:
 - fully managing more than 90% of the runoff to the extent that the various site conditions allow
 - retaining the maximum possible amounts of contaminants in managed locations

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THE END

THANK YOU FOR YOUR TIME

For questions or comments, contact: Mark Schultheis, Geosyntec Consultants 800-293-4136 mschultheis@geosyntec.com