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.

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

It is required that each applicant file the following:
1. A certificate of 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 of Workman's Compensation Insurance Policy No. C-45702-189, 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 Workmen'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 ___________________________ Date: 5/17/10

PWA-143 (Rev. 9/07)
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
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:


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
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
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

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 CONSTRUCTION SAMPLING.
4. DISTURBED AREAS SHALL BE RESTORED USING LOCAL SOILS, AS NECESSARY AND AS DIRECTED BY THE PROJECT ENGINEER.
5. VEGETATION SHALL BE ESTABLISHED IN DISTURBED SOIL AREAS, AS NEEDED AND AS DIRECTED BY THE PROJECT ENGINEER.
6. DISTURBED AREAS WILL INCORPORATE BVPs TO PREVENT SOIL PARTICLES FROM BEING TRANSPORTED FROM THE SITE, AS SPECIFIED IN THE ISRA EROSION CONTROL PLAN AND ADDENDUM 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.

EARTHWORK QUANTITIES (PLANNED)

<table>
<thead>
<tr>
<th>AREA</th>
<th>GRADED AREA (AC)</th>
<th>CUT/EXPORT IN SITU (CY)</th>
<th>FILL/IMPORT IN SITU (CY)</th>
<th>AVERAGE SLOPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1-1A</td>
<td>0.09</td>
<td>280</td>
<td>280</td>
<td>46%</td>
</tr>
<tr>
<td>B1-1B</td>
<td>0.21</td>
<td>340</td>
<td>150</td>
<td>42%</td>
</tr>
<tr>
<td>B1-1C</td>
<td>0.004</td>
<td>12</td>
<td>12</td>
<td>31%</td>
</tr>
<tr>
<td>B1-1D</td>
<td>0.24</td>
<td>775</td>
<td>200</td>
<td>35%</td>
</tr>
<tr>
<td>B1-2</td>
<td>0.19</td>
<td>511</td>
<td>600</td>
<td>33%</td>
</tr>
<tr>
<td>EL-1</td>
<td>0.02</td>
<td>61</td>
<td>61</td>
<td>1%</td>
</tr>
<tr>
<td>EL-2</td>
<td>0.11</td>
<td>788</td>
<td>788</td>
<td>10%</td>
</tr>
<tr>
<td>CTL1-1A</td>
<td>0.22</td>
<td>708</td>
<td>350</td>
<td>19%</td>
</tr>
<tr>
<td>CTL1-1B</td>
<td>0.04</td>
<td>130</td>
<td>100</td>
<td>29%</td>
</tr>
</tbody>
</table>

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

MWH
COUNTY OF VENTURA PUBLIC WORKS AGENCY
DEVELOPMENT SERVICES

OUTFALL 009 WATERSHED EXCAVATION PLANS

MAY 2010

WOD: 4-19C555816 APR: 685-0-051-100, -120 CP
Outfall 009
2010 Boeing Soil Borrow Area
Sample Locations

Base Map Legend
- Administrative Area
- 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

S A N T A S U S A N A F I E L D L A B O R A T O R Y

FIGURE 2
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 extend 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**

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

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

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

Sincerely,

TERRY L. NEWMAN, Case Planner  
Land Use Permits Section

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

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.

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,
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: **419C355816**.
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 to obtain an NOT and other storm water related information and forms.

Sincerely,

Storm Water Section  
Division of Water Quality  

*California Environmental Protection Agency*