



## **Boeing Santa Susana**

Update on Interim Source Removal Actions (ISRA)

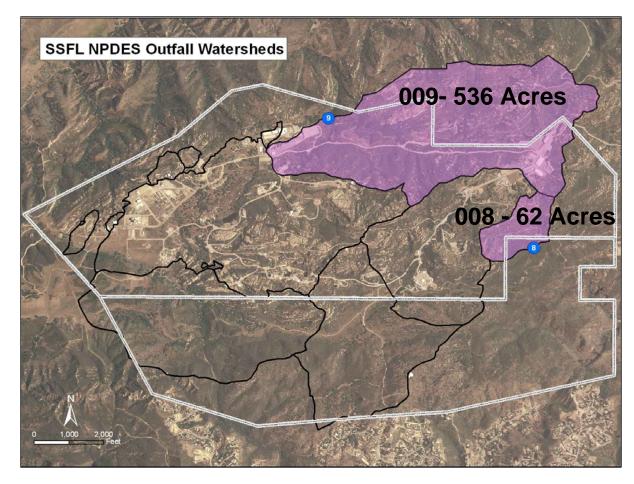
#### December 2009

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### **Project Background**

 Objective: identify and remove sources that may be contributing to NPDES exceedances in two watersheds.

 Location: Outfall 008 and 009 watersheds.



- Dec 3, 2008 Clean-up & Abatement Order Issued
- Feb 13, 2009 Preliminary ISRA Work Plan Submitted
- May 1, 2009 Final ISRA Work Plan Submitted
- Jul 7, 2009 ISRA Work Plan Approved
- Aug 20, 2009 All Supporting Plans and Permits Approved & Work Began
- Dec 22, 2009 Planned Work for 2009 To Be Completed on Schedule

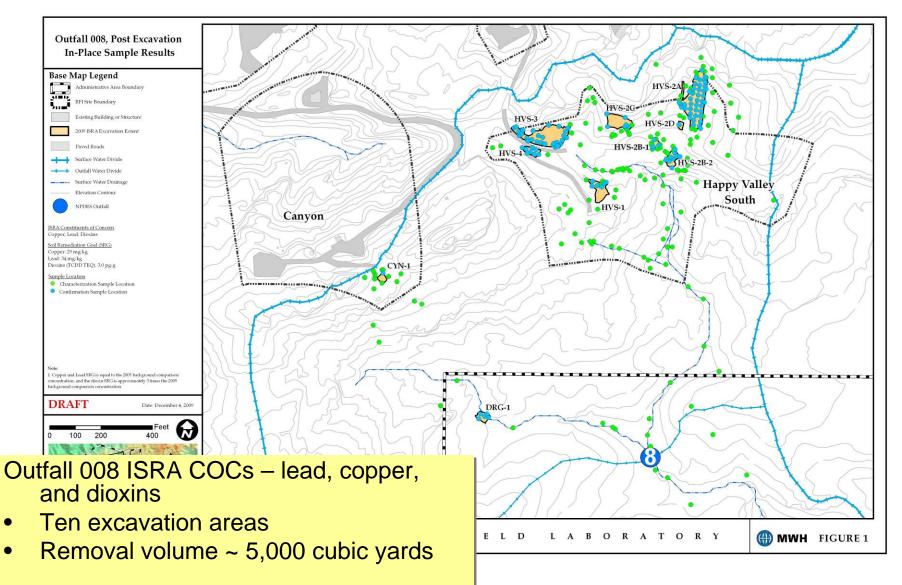
### **Agency & Community Involvement**

- Weekly planning meetings with DTSC, LARWQCB, Ventura County, NASA and Expert Panel
- 32 Site inspections by LARWQCB/DTSC/Ventura (about 50% of the field work)
- Site tour of Outfall 008 by members of the public (Sep 23)
- Internet posting of all major documents and status reports –

http://www.boeing.com/aboutus/environment/santa\_susana/isra.html

- Provided input into planning documents
- Conducted field visits prior to and during work
- Supported restoration activities prepared containerized planting plan and supervised implementation
- Providing input for performance monitoring plan

### Accomplishments to Date – Outfall 008 – Post Excavation



#### **Outfall 008 ISRA Pre-Field Work**



#### **RWQCB** participating in job walk



**Slope and Flat Work** 





Oak Tree and Santa Susana Tar Plant

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#### **Outfall 008 – Field Work in Progress**



### Outfall 008 – Unanticipated Feature Septic Tank Removal







Agency cooperation and timely direction avoided schedule impact.

## **Outfall 008 – Transportation & Disposal**



# Soil wrapped and trucks tarped to prevent dust.





#### **Outfall 008 – Pre-Rain Measures**



#### HVS-1

HVS-2A

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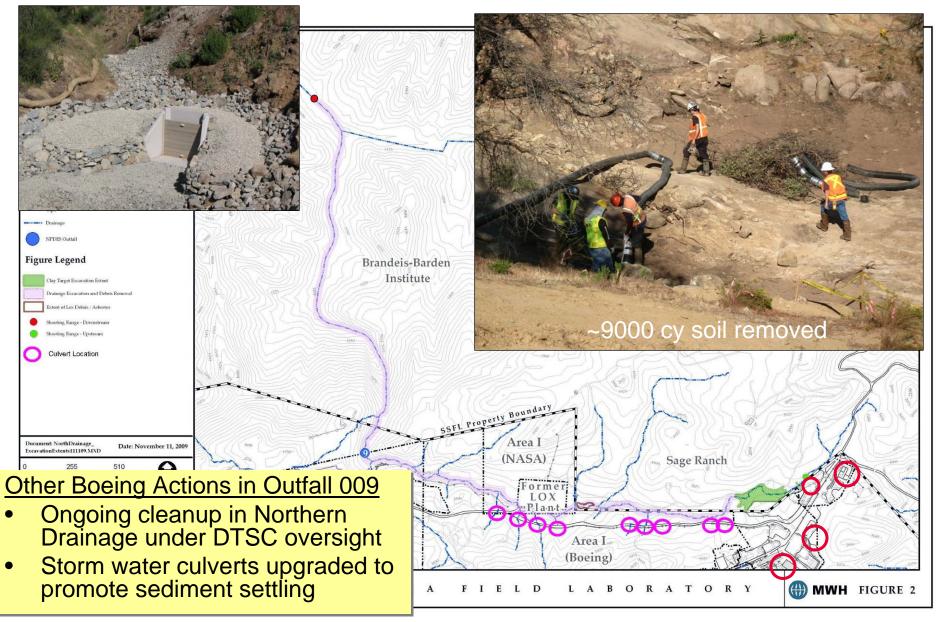
#### **Outfall 008 – Post Excavation**



#### Outfall 008 ISRA Areas – Re-contoured and Hydroseeded

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### Accomplishments to Date Outfall 009 – Northern Drainage



- Continue restoration effort to promote soil stabilization and minimize sediment migration during vegetation recovery period over the next few years
- Implement a performance monitoring plan to verify progress made by ISRA activities
- Prepare 2010 ISRA Work Plan Addendum for continued efforts in Outfall 009
- Continue ISRA actions per approved plan and conduct performance monitoring through 2012