9/30/2011		OUTGOING		Environmental	
				SHEA-111479	
**e-mail must be sent by author of letter					
ALLEN M. H. AMAR R. ARMENOFF T. AUBUCHON D. F.	055-T487 055-T487 055-T487 055-SS25	GALLACHER T. GALVEZ L.	055-T487 055-T487	ROGERS S. RUSAK S. E. RUTHERFORD P. D.	Legal Legal 055-T487
		HORTON S. W. (Renton)	6R7-01	SAMS K. SCOTT J. R. SCOTT R. P.	055-T487 055-T487 D851-0097
BIRRER N. L. BOETTNER A. BOURQUET R. BOWER M.	055-T487 110-SE17 055-T487 055-T487		055-T487	SHEA LIBRARY SHESTAG S. L. SORRELS E. SPENARD M. STOLLAR K.	055-T487 055-T487 055-T487 055-T034 110-SB33
COSTA P. J.	055-T487	KRAMER S. KUCINSKAS J. A.	055-T487 055-T487	TAEGE D. TORSETH R. TRIPPEDA D.	055-T487 055-T487 055-T487
DASSLER D. DAWSON T.	055-T487 055-T487	LAM B. LATT J. LENOX A.J. LIU N.	055-T487 055-T487 055-T487 055-T487	VENABLE T.	055-T487 055-T487
FISCHER S. FUENTES G.	055-T487 055-T487	MAKO R. MCLAUGHLIN J. NAGAOKA M.	055-T487 055-T487 055-T487	WAHL B. WAITE P. WALSH E. WILEY J.	055-T487 055-T034 055-T487 D851-0097
		PACANAS M. PADFIELD J. M.	055-T487 055-T487	WOKURKA J WONG K. ZORBA P	D851-0097 110-SB33 NASA

REVISED 8/4/11





VIA FED EX

September 30, 2011 In reply refer to: SHEA-111479

Regional Water Quality Control Board Los Angeles Region 320 West 4th Street, Suite 200 Los Angeles, CA 90013

Attention: Mr. Peter Raftery

Subject: Third Quarter Progress Report for June 18, 2011 - September 16, 2011 Activity.

Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan

Dear Mr. Raftery:

In the Final ISRA Work Plan and the BMP Plan, Boeing and NASA proposed to provide the Los Angeles Regional Water Quality Control Board (RWQCB) with quarterly progress reports until work is complete. This Quarterly Progress Report is submitted for the third quarter 2011 and summarizes ISRA and BMP Plan activities performed during the period of June 18, 2011 through September 16, 2011.

ISRA activities at the Santa Susana Site are being conducted pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. The BMP Plan was prepared pursuant to the National Pollution Discharge Elimination System (NPDES) Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. ISRA and BMP Plan activities are being implemented under oversight of the RWQCB with the objective of achieving compliance with the Waste Discharge Requirements (WDRs) for Outfalls 008 and 009 established in the NPDES Permit.

Per the RWQCB's request, Boeing provides monthly progress reports on the ISRA and BMP Plan activities to the RWQCB Executive Officer. This quarterly progress report is a compilation of the monthly progress reports for the period of June 18, 2011 through September 16, 2011, which are attached to provide the complete list of ISRA and BMP Plan activities performed during the period covered by this quarterly report.

The ISRA and BMP Plan Quarterly Reports are posted on the ISRA website at:

http://www.boeing.com/aboutus/environment/santa_susana/isra.html



In reply refer to: SHEA-111479 September 30, 2011 Page 2

If you have any questions, or require anything further, please contact Art Lenox at 818-466-8795. Sincerely,

Tom Gallacher

Director

Santa Susana Field Laboratory Environment, Health, and Safety

Attachments:

July 2011 Monthly Progress Report (June 18, 2011 – July 15, 2011)
August 2011 Monthly Progress Report (July 16, 2011 – August 12, 2011)
September 2011 Monthly Progress Report (August 13, 2011 to September 16, 2011)

CC:

Ms. Cassandra Owens, RWQCB, w/ attachments

Mr. Mark Malinowski, DTSC, w/ attachments

Mr. Buck King, DTSC, w/ attachments Mr. Allen Elliott, NASA, w/ attachments Mr. Peter Zorba, NASA, w/ attachments



The Boeing Company

5800 Woolsey Canyon Road Canoga Park, CA 91304-1148

Date:

7/20/2011

No.:

SHEA-111313

To:

Sam Unger

Executive Officer

LA Regional Water Quality Control

Board

From:

Tom Gallacher

Director

Santa Susana

Environment, Health & Safety

Subject:

July 2011 Monthly Progress Report for June 18, 2011 - July 15, 2011 Activity

Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan

Per the Regional Water Board's request, Boeing, on behalf of Boeing and NASA, is providing the following Monthly Progress Report on the Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan activities for the period of to June 18, 2011 to July 15, 2011. In addition, a 30 day Look-Ahead is also provided.

ISRA activities at the SSFL are being performed pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. Weekly team meetings have been held to track the ISRA activities since April 16, 2009. During this reporting period, the meeting participants have consisted of RWQCB staff, DTSC staff, Ventura County staff, Surface Water Expert Panel Members, Boeing, and NASA. For the period from mid-June to mid-July, the primary activities associated with 2010 and 2011 ISRA areas have been continuing the design of a final BMP for ISRA area B1-2 and continuing preparation of the Performance Monitoring and BMP Monitoring Summary Report for the 2010-2011 Rainy Season. Routine inspections of the field work are being conducted by Ventura County and RWQCB. DTSC will be on site when possible. In addition, inspections of erosion control BMPs were conducted at 2009, 2010 and 2011 ISRA areas per the ISRA SWPPP.

A BMP Plan was prepared by Boeing and NASA, with input from the Surface Water Expert Panel, pursuant to the NPDES Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. A surface water sampling plan for treatment BMP subarea monitoring and ISRA performance monitoring was submitted to the RWQCB in Fall 2010. Both documents have been posted to the ISRA website. Boeing with support from the Expert Panel is implementing the surface water sampling plan, reviewing available surface water data, and designing and implementing BMPs. Accomplishments and upcoming actions are listed below.

Activities Performed - June 18, 2011 to July 15, 2011

- June 18, 2011 July 15, 2011:
 - o In coordination with the Expert Panel, continued construction planning activities for the final sediment control BMP to be located within ISRA area B1-2 to capture eroded sediment and reduce peak flows from the B-1 area.
 - In coordination with the Expert Panel, continued design of a treatment BMP in the Lower Parking Lot Soil Stockpile area, with Final/100% design drawings in development, and

- continued construction planning activities, including obtaining a grading permit from Ventura County; construction scheduled to begin in August.
- o In coordination with the Expert Panel, continued design of a treatment BMP at the B-1 culvert inlet, with Final/100% design drawings in development, and continued construction planning activities; construction scheduled to begin in August.
- o In coordination with the Expert Panel and NASA, continued the evaluation of bank stabilization and other erosion controls at LOX.
- o In coordination with the Expert Panel, developed final BMP recommendations for 2012 based on review of the 2010-2011 potential BMP subarea monitoring results; these recommendations will be incorporated in the Performance Monitoring/BMP Monitoring Summary Report scheduled to be submitted to RWQCB staff in July. Includes coordination with NASA regarding those locations that are on their property.
- Phytoremediation planning is on hold until 2012, when potential testing of non-native grasses will be reevaluated by Boeing and the Expert Panel.
- In coordination with the Expert Panel, continued preparation of the Performance Monitoring and BMP Monitoring Summary Report for the 2010-2011 Rainy Season scheduled to be submitted in July.
- o In coordination with the Expert Panel, continued development of the Restoration, Mitigation, and Monitoring Plan for the Northern Drainage, with revisions to 60% design drawings ongoing; report scheduled to be submitted in September. Includes coordination with NASA regarding those locations that are on their property.
- Continued planning activities associated with the removal of the Building 324 parking lot; removal scheduled to begin in August.
- Continued planning activities associated with the removal of asphalt on Boeing and Sage Ranch adjacent to the Lower Parking Lot Soil Stockpile area; removal scheduled to begin in August.
- Continued planning activities associated with road rehabilitation of dirt road near Area II Landfill in Outfall 009 watershed, including coordination with NASA.
- June 22, 2011: Submitted a brief summary memorandum describing the Expert Panel's general BMP siting approach to the RWQCB.
- June 23, 2011: Conducted post-restoration ground-based topographic survey at ISRA area IEL-2.
- June 23, 2011: Conducted pre-field work biological survey of ISRA areas AP/STP-1E-1, AP/STP-1E-2, and AP/STP-1E-3.
- June 28, 2011: Conducted site walk of ISRA areas AP/STP-1E-1, AP/STP-1E-2, and AP/STP-1E-3 with RWQCB and DTSC.
- June 29, 2011: Presented analytical results of samples collected below feature removed from ISRA area IEL-2 with RWQCB and DTSC.
- July 7, 2011: Received Ventura County comments on the grading permit application for the treatment BMP in the Lower Parking Lot Soil Stockpile area.

30-Day Look ahead - through August 15, 2011

 Boeing/NASA – Continue non-rainy season inspections of erosion control BMPs at the 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.

- Boeing/Expert Panel Finalize design of treatment BMP in the Lower Parking Lot Soil Stockpile area, acquire grading permit, select contractor, and begin construction.
- Boeing/Expert Panel Finalize design of treatment BMP at the B-1 culvert inlet, select contractor, and begin construction.
- NASA/Expert Panel Continue coordination on short-term erosion control activities, northern drainage restoration planning, and new treatment BMP planning.
- Boeing/NASA/Expert Panel Continue development of the Restoration, Mitigation and Monitoring Plan and design of restoration measures for the Northern Drainage.
- Boeing Continue planning activities associated with construction of the final sediment control BMP located within ISRA area B1-2 to capture eroded sediment and reduce peak flows from the B-1 area.
- Boeing Continue planning activities associated with removal of the Building 324 parking lot.
- Boeing Continue planning activities associated with the removal of asphalt on Boeing and Sage Ranch adjacent to the Lower Parking Lot Soil Stockpile area.
- Boeing/NASA Continue planning activities associated with road rehabilitation of dirt road near Area II Landfill in Outfall 009 watershed.
- Expert Panel Finalize BMP site ranking analysis memorandum and 2012 BMP recommendations for the Performance Monitoring/BMP Monitoring Summary Report for the 2010-2011 Rainy Season.
- Boeing/NASA/Expert Panel Complete the Performance Monitoring and BMP Monitoring Summary Report for the 2010-2011 Rainy Season and submit to RWQCB.
- Boeing/NASA Conduct preparation activities for Phase III planned excavation at AP/STP.
- Boeing/NASA/Expert Panel Begin development of new BMP concepts for September BMP Work Plan Addenda.

Approved By:

Thomas D. Gallacher Director, Santa Susana

Environment, Health and Safety

Distribution:

Mr. Peter Raftery, RWQCB

Ms. Cassandra Owens, RWQCB

Mr. Buck King, DTSC Mr. Allen Elliott, NASA



The Boeing Company

5800 Woolsey Canyon Road Canoga Park, CA 91304-1148

Date:

8/16/2011

No.:

SHEA-111389

To:

Sam Unger

Executive Officer

Los Angeles Regional Water Quality

Control Board

From:

Thomas D. Gallacher

Director

Santa Susana Field Laboratory

Environment, Health and Safety

Subject:

August 2011 Monthly Progress Report for July 16, 2011 through August 12, 2011 Activity

Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan

Per the Regional Water Board's request, Boeing, on behalf of Boeing and NASA, is providing the following Monthly Progress Report on the Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan activities for the period of July 16, 2011 to August 12, 2011. In addition, a 30 day Look-Ahead is also provided.

ISRA activities at the SSFL are being performed pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. To track the ISRA activities, meetings have been held on a weekly basis from April 16, 2009 through June 29, 2011, and biweekly since July 2011. During this reporting period, the meeting participants have consisted of RWQCB staff, DTSC staff, Surface Water Expert Panel Members, Boeing, and NASA. For the period from mid-July to mid-August, the primary activities associated with 2010 and 2011 ISRA areas have been continuing construction planning activities for the final BMP for ISRA area B1-2 and completing/submitting the Performance Monitoring and BMP Monitoring Summary Report for the 2010/2011 Rainy Season (2010/2011 Rainy Season Report) to the RWQCB. In addition, inspections of erosion control BMPs were conducted at 2009, 2010 and 2011 ISRA areas per the ISRA SWPPP.

A BMP Plan was prepared by Boeing and NASA, with considerable input from the Surface Water Expert Panel, pursuant to the NPDES Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. Per the BMP Plan, a potential BMP subarea monitoring program was implemented during the 2010/2011 rainy season with results provided in the 2010/2011 Rainy Season Report that was submitted to the RWQCB on July 29, 2011. The BMP Plan and the 2010/2011 Rainy Season Report have been posted to the ISRA website. The 2010/2011 Rainy Season report includes a memorandum prepared by the Expert Panel that presents the statistical evaluation performed on available data, a ranked list of potential BMP sites based on the evaluation results, and a list of new BMP recommendations. A BMP Plan Addendum that is scheduled to be submitted in September 2011 will provide additional detail on the new BMP recommendations and the implementation schedule.

Accomplishments and upcoming actions for both the ISRA and BMP programs are listed below.

Activities Performed - July 16, 2011 to August 12, 2011

- July 16, 2011 August 12, 2011:
 - In coordination with the Expert Panel, continued construction planning activities, including contractor selection, for the final sediment control BMP to be located within ISRA area B1-2 to capture eroded sediment and reduce peak flows from the B-1 area.
 - o In coordination with the Expert Panel, completed design of a treatment BMP in the Lower Parking Lot Soil Stockpile area and continued construction planning activities, including contractor selection and Ventura County grading permit related activities; construction scheduled to begin in September subject to authorization from Southern California Edison who has an easement in the vicinity of this BMP.
 - In coordination with the Expert Panel, completed design of a treatment BMP at the B-1 culvert inlet and continued construction planning activities, including contractor selection; construction scheduled to begin in September.
 - In coordination with the Expert Panel, continued preparation of the Restoration, Mitigation, and Monitoring Plan for the Northern Drainage; report scheduled to be submitted in September to the RWQCB. Coordinated with NASA regarding those locations that are on their property.
 - Continued planning activities associated with rock placement for outlet erosion control downstream of two culverts under a dirt road near the Area II Landfill in the Outfall 009 watershed; includes coordination with NASA.
 - In coordination with the Expert Panel, continued planning and preparation for the August 25, 2011 public meeting in Simi Valley.
- July 16 29, 2011: In coordination with the Expert Panel, completed the 2010/2011 Rainy Season Report, which included three Expert Panel memorandums as appendices, including the BMP siting analysis memorandum, Dekaport splitter memorandum, and up- and downgradient performance monitoring memorandum, and submitted the Report to the RWQCB on July 29, 2011 (the Report was also posted to the ISRA website).
- July 20, 2011: During a teleconference with RWQCB and DTSC, reviewed non-ISRA COC results for IEL-2 confirmation samples.
- July 27, 2011 August 4, 2011: Completed asphalt removal on Boeing and Sage Ranch property adjacent to the Lower Parking Lot Soil Stockpile area.
- July 28, 2011 and August 1, 2011: Collected samples of compost from three vendors to evaluate the potential onsite use of the compost.
- August 1 12, 2011: In coordination with the Expert Panel, began development of conceptual designs for the new BMP recommendations presented in the 2010/2011 Rainy Season Report; designs will be included in the BMP Plan Addendum scheduled to be submitted in September to the RWQCB.
- August 3 12, 2011; Performed asphalt removal at the Building 324 parking lot.

30-Day Look ahead - through September 12, 2011

- Boeing/NASA Continue non-rainy season inspections of erosion control BMPs at the 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- Boeing Continue planning activities associated with construction of the final sediment control BMP located within ISRA area B1-2 to capture eroded sediment and reduce peak flows from the B-1 area.
- Boeing/Expert Panel Continue planning activities associated with construction of the treatment BMP in the Lower Parking Lot Soil Stockpile area, including obtaining the grading permit and meeting with Southern California Edison.
- Boeing/Expert Panel Continue planning activities associated with construction of the treatment BMP at the B-1 culvert inlet.
- Boeing/NASA/Expert Panel Continue development of the Restoration, Mitigation and Monitoring Plan for the Northern Drainage.
- Boeing/NASA Continue planning activities associated with rock placement for outlet erosion control downstream of two culverts under a dirt road near Area II Landfill in Outfall 009 watershed.
- Boeing/NASA/Expert Panel Continue development of new BMP concepts for September BMP Plan Addendum.
- Boeing/Expert Panel Evaluate compost sample results for the potential onsite use of compost.
- Boeing/NASA Conduct preparation activities for Phase III planned excavation at AP/STP.

Approved By:

Thomas D. Gallacher
Director, Santa Susana Field Laboratory
Environment, Health and Safety

Distribution:

Mr. Peter Raftery, RWQCB

Ms. Cassandra Owens, RWQCB

Mr. Buck King, DTSC Mr. Allen Elliott, NASA



The Boeing Company

5800 Woolsey Canyon Road Canoga Park, CA 91304-1148

Date:

9/20/2011

VIA E MAIL

No.:

SHEA-111463

To:

Sam Unger

Executive Officer

LA Regional Water Quality Control

Board

From:

Tom Gallacher

Director

Santa Susana

Environment, Health & Safety

Subject:

September 2011 Monthly Progress Report for August 13, 2011 - September 16, 2011

Activity, Interim Source Removal Action (ISRA) and Best Management Practices (BMP)

Plan

Per the Regional Water Board's request, Boeing, on behalf of Boeing and NASA, is providing the following Monthly Progress Report on the Interim Source Removal Action (ISRA) and Best Management Practices (BMP) Plan activities for the period of August 13, 2011 to September 16, 2011. In addition, a 30 day Look-Ahead is also provided.

ISRA activities at the SSFL are being performed pursuant to a California Water Code Section 13304 Cleanup and Abatement Order (CAO) issued by RWQCB dated December 3, 2008. To track the ISRA activities, meetings have been held on a weekly basis from April 16, 2009 through June 29, 2011, and biweekly since July 2011. During this reporting period, the meeting participants have consisted of RWQCB staff, DTSC staff, Surface Water Expert Panel Members, Boeing, and NASA. For the period from mid-August to mid-September, the primary activities associated with 2010 and 2011 ISRA areas have been beginning construction modifications on the retention basin BMP located within ISRA area B1-2 and performing excavation and confirmation sampling activities at ISRA areas AP/STP-1E-1 and AP/STP-1E-3. In addition, inspections of erosion control BMPs were conducted at 2009, 2010 and 2011 ISRA areas per the ISRA SWPPP.

A BMP Plan was prepared by Boeing and NASA, with considerable input from the Surface Water Expert Panel, pursuant to the NPDES Permit (Order No. R4-2010-0090) adopted by the RWQCB on June 3, 2010. Per the BMP Plan, a potential BMP subarea monitoring program was implemented during the 2010/2011 rainy season with results provided in the 2010/2011 Rainy Season Report that was submitted to the RWQCB on July 29, 2011. The BMP Plan and the 2010/2011 Rainy Season Report have been posted to the ISRA website. The 2010/2011 Rainy Season report includes a memorandum prepared by the Expert Panel that presents the statistical evaluation performed on available data, a ranked list of potential BMP sites based on the evaluation results, and a list of new BMP recommendations. A BMP Plan Addendum that is scheduled to be submitted in September 2011 will provide additional detail on the new BMP recommendations and the implementation schedule.

Accomplishments and upcoming actions for both the ISRA and BMP programs are listed below.

Activities Performed - August 13, 2011 to September 16, 2011

- August 13, 2011 September 16, 2011:
 - o In coordination with the Expert Panel, continued construction planning activities for the treatment BMP in the Lower Parking Lot Soil Stockpile area, including contractor selection, Ventura County grading permit related activities (currently responding to Ventura County final comments on revised application), and discussions with Southern California Edison (SCE) about work within their easement (a meeting is planned for September 20, 2011). Revised draft landscaping plans for the sediment basin and biofilter were also completed. Construction of this BMP is expected to begin this Fall.
 - In coordination with the Expert Panel, continued preparation of the Restoration, Mitigation, and Monitoring Plan for the Northern Drainage; report scheduled to be submitted in October to the RWQCB. Coordinated with NASA regarding locations on NASA property.
 - In coordination with the Expert Panel, continued development of conceptual designs for the new BMP recommendations presented in the 2010/2011 Rainy Season Report; designs will be included in the BMP Plan Addendum scheduled to be submitted in September to the RWQCB.
 - In coordination with the Expert Panel, evaluated compost sample results for the potential onsite use of compost.
- August 25, 2011: The Expert Panel hosted a public meeting in Simi Valley, the presentation slides have been posted to the ISRA website.
- August 29, 2011 September 16, 2011: Completed construction modifications on the B1-2 retention basin BMP.
- September 6, 2011: Began construction of the B-1 culvert modification BMP.
- September 6, 2011: Conducted vegetation clearance and the pre-excavation survey at ISRA areas AP/STP-1E-1 and AP/STP-1E-3 on NASA property.
- September 6 8, 2011: Conducted the excavation boundary survey at ISRA areas AP/STP-1E-1 and AP/STP-1E-3 on NASA property.
- September 6 12, 2011: Completed excavation at ISRA areas AP/STP-1E-1 and AP/STP-1E-3 on NASA property.
- September 12, 2011: Reviewed confirmation sampling plan for ISRA areas AP/STP-1E-1and AP/STP-1E-3 during a teleconference with RWQCB and DTSC.
- September 14, 2011: Collected confirmation soil samples at ISRA areas AP/STP-1E-1 and AP/STP-1E-3 on NASA property.

30-Day Look ahead - through October 16, 2011

- Boeing/NASA Continue non-rainy season inspections of erosion control BMPs at the 2009, 2010, and 2011 ISRA areas, per the ISRA SWPPP.
- Boeing/Expert Panel Continue planning activities associated with construction of the treatment BMP in the Lower Parking Lot Soil Stockpile area, including obtaining the grading permit and meeting with SCE.
- Boeing/NASA/Expert Panel Complete the Restoration, Mitigation and Monitoring Plan for the Northern Drainage and submit to the RWQCB.
- Boeing/NASA/Expert Panel Complete the BMP Plan Addendum containing conceptual designs for the new BMP recommendations and submit to the RWQCB.

Mr. S. Unger, RWQCB (SHEA111463-) September 20, 2011 Page 3

- Boeing/NASA/Expert Panel Begin design of the new BMP recommendations presented in the BMP Plan Addendum.
- Boeing/Expert Panel Continue evaluation of compost sample results for the potential onsite
 use of compost.
- Boeing Complete construction of the B-1 culvert modification BMP.
- Boeing/NASA Review confirmation sample results for ISRA areas AP/STP-1E-1 and AP/STP-1E-3 with DTSC and RWQCB, and complete restoration activities.
- Boeing/NASA/Expert Panel Host a surface water site tour for public and RWQCB members and staff (October 6, 2011).
- Boeing/NASA/Expert Panel Begin preparation of the 2011-2012 BMP and Performance Monitoring Sampling and Analysis Plan for the 008/009 Watersheds.
- Boeing/NASA/Expert Panel Begin construction of LOX erosion controls, one of the new BMPs recommended by Expert Panel and presented in the 2010/2011 Rainy Season Report.
- Boeing/NASA Begin preparation activities for AP/STP and ELV ISRA areas.

Approved By:

Thomas D. Gallacher Director, Santa Susana

Environment, Health and Safety

Distribution:

Mr. Peter Raftery, RWQCB

Ms. Cassandra Owens, RWQCB

Mr. Buck King, DTSC

Mr. Allen Elliott, NASA

Mr. Pete Zorba, NASA