

County of Ventura  
**GRADING PERMIT**  
 PUBLIC WORKS AGENCY  
 DEVELOPMENT AND INSPECTION SERVICES  
 800 South Victoria Avenue, Ventura, CA 93009  
 (805) 654-3774

Permit No. 10270

Description of Grading Work Refer to Attachment # 1 Blasting Yes  No

Per Ventura County Drawing Nos. \_\_\_\_\_

Address of Job 5800 Woolsey Canyon Road

Assessor Parcel No. Attachment # 1

Stage Grading  Regular Grading  Engineered Grading

Depth of Cut Attachment # 1 Excavation Attachment # 2 yds. Destination of Surplus Attachment # 2

Height of Fill Attachment # 2 Fill Attachment # 2 yds. Import Attachment # 2 yds. Export Attachment # 2 yds.

Source of Import Attachment # 1

Grading Plan Check Fee \$ \_\_\_\_\_ Date Paid \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Receipt No. \_\_\_\_\_

Grading Permit Fee \$ \_\_\_\_\_ Date Paid \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Receipt No. \_\_\_\_\_

Bond Amount \$ \_\_\_\_\_ Bond No. \_\_\_\_\_ Bond Agency \_\_\_\_\_

Inspection Required Yes  No  "As-Built" Required Yes  No

Deviations from Grading Ordinance None

**PERMITTEE SHALL NOTIFY SUBDIVISION INSPECTION  
 48 HOURS PRIOR TO WORK**

Property Owner <u>Delyons F. Aubuchon</u>	Phone <u>818-466-8823</u>	City <u>Canoga Park</u>	Zip <u>91304</u>
Address <u>5800 Woolsey Canyon Road</u>	Contractor _____	City _____	Zip _____
Supervising Civil Engineer <u>Lori Koch (MWH)</u>	Phone <u>925-627-4500</u>	City <u>Walnut Creek</u>	Zip <u>94596</u>
Address <u>2121 N. California Blvd, Suite 600</u>	Soils Engineer <u>Nelson Kawamura</u>	Phone <u>925-627-4500</u>	City <u>Walnut Creek</u>
Address <u>2121 N. California Blvd, Suite 600</u>	Engineering Geologist <u>Jim Herbert</u>	Phone <u>925-627-4500</u>	City <u>Walnut Creek</u>
Address <u>2121 N. California Blvd, Suite 600</u>		City <u>Walnut Creek</u>	Zip <u>94596</u>

This permit authorizes only that work described hereon. Neither the issuance of this permit, nor the compliance with the provisions hereof or with any conditions imposed by this permit shall relieve any person from responsibility for damage to other persons or property nor impose any liability upon the governing agency for damage to other persons or property. All attached addenda are a part of this permit. All modifications of this permit or of the approved grading plan must be approved by the governing agency.

I hereby acknowledge that I have read this application and state that the above is correct, and that all excavation, grading and filling of land shall be in accordance with the approved plans, and the applicable grading ordinance. In consideration of the County issuing this grading permit the permittee agrees to comply with all provisions of this permit including the standard conditions and special conditions attached hereto.

Your permit is not complete until "NOTIFICATION OF COMPLETION" is issued. Occupancy clearance does not mean that your project is complete.

X Signature Delyons Aubuchon Print Name DELYONS AUBUCHON Date 5/17/10

Permit Issued by: [Signature] Date Permit Issued 7/13/2010 Expiration Date 7/13/2011

This permit expires 12 months after issuance unless specified otherwise on this permit.

**WORKMAN'S COMPENSATION**

It is required that each applicant file the following:

1. A certificate of consent to self-insure issued by the Director of Industrial Relations, or
2. A certificate of Workman's Compensation Insurance issued by an admitted insurer, or
3. An exact copy certified by the Director of Industrial Relations or the insurer, or Workman's Compensation Insurance Policy No. C45702189 Expiration Date \_\_\_\_\_

4. Statement of Understanding:  
 "I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workmen's Compensation Laws of California. I further certify that I will verify compliance with the Workman's Compensation Laws of California of all sub-contractors contracted by me for any participation on projects over which I have contractual jurisdiction."

I declare under penalty of perjury that the foregoing is true and correct.

X Signature Delyons Aubuchon Date 5/17/10

FILL IN ALL BLANKS. IF NOT APPLICABLE, ENTER THE WORD "NONE"  
 Applicant should read "Standard Conditions" - see following sheet

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**From:** Jeff Pratt [Jeff.Pratt@ventura.org]  
**Sent:** Wednesday, July 14, 2010 9:32 AM  
**To:** John Zaragoza; Kathy Long; Linda Parks; Peter Foy; Steve Bennett  
**Cc:** Glenna Inouye; Jim O'Tousa; Marty Robinson; Phil Nelson; Raymond Gutierrez; Scott Powers  
**Subject:** Santa Susana Field Lab (SSFL) - Grading Permit Issuance  
**Attachments:** Boeing Grading Permit Fact Sheet\_1.docx; Boeing GP10270 ISRA Areas.pdf

Supervisors:

The Public Works Agency has issued a grading permit for onsite soil clean up at SSFL Outfall 009 located in Supervisor Foy's District. In the past, grading operations have sometimes been controversial and many of your staff have had to field questions from the public. We therefore thought that you might find the attached information of benefit.

The Boeing Company has the lead and responsibility for the clean up operations. The clean up work is similar in scope to the recently completed work at SSFL Outfall 008. A fact sheet and location map are attached. Between them they describe location, clean-up operations, schedule, and key contacts. Our review of the proposed grading indicates that there is adequate oversight by various governmental agencies and that the Boeing Company has put together a satisfactory plan for the work. The clean up effort is scheduled for completion within 8 weeks.

Should you have any questions or require additional information, do not hesitate to contact Ray Gutierrez (654-2059), Jim O'Tousa (654-2034), or myself (654-2073).

Thanks.

Jeff

## Fact Sheet

### **Ventura County Grading Permit No. 10270 Santa Susana Field Laboratory Outfall 009 Interim Source Removal Action (ISRA) 2010 ISRA Supervisorial District No. 4 – Peter Foy**

The Ventura County Public Works Agency has issued a ministerial grading permit for the 2010 ISRA at the Santa Susana Field Laboratory in an area of the Boeing Company's property known as Outfall 009. A location map of the Outfall 009 is attached and the proposed removal areas are outlined in red.

The RWQCB issued an approval of the 2010 ISRA Work Plan Addendum on June 30, 2010. The 2010 ISRA Work Plan Addendum, Supplemental documents are available on the Boeing ISRA website:

[http://www.boeing.com/aboutus/environment/santa\\_susana/isra.html](http://www.boeing.com/aboutus/environment/santa_susana/isra.html)

The proposed grading and clean-up work will begin the week of July 12, 2010 and be completed in approximately eight to ten weeks. The scope of work is nearly identical to the successful clean-up work done last year by the Boeing Company in Outfall 008 under Grading Permit No. 10220.

Within Outfall 009, discreet areas of contaminated soil, estimated at 4000 cubic yards, will be removed and hauled by containment trucks to a Class I or Class III landfill as appropriate. Excavations will be from less than 1 foot to 5 feet deep. Confirmation sampling will be performed under the oversight of the LA Regional Water Quality Control Board (RWQCB) and the Department of Toxic Substances Control (DTSC). Based upon sample results and receipt from RWQCB and DTSC that excavation is complete, the areas will be contoured to drain and blended into the natural terrain with clean backfill of approximately 2540 cubic yards imported from an approved site within the Boeing property.

Soil removed the site will be wrapped in plastic and placed in trucks that will be securely tarped to eliminate the chance of dust release. Trucks trips for export will occur on main roads and the freeway and be staggered to minimize truck traffic impacts. The 2010 ISRA Transportation Plan Addendum specifies locations of landfills proposed to be used for this project.

The disposal facilities listed in the 2010 ISRA Transportation Plan addendum are:

Non-Hazardous Material: Antelope Valley Recycle and Disposal Facility  
1200 W. City Ranch Road  
Palmdale, CA 93553

Hazardous Material: Clean Harbors Buttonwillow Landfill  
2500 West Lokern Road  
Buttonwillow, CA 93206

US Ecology, Beatty  
P.O. Box 578  
HWY 95, 11 miles South of Beatty  
Beatty, NV 89003

US Ecology, Idaho  
20400 Lemley Road  
Grand View, ID 83624

A summary of all agencies issuing orders, permits or otherwise have oversight:

ISRA activities at the SSFL are being performed pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by the RWQCB dated December 3, 2008. The RWQCB and DTSC provide oversight of the ISRA actions and participate in a weekly ISRA status call. The agencies also will provide onsite inspections during field work.

Ventura County Public Works Agency has oversight due to the grading permit requirements. Ventura County Public Works personnel will perform onsite inspections during field work.

Restoration actions will be performed in accordance with the Surface Water Expert Panel recommendations.

Contact persons for further information:

The Boeing Company:

Communications Manager: Kamara Sams	818-466-8793
Santa Susana Director: Thomas Gallacher	818-466-8161
ISRA Project Manager: Lori Blair	818-466-8741

MWH, Engineering Contractor

ISRA Program Director: Dixie Hambrick, PG  
ISRA Project Engineering Geologist: Jim Herbert, EG  
ISRA Project Civil Engineer: Lori Koch, PE  
ISRA Project Soils Engineer: Nelson Kawamura, GE

Contractor Selected to perform the ISRA action:

MP Environmental, Project Manager: Jim Hickle

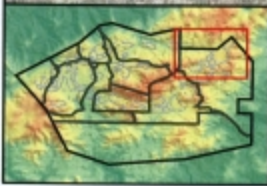
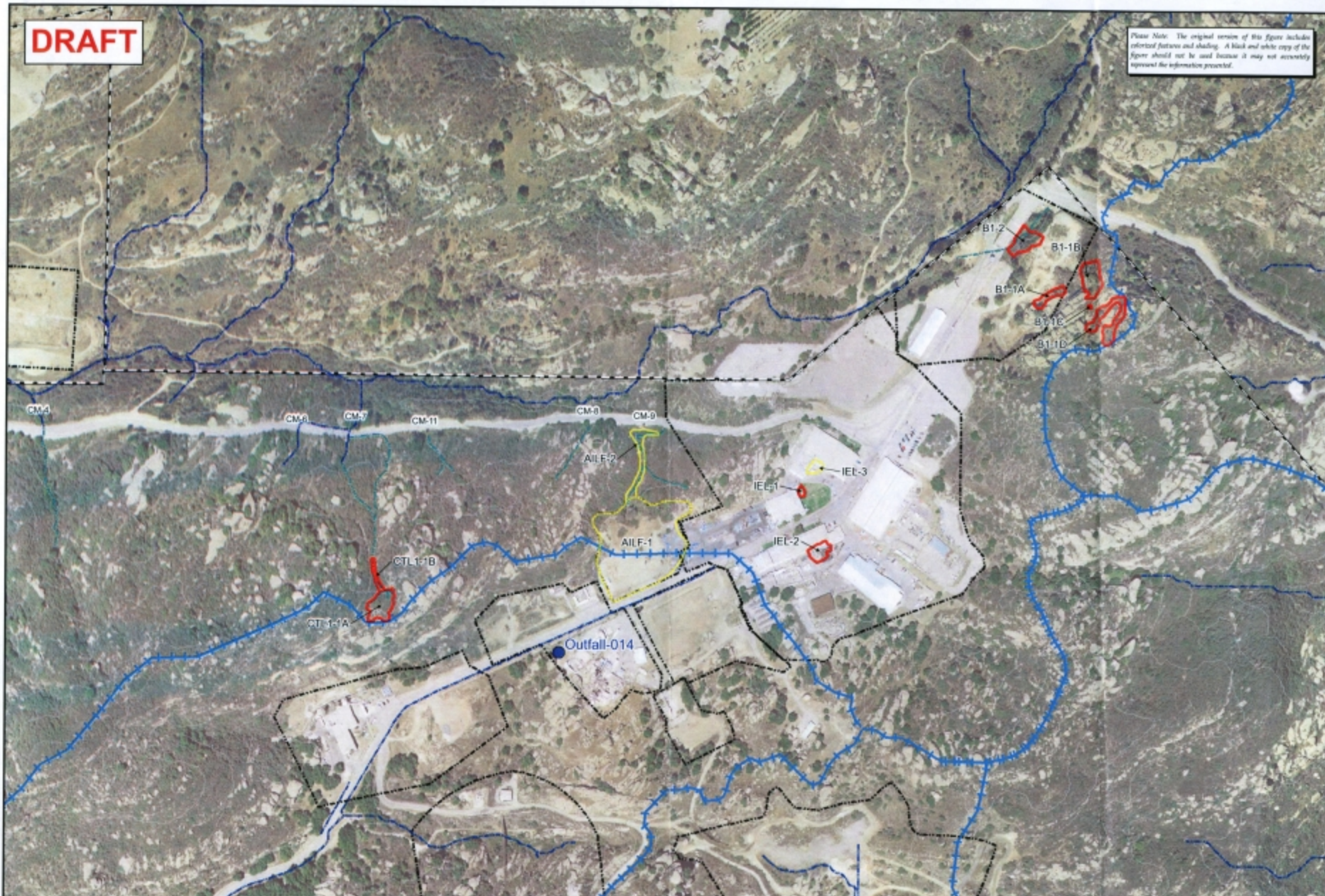
Ventura County Public Works Agency Contacts:

Construction Inspection Supervisor: Jim O'Tousa	805-654-2034
Senior Public Works Inspector: Bryan Tapking	805-654-3779



**DRAFT**

Please Note: The original version of this figure includes colored features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.



**Base Map Legend**

- Administrative Area Boundary
- RFI Site Boundary
- Surface Water Divide
- Drainage
- Non-Jurisdictional Surface Water Pathway
- Elevation Contour

**ISRA Evaluation Areas**

- 2010 ISRA Areas
- Deferred ISRA Areas

**Outfall 009 Preliminary ISRA Evaluation Areas**  
**SANTA SUSANA FIELD LABORATORY**

Document: ISRA\_Prel\_09\_Aerial\_062110.rvt Date: Jun 01, 2010

1 inch = 250 feet

0 250 500 Feet

MWH **FIGURE 2A**



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**From:** Alexander Fischl  
**Sent:** Tuesday, November 09, 2010 6:02 PM  
**To:** [bryan.tapking@ventura.org](mailto:bryan.tapking@ventura.org)  
**Cc:** Dixie Hambrick; Benjamin Stewart; Shelby Valenzuela; 'Jim.O'Tousa@ventura.org'  
**Subject:** SSFL (Boeing) ISRA Grading Permit #10270

Bryan,

I heard you were onsite last week (November 2nd) to observe the progress for the 2010 ISRA project. As you saw, work is ongoing in many of the areas and some are nearing completion. As a follow-up to your visit, below is a summary of our progress by area and our current schedule for completing the work, submitting Change Order Requests and closing out the grading permit.

**B1-1A, B1-1B, B1-1C, B1-1D, CTLI-1A, CTLI-1B, IEL-1** – Excavation at these areas is completed, post excavation survey has been performed, backfilling/restoration is underway, once completed, a post-restoration survey will be performed (expected completion date is late November/early December). Actual excavation was generally consistent with the Grading Plans; however, the actual excavation extent, depth, and earthwork quantities at each of these areas does vary slightly from the planned excavation due to the nature of a remediation style excavation (this is similar the situation last year, Grading Permit 10220). Therefore, once we have obtained the post-restoration survey data, we will be submitting a Change Order Request for these areas (you can expect to receive in Jan/Feb 2011).

**B1-2** – Excavation at this area is underway. As you saw during your visit, the current excavation extent at this area is much larger than the extent proposed in the Grading Plans (area does still meet the criteria for a ministerial grading permit). The increase is related to the removal of additional soils containing chemicals above our clean-up goals that were not identified at the time the grading plans were submitted. Following completion of excavation, a post excavation survey, backfilling/restoration, and a post-restoration survey will be performed (expected completion date is late December). We will be submitting a Change Order Request for this area once we have obtained the post-restoration survey data (you can expect to receive in Feb/Mar 2011).

**IEL-2** – Excavation at this area has been postponed until Spring 2011, after the rainy season. Therefore, we will not be closing out the grading permit until after completion of this ISRA, likely Summer 2011 (do you agree with this approach?).

**Soil Borrow Area** – Since submittal of the Grading Plans, a source of soil for backfilling excavations has been identified. Jim O'Tousa participated in teleconference in July 2010 during which this was discussed. I have identified on the cover page of the Grading Plans the location of the soil borrow area, in addition to providing a figure showing this area at a

larger scale (see attachments). The planned work at the Soil Borrow Area does meet the criteria for a ministerial grading permit. Once the need for additional soil for backfilling/restoration is met, the soil borrow area will be restored and a post-restoration topographic survey will be performed. We will be submitting a Change Order Request for this area, however, since soil from this area will be used to backfill IEL-2, we will not be submitting this Change Order Request until work at IEL-2 is completed, likely Summer 2011. Let me know if you would like any other information on this area.

Please let me know if you have any question or would like to discuss the above information in more detail.

Thank you,



**Alex Fischl, P.M.P**  
Project Manager /  
Environmental Scientist

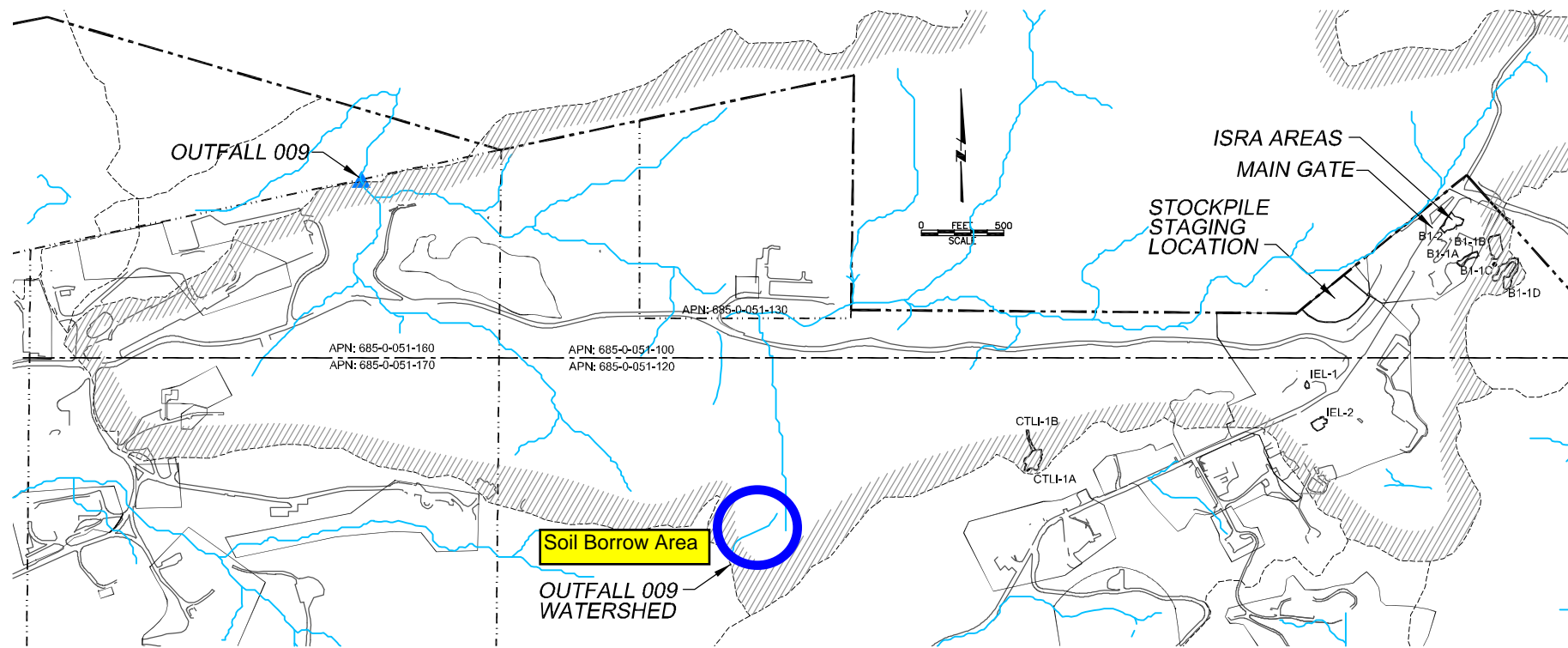
MWH Americas, Inc.  
2121 N. California Blvd.  
Suite 600  
Walnut Creek, CA 94596

Telephone: 925 627 4500  
Direct Line: 925 627 4627  
Cell Phone: 925 997 7384  
Fax: 925 627 4501

***BUILDING A BETTER WORLD***

# INTERIM SOURCE REMOVAL ACTIONS - OUTFALL 009 WATERSHED EXCAVATION PLANS

SANTA SUSANA FIELD LABORATORY  
VENTURA COUNTY, CALIFORNIA  
MAY 2010



## SHEET INDEX

- 1 COVER SHEET
- 2 TITLE, SITE LOCATION, LEGEND AND GENERAL NOTES
- 3 EXCAVATION PLANS: B1-1A, B1-1B, B1-1C, & B1-1D
- 4 EXCAVATION PLAN: B1-2
- 5 EXCAVATION PLANS: IEL-1 & IEL-2
- 6 EXCAVATION PLANS: CTLI-1A & CTLI-1B
- 7 CIVIL SECTIONS
- 8 TEMPORARY STOCKPILE LOCATION

## EARTHWORK QUANTITIES (PLANNED)

AREA	GRADED AREA (AC)	CUT/EXPORT- IN SITU (CY)	FILL/IMPORT- IN SITU (CY)	AVERAGE NATURAL SLOPE
B1-1A	0.09	280	280	46%
B1-1B	0.21	340	150	42%
B1-1C	0.004	12	12	31%
B1-1D	0.24	775	200	35%
B1-2	0.19	911	600	33%
IEL-1	0.02	61	61	1%
IEL-2	0.11	786	786	10%
CTLI-1A	0.22	706	350	19%
CTLI-1B	0.04	130	100	29%

## GENERAL NOTES:

1. CONTRACTOR SHALL EXCAVATE AREAS INDICATED TO MAXIMUM DEPTHS SPECIFIED ON ATTACHED DRAWINGS OR WEATHERED BEDROCK, WHICHEVER IS SHALLOWER.
2. CONTRACTOR SHALL MANAGE, TRANSPORT, AND DISPOSE OF EXCAVATED SOIL IN ACCORDANCE WITH THE ISRA SOIL MANAGEMENT PLAN AND ADDENDA.
3. EXCAVATION LIMITS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE ACTUAL LIMITS MAY VARY AS DIRECTED BY THE PROJECT ENGINEER, BASED ON THE RESULTS OF CONFIRMATION SAMPLING.
4. DISTURBED AREAS SHALL BE RESTORED USING LOCAL SOILS, AS NECESSARY AND AS DIRECTED BY THE PROJECT ENGINEER, TO ACHIEVE GRADES THAT WILL PREVENT PONDING OF STORMWATER AND REDUCE THE POTENTIAL FOR EROSION.
5. VEGETATION SHALL BE ESTABLISHED IN DISTURBED SOIL AREAS, AS NECESSARY AND AS DIRECTED BY THE PROJECT ENGINEER.
6. DISTURBED AREAS WILL INCORPORATE BMPs TO PREVENT SOIL PARTICLES FROM BEING TRANSPORTED FROM THE SITE, AS SPECIFIED IN THE ISRA STORM WATER POLLUTION PREVENTION PLAN AND AMENDMENT NO. 1.
7. ALL WORK WILL BE PERFORMED BETWEEN THE HOURS OF 7 a.m. AND 5 p.m. ON MONDAYS THROUGH FRIDAYS.
8. TOPOGRAPHIC CONTOURS ARE FROM LIDAR 2008.

## LEGEND (APPLIES TO SHEETS 3 THROUGH 6)

- ADMINISTRATIVE AREA BOUNDARY
- RFI SITE BOUNDARY
- PARCEL BOUNDARY
- SURFACE WATER DRAINAGE
- WATERSHED BOUNDARY
- ELEVATION CONTOUR
- ISRA AREA EXCAVATION
- ← SURFACE WATER FLOW DIRECTION
- COASTAL LIVE OAK TREE

WDID: 4 19C355816 APN: 685-0-051-100, -120 GP

REV.	DESCRIPTION OF REVISION	RCE	DATE	APP.	DATE
D					
C					
B					
A					



DRAWING PLOT SIZE = 36" X 22"

APPROVED: COUNTY OF VENTURA

BY: \_\_\_\_\_  
MANAGER, DEVELOPMENT SERVICES

DATE: \_\_\_\_\_

COUNTY OF VENTURA  
PUBLIC WORKS AGENCY  
DEVELOPMENT SERVICES

SPEC. NO.

PROJ. NO.

INTERIM SOURCE REMOVAL ACTIONS  
OUTFALL 009 WATERSHED EXCAVATION PLANS

TITLE, SITE LOCATION, LEGEND AND GENERAL NOTES











SHEET 2  
OF 8

DRAWING NO.





**Outfall 009  
2010 Boeing Soil Borrow Area  
Sample Locations**

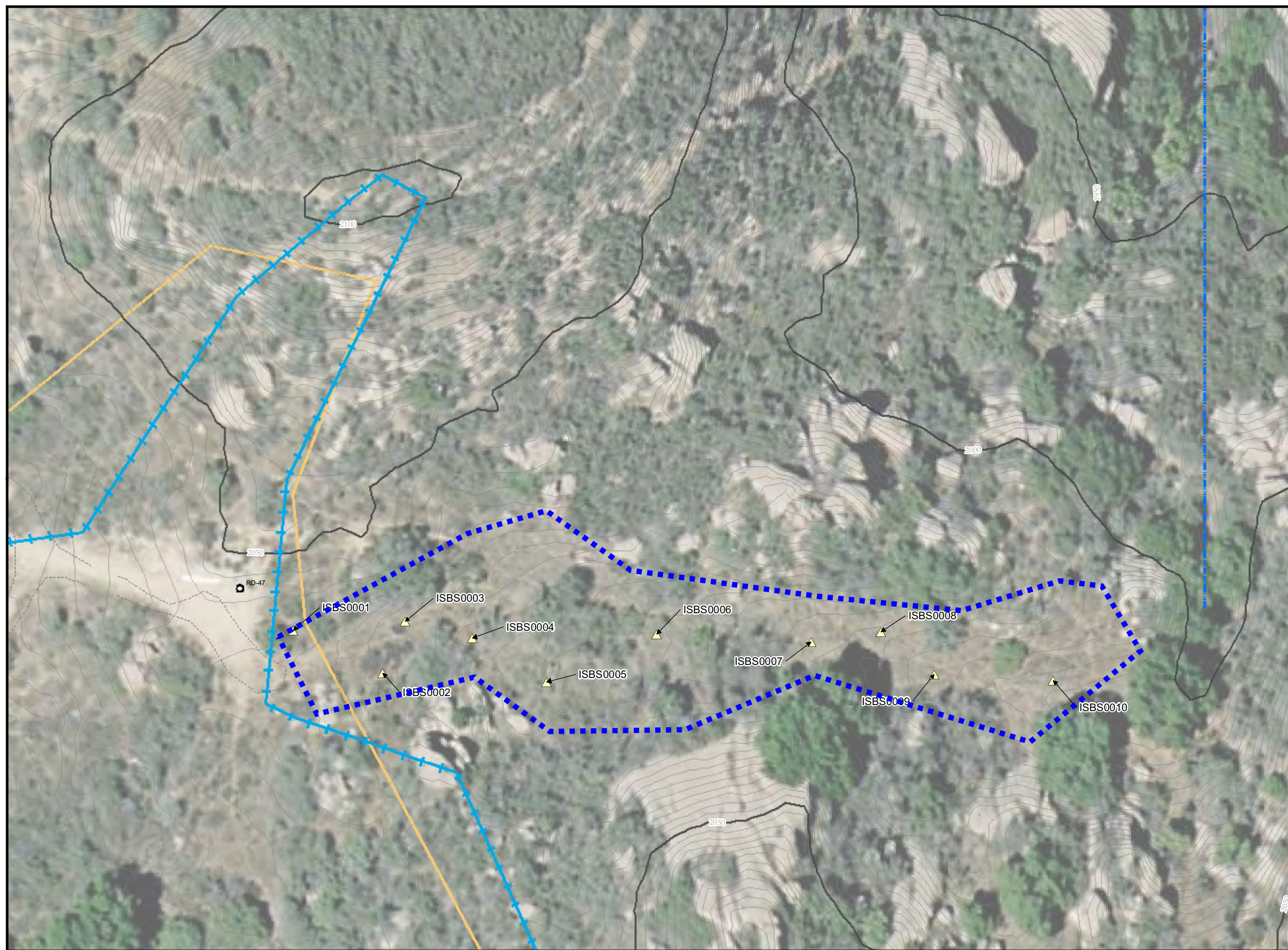
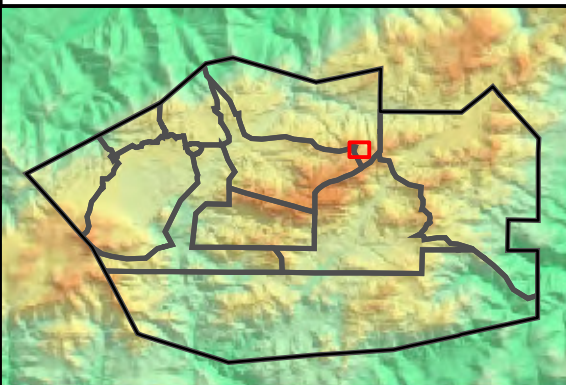
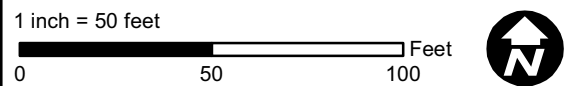
**Base Map Legend**

-  Administrative Area Boundary
-  RFI Site Boundary
-  Report Group Boundary
-  NPDES Outfall
-  Dirt Road
-  A/C Paving
-  Drainage
-  Non Jurisdictional Surface Water Pathway
-  Surface Water Divide
-  Elevation Contour

**Figure Legend**

-  Characterization Sample Location
-  Approximate extent of 2010 Boeing Soil Borrow Area

Document: ISRA\_Plots\_SP\_RD47\_SampleLocations\_060710.mxd Date: Jun 10, 2010







ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

May 20, 2010  
Project No. 0902-1042

Terry Newman  
Ventura County Planning Division  
800 S. Victoria Avenue  
Ventura, CA 93009

**Subject:**

**Oak Tree Assessment for the Interim Source Removal Action Areas within the Outfall 009 Watershed, Boeing Santa Susana Field Laboratory, Ventura County, California**

**Purpose:**

**Submittal to the County of Ventura Planning Division Required Permits for Removals and Encroachments**

**Site Information:**

**Assessor Parcel Nos. 685-0-051-100 & 685-0-051-120**  
**Permit No. CUP248**  
**Property Owner: Boeing North America**  
**100 North Riverside, Chicago, IL**

**Understanding of the Project**

The proposed project is located within the watershed for Outfall 009 at the Santa Susana Field Laboratory (SSFL), which is located in southeastern Ventura County, near the crest of the Simi Hills at the western border of the San Fernando Valley (see Figure 1). The proposed project involves the evaluation and remediation of impacted soils (Interim Source Removal Action, or ISRA) as directed by the Cleanup and Abatement Order (Order) adopted by the Los Angeles Regional Water Quality Control Board (LARWQCB) on December 3, 2008 (RWQCB, 2008). The Order requires Boeing to evaluate, select, and implement cleanup activities at areas within Outfall 009. Work activities for the project are also authorized under California Department of Fish and Game (CDFG) Streambed Alteration Agreement No. 1600-2003-5052-R5 (and its extensions and amendments).

This Oak Tree Assessment has been prepared to address the specific tree impacts as directly related to the ISRA project, and as part of the required documentation for oak tree permit submittal to the County of Ventura Planning Department. County Zoning Ordinance no. 8107-25 (Tree Protection Regulations) considers oak trees (including coast live oak) at least 9.5 inches (single trunk) or 6.25 inches (multi-trunk) in circumference (3 or 2 inches in diameter, respectively) as County protected trees. In addition, trees with a circumference of 90 inches (29

inches in diameter) or greater are considered to be “heritage” trees. Oak tree protection regulations extends not only to the removal of oak trees, but invasion (encroachment) of the tree’s protected zone by activities including trenching, digging, or placement of heavy equipment, vehicles, or materials within the protected zone. The protected zone is defined as the surface and subsurface area within the dripline and extending a minimum of five (5) feet outside the dripline, or 15 feet from the trunk of the tree, whichever is greater. The County Tree Protection Ordinance also protects western sycamore (*Platanus racemosa*), which are absent from the ISRA Areas. Therefore, no impacts to western sycamore will occur.

Encroachment, and limb and root pruning of up to 25 coast live oak trees on Boeing property may occur as a result of the ISRA project. Complete removal of any of these trees is not anticipated at this time. For project activities around oak trees on Boeing property, all measures described in the County’s Tree Protection and Preservation Guidelines provided below will be implemented.

**Discussion**

Field biological evaluations of 25 trees were conducted by Chris Dunn, Padre Associates, Inc. Biologist on March 24, 25, and 26, and April 15 and 16, 2010, and included photographic documentation of each tree and their location. Table 1 below provides data on each tree including diameter, height, width, an evaluation rating (vigor-health-aesthetics rated as 1 being the highest and 5 being the lowest rating), specific observations on condition, and anticipated impacts associated with the ISRA project. Photographs of each tree are provided in a separate appendix below.

**Table 1. Coast Live Oak Tree Data at the Boeing ISRA Areas**

<b>Tree Number</b>	<b>Diameter (inches)</b>	<b>Height (feet)</b>	<b>Width (feet)</b>	<b>Evaluation Rating* (Vigor-Health-Aesthetics)</b>	<b>Condition</b>	<b>Anticipated Impact</b>
<b>ISRA Area B1-1</b>						
B1-1-CLO1	3.5, 3.5	18	8	2-2-4	Vigorous new growth	Temporary encroachment, potential root zone impacts
B1-1-CLO2	6, 7	22	15	4-4-4	Deadwood, thinning crown, dieback, broken branches	Temporary encroachment, potential root zone impacts

**Table 1. Continued**

<b>Tree Number</b>	<b>Diameter (inches)</b>	<b>Height (feet)</b>	<b>Width (feet)</b>	<b>Evaluation Rating* (Vigor-Health-Aesthetics)</b>	<b>Condition</b>	<b>Anticipated Impact</b>
<b>ISRA Area B1-2</b>						
B1-2-CLO1	8, 16	25	35	2-2-2	Vigorous new growth, low branching	Possible avoidance, temporary encroachment, potential root zone impacts
B1-2-CLO2	6	15	16	2-3-2	Vigorous new growth, dieback	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO3	5, 6	18	20	2-2-2	Deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO4	3	10	4	2-4-3	Lopsided canopy, ants	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO5	7, 6	20	18	3-3-3	Dieback, low branching deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO6	5	18	6	3-3-4	Low branching	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO7	6	18	12	3-3-3	Low branching	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO8	4	16	4	4-4-4	Shaded	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO9	12	25	20	4-4-3	Wound, low branching, lopsided canopy	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO10	21	30	35	2-2-2	Lopsided canopy, low branching, deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO11	10, 14	32	35	2-2-2	Low branching, deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO12	15, 15	28	38	2-2-2	Woodpecker drilling, galls, dieback	Temporary encroachment, pruning, potential root zone impacts



**Table 1. Continued**

<b>Tree Number</b>	<b>Diameter (inches)</b>	<b>Height (feet)</b>	<b>Width (feet)</b>	<b>Evaluation Rating* (Vigor-Health-Aesthetics)</b>	<b>Condition</b>	<b>Anticipated Impact</b>
B1-2-CLO13	10, 12, 14	28	35	2-2-2	Dieback, steep slope	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO14	2.5	12	3	3-3-4	Fungus, low branching, deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO15	2.5	12	3	3-3-4	Fungus, low branching, deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO16	4	12	4	3-3-4	Fungus, low branching, deadwood	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO17	6	18	15	2-2-3	Low branching, steep slope	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO18	6	21	12	2-2-3	Low branching, dieback, steep slope	Temporary encroachment, pruning, potential root zone impacts
B1-2-CLO19	8	25	15	3-3-4	Lopsided canopy, poison oak vine	Temporary encroachment, potential root zone impacts
B1-2-CLO20	5	20	8	3-3-4	Lopsided canopy	Temporary encroachment, potential root zone impacts
B1-2-CLO21	6	20	8	3-3-4	Lopsided canopy	Temporary encroachment, potential root zone impacts
B1-2-CLO22	4	12	10	2-2-3	Low branching	Temporary encroachment, potential root zone impacts
<b>ISRA Area A1LF-1</b>						
A1LF-1-CLO1	7	25	15	3-4-4	Deadwood, low branching, fire damage	Temporary encroachment, potential root zone impacts

Evaluation Rating: Vigor-Health-Aesthetic Value, each on a numerical scale of 1 to 5 (1 or 2: excellent or good, 3: average, 4: poor, 5: very poor or dead)

m: multi-trunk, as indicated by > 1 diameter measurement

\*\* : Heritage tree (diameter is > 29 inches)

As noted in Table 1 above, branch dieback, deadwood, lopsided canopies, historical fire damage, low branching, and herbaceous or animal pests are common conditions of the trees inspected at the ISRA Areas. However, substantial new vegetative growth and flowering was observed on many of these trees, indicating that many of these trees have recovered from fire

damage in 2005, and are relatively healthy. No heritage trees were noted within the Boeing ISRA Areas. Based on the project plans to protect all trees in place (resulting in no tree removals, and requiring no tree replacements), appraised tree values are not provided at this time, but can be provided upon request.

Enclosed is a copy of the Preservation and Protection Guidelines applicable to this project that shall be included in all documents relative to the direct on site project work. Also, a copy is required to be available on site prior to commencement of any work and shall be maintained on site until the project is approved as completed.

All work within the protected zone of any preserved oak trees shall be monitored by the project Biologist and/or Certified Arborist. All monitoring shall require a 48-hour minimum advanced notice to the project Biologist and/or the Certified Arborist. This may be provided by telephone or email. Work may not proceed until the appropriate staff is present to monitor the work. Field notes will be taken daily, and a post-construction report will be completed and filed with all the responsible parties directly involved requiring notifications and documentations.

The oak tree report above, along with all field data and photographs have been reviewed and approved by the following ISA Certified Arborist:



**Donald F. Rodrigues**  
**Horticulture Consultant**  
**ISA Certified Arborist 272**

Should you have any questions regarding this Report, please contact me at your earliest convenience at (805) 644-2220, extension 12.

Sincerely,

**Padre Associates, Inc.**



**Chris Dunn**  
**Project Biologist**

## **TREE PROTECTION AND PRESERVATION GUIDELINES**

## **TREE PROTECTION AND PRESERVATION GUIDELINES**

1. All persons working on the project shall exercise extreme awareness and care to protect existing trees to be preserved. Tree protection conditions shall be posted in a conspicuous location on-site.
2. All tree reports, tree location and numbering maps, approved permitted conditions, and the City, County or other jurisdictional agencies or organizations Tree Protection and Preservation Guidelines and/or Ordinances shall be maintained on-site during all phases of grading and construction.
3. The Project Superintendent shall be responsible for instructing all site workers of the tree preservation requirements and shall be responsible for enforcement of the tree protection guidelines and/or ordinances.
4. Protective fencing shall be placed prior to grading and construction per the tree evaluation report and plans. Fencing shall meet the requirements of the municipality protection ordinance. Generally, chain link fencing is required a minimum of 5' outside of the drip line. Weather proof informative signs are required every 50' on the fencing. The required sign wording is generally described in the guidelines or ordinance. The fence shall be placed prior to grading and shall remain in place until the completion of construction. The fence may not be moved, altered or removed without the written consent of the responsible permitting agency and/or the project ISA Certified Arborist.
5. A pre-construction meeting shall be held with the contractor, construction supervisor, project arborist, landscape architect and responsible permit approval jurisdictional representative prior to construction to review the tree protection specifications and the preservation protocol.
6. No excavation, grading or construction shall be allowed inside the protected zone of any tree without an approved encroachment permit from the City, County or other jurisdictional agencies or organizations. All approved work shall be conducted with hand equipment only. All roots over 2" in diameter shall be saved and immediately covered with a minimum of 6" clean washed sand. Those roots to be severed shall be clean cut with pruning tools to the edge of the excavation and immediately covered with soil then provided irrigation. Roots to be in



- direct contact with concrete shall be wrapped in styrofoam prior to pouring the concrete. All work under any preserved tree shall be under the direct on-site observation of the project ISA Certified Arborist. All work conducted shall be certified to the Jurisdictional permitting party by the ISA Certified project Arborist as having been completed per the approved project conditions and permits.
7. The project ISA Certified Arborist and Jurisdictional permitting party shall be notified 48 hours in advance of any proposed work within the protected zone of any tree. Work may not proceed until the appropriate staff is present to monitor the work.
  8. The project ISA Certified Arborist shall be responsible for monitoring all preserved trees for compliance with the mitigations and protection requirements. A filed report shall be prepared for each site visit and submitted to the project owner and the responsible Jurisdictional party within 48 hours of the completed site observations.
  9. All pruning shall be accomplished by a qualified arborist and work shall conform to the requirements of the Jurisdictional permitting party. Pruning specifications shall equal or exceed those recommended by the International Society of Arboriculture. Deadwood may be removed as needed. Live wood pruning over 2” in diameter requires an arborist report and approved permit from the Jurisdictional party. All pruning of live wood shall be under the direct on-site observation and direction of the project ISA Certified Arborist.
  10. No materials shall be nailed or staked to any preserved tree. No materials or equipment shall be stored within the protected zone of any site preserved tree. No oil, gasoline, chemicals, paints or other deleterious materials may be used, dumped or stored under the protected zone of any preserved tree. No substance shall be deposited into the soil, including waste water that can drain or leach into any preserved tree root zone.
  11. All grading within the location of any preserved tree shall be constructed in a manner to prevent water from runoff or draining that can accumulate under the protected zone of any preserved tree.
  12. Trees requiring specific disease, insect or rodent control shall have the work completed upon a written recommendation by a California Pest Control Advisor and the work shall be completed by a licensed California Pest Control Operator registered in the county for which the work is to be performed.

13. Landscape planting, irrigation systems and/or utilities shall not be designed and/or installed within the protected zone of any tree unless approved by the jurisdictional party.
14. During all phases of construction, the health of the tree(s) shall be monitored and maintained as required to ensure continued survival.
15. Any changes in the project will require review by the project ISA Certified Arborist to ensure that the conditions of these guidelines continue to be valid.
16. Prior to issuance of a grading permit, the applicant's ISA Certified Arborist, Architect and Landscape Architect shall review the grading plans and acknowledge in writing to the jurisdictional parties that the proper mitigations and measures have been designed into the plans. The standard protection measures shall be listed on the grading plans.
17. The contractor and/or project owner shall be liable for tree damages due to his/her operations or neglect of these provisions as determined by the project ISA Certified Arborist and the Jurisdictional party.
18. If accidental damage occurs to any protected tree, the project superintendent shall immediately notify the project ISA Certified Arborist and shall perform all remedial work as determined and directed by the ISA Certified Arborist.
19. Where feasible, the protected zone of all trees shall be provided a 3" layer of wood chip mulch. The mulch shall be placed 36" from the tree trunk and spread throughout the protected zone in a uniform stratum.

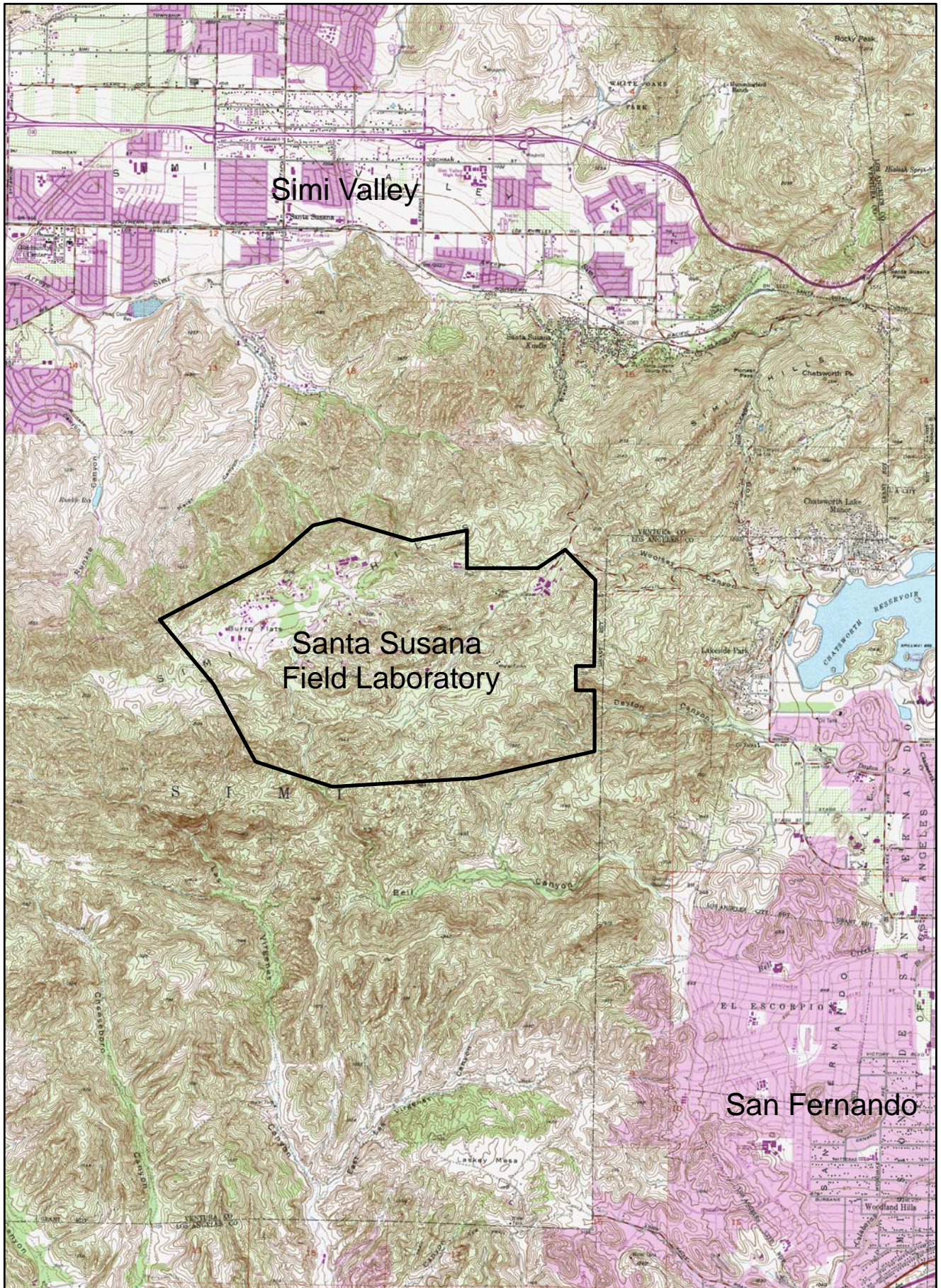
Note: These Tree protection and preservation guidelines may be modified by Individual development planer's and jurisdictional agency parties as required to meeting their specific requirements or site conditions.

End

Pacific Horticulture Consultants  
1000 Wood Stock Lane  
Ventura, California 93001  
(805) 6411-3931 641-0122 fax  
[pachort@earthlink.net](mailto:pachort@earthlink.net)

**SITE LOCATION MAP**





Simi Valley

Santa Susana  
Field Laboratory

San Fernando

Figure 1  
Project Site Location  
Santa Susana Field Laboratory



**OAK TREE PHOTOGRAPHS**



Tree B1-1-CLO1



Tree B1-1-CLO2



Tree B1-2-CLO1



Tree B1-2-CLO2





Tree B1-2-CLO3

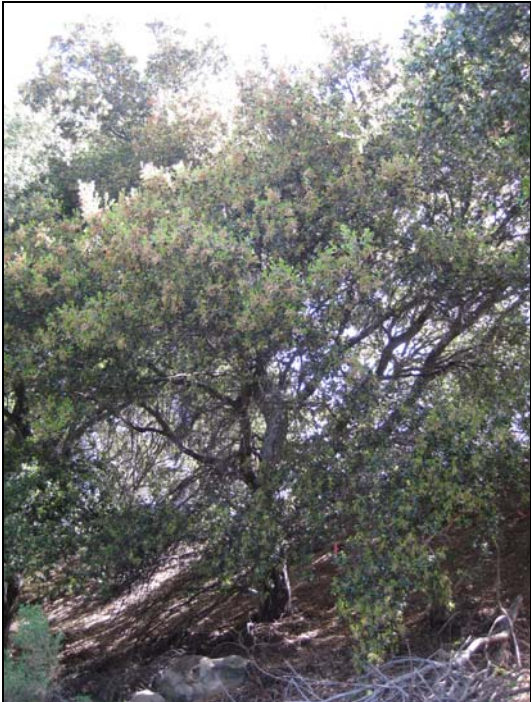


Trees B1-2-CLO4, 5, 6, 7, and 8

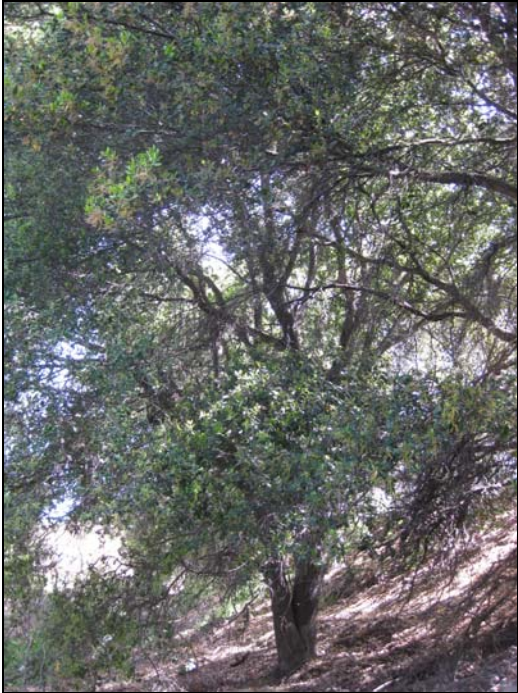




Tree B1-2-CLO9



Tree B1-2-CLO10



Tree B1-2-CLO11



Tree B1-2-CLO12





Tree B1-2-CLO13



Trees B1-2-CLO14, 15, 16, 17, and 18



Tree B1-2-CLO19, 20, and 21



Tree B1-2-CLO22



Tree A1LF-1-CLO1



# county of ventura

June 9, 2010

Mr. Donald Rodrigues  
Pacific Horticulture  
1000 Wood Stock Lane,  
Ventura, Ca. 93001

**RE: Letter of Exemption:**

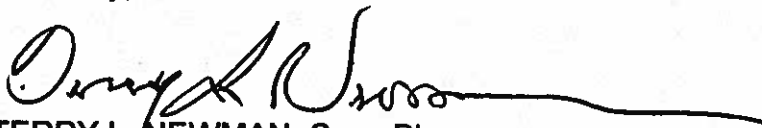
Removal of contaminated soil from the protected zones of 25 oak trees as required by the Los Angeles Regional Water Quality Control Board (RWQCB). Removal Action Areas located within the Outfall 009 Watershed, Boeing Santa Susana Field Lab, (Ref.: CUP248, APN# 685-0-051-100 and 685-0-051-120)

Dear Mr. Rodrigues,

This letter acknowledges your submittal of the additional information needed to complete the application process, allow for an exemption to be granted, and allow the RWQCB contaminated soil removal to proceed. Note that should the project description be amended, it may be subject to supplemental review by the County of Ventura.

If you have any questions regarding this limited exemption, please contact me at (805) 654-3136 or via email at [terry.newman@ventura.org](mailto:terry.newman@ventura.org).

Sincerely,



TERRY L. NEWMAN, Case Planner  
Land Use/Permits Section

C: Chris Dunn, Padre Associates Inc., 1861 Knoll Drive, Ventura, Ca. 93003  
Case File





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**From:** Chris Dunn [<mailto:cdunn@PADREINC.com>]

**Sent:** Wednesday, December 01, 2010 3:03 PM

**To:** Donald F. Rodrigues; Bronwyn Kelly; Shelby Valenzuela; [lori.n.blair@boeing.com](mailto:lori.n.blair@boeing.com); Fuentes, Gilbert L

**Subject:** Soil excavation beneath oaks at SSFL B1-2

Hi Don,

Attached are a couple photos of a Boeing ISRA site that is undergoing soil removal. Approximately 1 to 1.5 feet of soil has already been removed from beneath the canopy of the trees, and an additional 4 feet has been excavated down the adjacent swale which borders the canopy edge (encroaching about 3 feet beneath the canopy). As can be observed in the photos, some root impacts have already occurred, and we've cut any exposed root ends off at the exposed point (after the photos were taken).

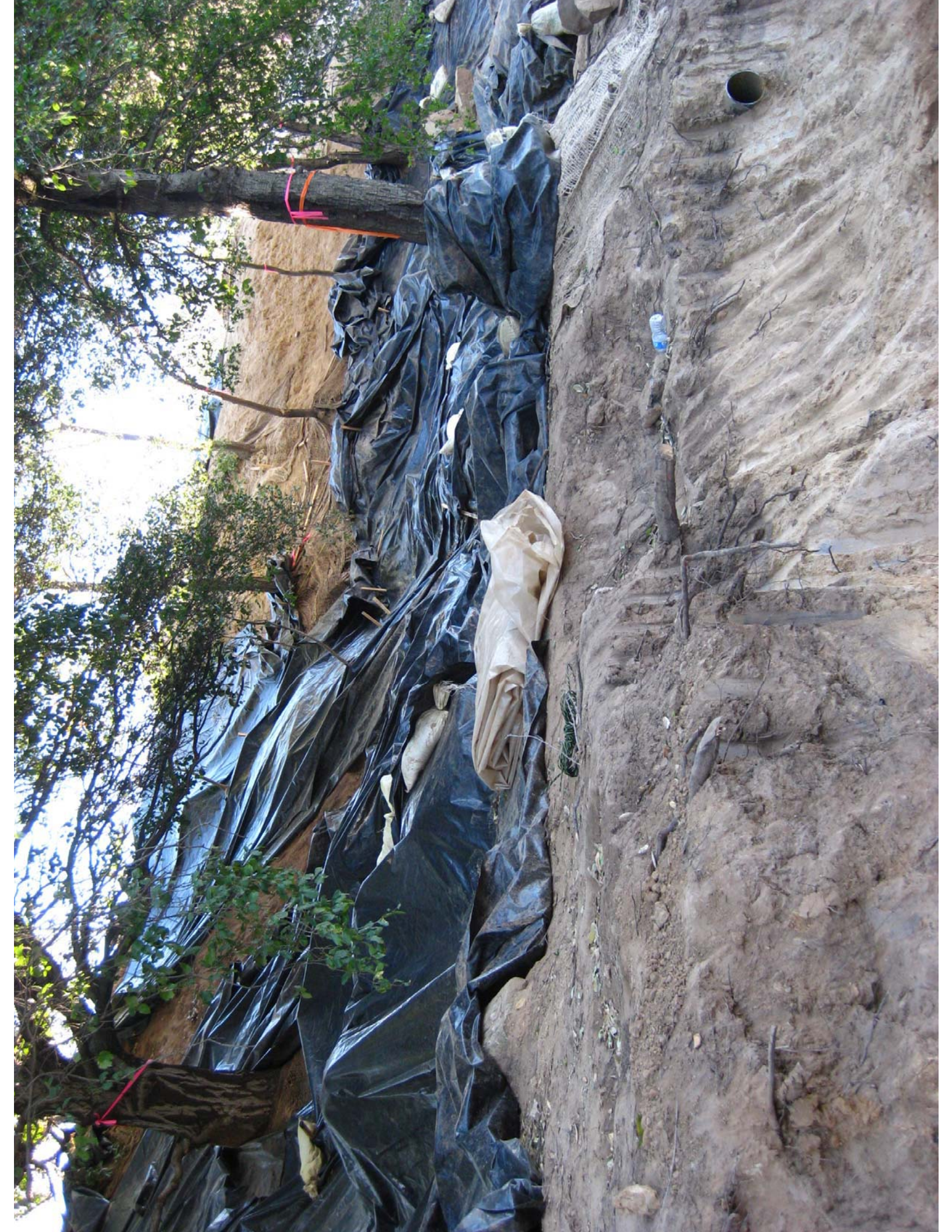
Based on the soil sample results, additional soil removal is required, but only if it won't permanently affect the oak trees. Once completed, soil will be backfilled beneath the trees and in the swale. My opinion, as expressed today to staff onsite was that additional soil removal may likely affect these trees; exposing or damaging roots, and possibly making them unstable should high winds occur. Also, impacts to trees are not always seen for some time.

What's your opinion on just how much more material, if any can be taken from beneath these trees without injuring them? If you feel it's necessary, are you available to come up to the site to provide a second opinion?

Thanks,

Chris Dunn  
Project Manager/Biologist  
Padre Associates, Inc.  
1861 Knoll Drive  
Ventura, CA 93003  
(805) 644-2220 x12  
(805) 644-2050 fax  
(805) 218-2658 cell













# PACIFIC HORTICULTURE

DIVISION OF DELTA PACIFIC HORTICULTURE, INC.

LANDSCAPE AND AGRONOMY CONSULTANTS

December 8, 2010

Padre Associates  
1861 Knoll Drive  
Ventura, California 93003

Attention: Chris Dunn  
Project Manager/Biologist

**Subject: Soil excavation beneath Oaks at Boeing ISRA site SSFL B1-2**

I received your correspondence and photographs dated December 1, 2010 relative to the work in progress at the subject site. In addition, I conducted a site review with you and Shelby Valenzuela on December 3, 2010.

In summary, based on my site observations I concur with your report that any additional existing soil removal is not recommended in the excavation areas. Currently it is evident that there are significant exposed and damaged roots and further depth of soil removal will not only expose roots but also potentially cause instability of the major tree support structure.

It should also be noted from my site observations that the trees are planted on a slope and the down slope area where excavations are occurring will have the most extensive buttress and support root system compared to the top of the slope. Continued root removal will cause lack of absorptive transport of water and nutrients to the canopy branch and foliage structure and thereby can cause the decline and potential demise of the trees.

Should have any questions or should you require additional information, do not hesitate in calling me direct.

Respectfully Submitted,

Donald F. Rodrigues

ISA Professional Arborist No. 4816

ISA Certified Arborist, Emeritus

ISA Western Chapter Member No – CH-00676

---

**From:** Chris Dunn [cdunn@PADREINC.com]  
**Sent:** Thursday, December 16, 2010 10:36 AM  
**To:** Shelby Valenzuela; Donald F. Rodrigues  
**Cc:** Blair, Lori N; Alexander Fischl; Benjamin Stewart; Dixie Hambrick  
**Subject:** RE: B1-2 Additional Excavation/Confirmation Sampling

Shelby,

Based on the amount of material already excavated beneath these trees, I believe that Don's assessment to curtail any further excavation also applies to these trees. Many of the trees main roots and smaller absorptive roots are exposed. It's recommended that these areas be backfilled as soon as feasible.

Chris Dunn  
Project Manager/Biologist

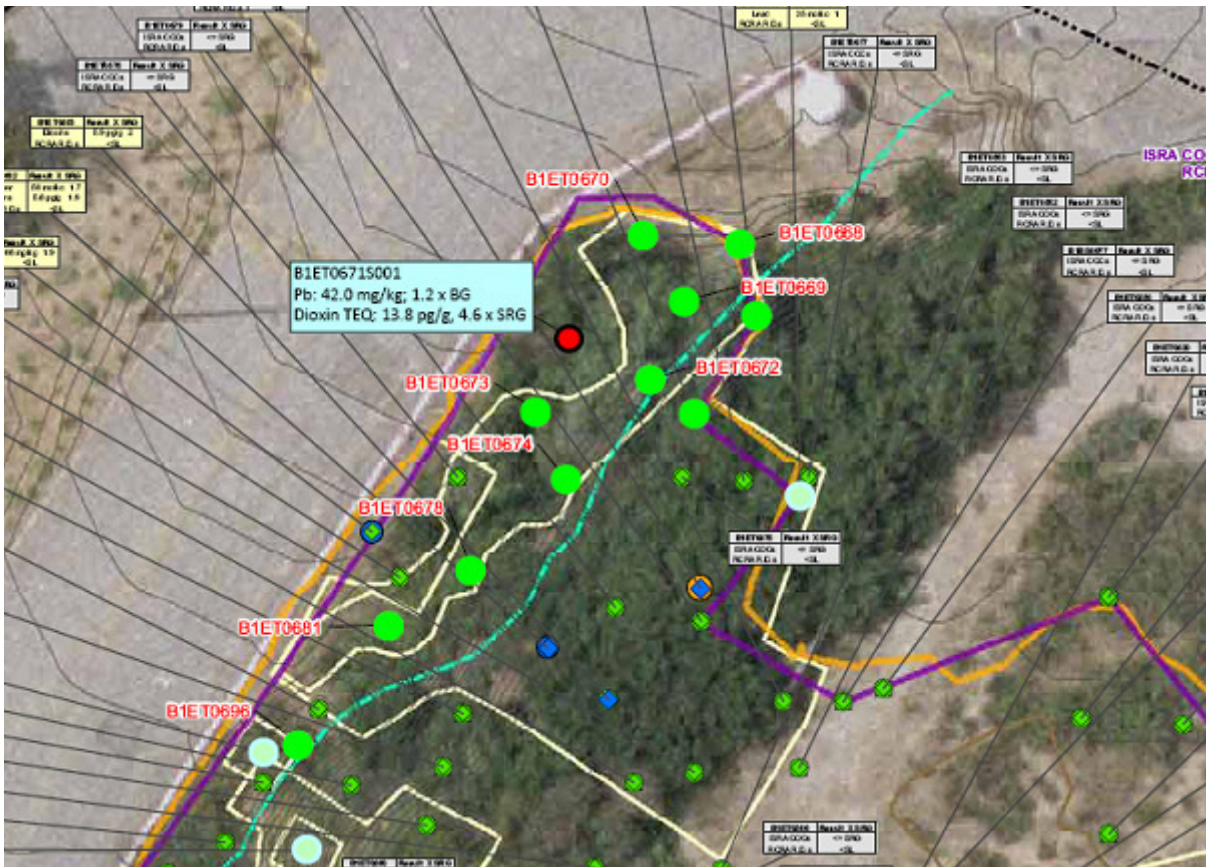
Padre Associates, Inc.  
1861 Knoll Drive  
Ventura, CA 93003  
805.644.2220 x 12 (office)  
805.644.2050 (fax)  
805.218.2658 (cell)

---

**From:** Shelby Valenzuela [<mailto:Shelby.R.Valenzuela@us.mwhglobal.com>]  
**Sent:** Thursday, December 16, 2010 7:37 AM  
**To:** Chris Dunn; Donald F. Rodrigues  
**Cc:** Blair, Lori N; Alexander Fischl; Benjamin Stewart; Dixie Hambrick  
**Subject:** FW: B1-2 Additional Excavation/Confirmation Sampling

Chris/Don,

We have a soil sample result that exceeds our SRGs for lead and dioxins underneath the oak trees located near the street in the B1-2 drainage area. See the red dot in the screen shot below. Do you know if we can continue to excavate in this area without hurting the oak trees?



Thanks for your help.

Regards,  
 Shelby

Shelby Valenzuela, P.G.  
 Senior Geologist  
 MWH  
 618 Michillinda Avenue, Suite 200  
 Arcadia, California 91007  
 Work phone 626-568-6365  
 Cell phone 626-255-0503

 Please consider the environment. Do not print this email unless it is necessary.

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**From:** Alexander Fischl  
**Sent:** Wednesday, December 15, 2010 3:48 PM  
**To:** Mazhar Ali; Peter Raftery; Cassandra Owens  
**Cc:** 'Buck King'; Blair, Lori N; Shelby Valenzuela; Dixie Hambrick; Benjamin Stewart  
**Subject:** B1-2 Additional Excavation/Confirmation Sampling

RWQCB,

We received the validation results for the 2 dioxins above SRGs near the monitoring wells on the flats and both are still slightly above SRGs for dioxins (3.41 pg/g and 3.23 pg/g). In addition, we just received internal split data and there was one sample above SRGs where the primary was below SRGs (B1ET0656 had Cu at 43 mg/kg). We are planning to



perform additional excavation to remove these 3 samples tomorrow morning, and collect confirmation samples tomorrow afternoon. The attached figure shows the extent of additional excavation (blue dashed boundaries). At Area 1, a sidewall sample exceeded, so we will be excavating laterally, not vertically. At Areas 2 and 3, we will be excavating an additional 6" to 1' since results close to background.

Please let me know if you would like to collect split samples. We would like to sample tomorrow so we can get samples to lab ASAP.

Thanks,



**Alex Fischl, P.M.P**  
Project Manager /  
Environmental Scientist

MWH Americas, Inc.  
2121 N. California Blvd.  
Suite 600  
Walnut Creek, CA 94596

Telephone: 925 627 4500  
Direct Line: 925 627 4627  
Cell Phone: 925 997 7384  
Fax: 925 627 4501

***BUILDING A BETTER WORLD***



## State Water Resources Control Board



**Linda S. Adams**

Secretary for  
Environmental  
Protection

**Division of Water Quality**

1001 I Street o Sacramento, California 95814 o (916) 341-5536  
Mailing Address: P.O. Box 1977 o Sacramento, California o 95812-1977  
FAX (916) 341-5543 o Internet Address: <http://www.waterboards.ca.gov>  
Email Address: [stormwater@waterboards.ca.gov](mailto:stormwater@waterboards.ca.gov)

**Arnold Schwarzenegger**  
Governor

**Approved Date:** 07/21/2009

Paul Costa  
Boeing Co  
5800 Woosley Canyon Rd MC T 487  
Canoga Park, CA 91304

### RECEIPT OF YOUR NOTICE OF INTENT (NOI)

The State Water Resources Control Board (State Water Board) has received and processed your NOI to comply with the terms of the General Permit for Storm Water Discharges Associated with Construction Activity. Accordingly, you are required to comply with the permit requirements.

The Waste Discharger Identification (WDID) number is: **4 19C355816** .  
Please use this number in any future communications regarding this permit.

### SITE DESCRIPTION

**OWNER:** Boeing Co  
**DEVELOPER:** Boeing Co  
**SITE INFORMATION:** Interim Source Removal Action ISRA Project  
**SITE LOCATION:** 5800 Woosley Canyon Rd Canoga Park, CA 91304  
**COUNTY:** Los Angeles  
**TOTAL DISTURBED ACRES:** 1.8  
**START DATE:** 07/27/2009  
**COMPLETION DATE:** 10/21/2009

When construction is complete or ownership is transferred, **dischargers are required to submit a Notice of Termination (NOT)** to the local Regional Water Board. All State and local requirements must be met in accordance with Special Provision No. 7 of the General Permit. If you do not submit a NOT when construction activity is completed you will continue and are responsible to pay the annual fee invoiced each July.

If you have any questions regarding permit requirements, please contact your Regional Water Board at **(213) 576-6600**. Please visit the storm water web page at [www.waterboards.ca.gov/stormwtr/index.html](http://www.waterboards.ca.gov/stormwtr/index.html) to obtain an NOT and other storm water related information and forms.

Sincerely,

Storm Water Section  
Division of Water Quality

*California Environmental Protection Agency*