

The Boeing Company
Santa Susana Field Laboratory
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Via FedEx

August 13, 2008

In reply refer to SHEA-107639

Regional Water Quality Control Board

Los Angeles Region

320 West 4th Street, Suite 200

Los Angeles, CA 90013



Attention: Information Technology Unit

Reference: Compliance File CI-6027 and NPDES No. CA0001309

Subject: 2nd Quarter 2008 NPDES Discharge Monitoring Report Submittal-
Santa Susana Field Laboratory

Dear Sir/Madam:

The Boeing Company (Boeing) hereby submits the Discharge Monitoring Report (DMR) for the Santa Susana Field Laboratory (SSFL) for the Second Quarter of 2008. This DMR provides the results of the activities that occurred for the SSFL outfalls (Figure 1) for the period of April 1st through June 30th of 2008 as required by National Pollutant Discharge Elimination System (NPDES) Permit No. CA0001309 (NPDES Permit). This quarterly DMR provides information, including rainfall summaries and liquid waste shipment summaries. The DMR is provided for the SSFL outfalls authorized by the NPDES Permit. This document will be made available electronically at:

www.boeing.com/aboutus/environment/santa_susana/programs.html.

Additionally, hard copies of this DMR are available at the following: California State University at Northridge Library; Simi Valley Library; and the Platt Branch, Los Angeles Library.

SECOND QUARTER 2008 DISCHARGE MONITORING REPORT (DMR) CONTENTS AND DISCHARGE SUMMARY

Figure 1 is a site location map indicating the locations of the regulated outfalls at the SSFL. A summary of the Second Quarter 2008 precipitation measured at SSFL is presented in Appendix A. All sanitary wastes from the domestic sewage treatment plants (STPs I, II, and III) were shipped off-site. Details of all liquid waste shipments including the STP waste are summarized in Appendix B.

As detailed in Appendix A, no rain events occurred during the Second Quarter 2008. (The record of precipitation at noon (12:00 hrs.) on April 16, 2008, in Appendix A is a false record due to maintenance being performed on the station, as evidenced by the "D" qualifier on the rainfall data for the preceding hour.) Due to a power outage at the facility, no rainfall depth measurements were recorded for parts of May 7-9, June 24-25, or June 27-30, but no

storm events occurred during this time based on visual observation and recordings from offsite weather stations.

Samples were collected for receiving water sampling at Arroyo Simi and submitted to and analyzed by a State of California-certified analytical laboratory. Appendix C contains a summary table of analytical results for surface water samples collected during the Second Quarter 2008. This table identifies the sampling location, the constituents evaluated (analytes), the date of sampling, the analytical result, and data validation qualifiers.

A bioassessment review was conducted for the Second Quarter of 2008 as required by the permit. However, all drainages associated with Permit-regulated outfalls at SSFL were dry and there was no suitable habitat to complete the bioassessment sampling.

Appendix D contains a copy of the data validation report, laboratory analytical results, and chain of custody. Quarterly Summary Notes are a compilation of notes, abbreviations, and data validation codes that are used in the analytical data summary table and are included as a supplement in Appendix C.

SUMMARY OF NONCOMPLIANCE

No surface water discharges occurred from the SSFL during the Second Quarter 2008. As such, there are no noncompliance issues to report for this period. Additionally, no constituents were detected in receiving water samples greater than the receiving water limits for the Arroyo Simi.

SECOND QUARTER 2008 CORRECTIVE ACTIONS TAKEN

Despite having no surface water monitoring events in the Second Quarter of 2008, Boeing continued to improve and upgrade multiple best management practices (BMPs) throughout the site. Specific activities by outfall are identified in Table 1. In addition, Boeing continued to implement the Storm Water Pollution Prevention Plan (SWPPP).

Table 1: BMP Activities during the Second Quarter 2008

OUTFALL	BMP ACTIVITIES DURING SECOND QUARTER 2008
001 (South Slope below Perimeter Pond)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters.
002 (South Slope below R-2 Pond)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters.
003 (RMHF)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters.
004 (SRE)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters. Installed new fiber rolls and straw bales.
005 (FSDF-1)	Conducted BMP inspections and performed maintenance on drainage system. Removed tanks/treatment systems. Installed new fiber rolls.
006 (FSDF-2)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters. Replaced fiber rolls and repaired gravel road.

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OUTFALL	BMP ACTIVITIES DURING SECOND QUARTER 2008
007 (Building 100)	Conducted BMP inspections and performed maintenance on drainage system. Removed tanks/treatment systems.
008 (Happy Valley)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters. Installed fiber rolls.
009 (WS-13 Drainage)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters.
010 (Building 203)	Conducted BMP inspections and performed maintenance on drainage system. Installed new fiber rolls. Calibrated flow meters.
011 (Perimeter Pond)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters. Removed media filter for installation of GETS piping and inclusion of Outfall 019.
012 (ALFA Test Stand)	Conducted BMP inspections and performed maintenance on drainage system.
013 (BRAVO Test Stand)	Conducted BMP inspections and performed maintenance on drainage system.
014 (APTF Test Stand)	Conducted BMP inspections and performed maintenance on drainage system.
015 (STP I)	Wastewater currently hauled offsite – no discharges.
016 (STP II)	Wastewater currently hauled offsite – no discharges.
017 (STP III)	Wastewater currently hauled offsite – no discharges.
018 (R-2 Spillway)	Conducted BMP inspections and performed maintenance on drainage system. Calibrated flow meters. Removed bulk media from filter cells.
019 (GETS)	In the process of installing GETS system. Modified media cell at Outfall 011 for the inclusion of Outfall 019. Treated groundwater hauled off-site – no discharges.

REASONABLE POTENTIAL ANALYSIS (RPA)

No surface water discharges occurred from the SSFL and no new surface water discharge data became available during the Second Quarter of 2008. Accordingly, the analytical results for this sampling period did not trigger reasonable potential. Therefore, RPA tables are not included in this report.

DATA VALIDATION AND QUALITY CONTROL DISCUSSION

In accordance with current EPA guidelines and procedures, or as specified in the monitoring program, chemical analyses of receiving water samples were completed at a State of California-certified laboratory. Data validation was performed on the analytical results and quality control elements were found to be within acceptable limits for the analytical methods reported, except as noted on the analytical summary tables. As noted above, measures were implemented by the analytical laboratory to monitor and/or evaluate its low level detections, to analyze for interferences and to ensure that cross contamination does not occur in the future. Laboratory analytical reports, including validation reports and notes, are included in Appendix D. Attachment T-A of the NPDES Permit issued to the SSFL presents the State of

California Water Resources Control Board (SWRCB or "State Board") minimum levels (MLs) for use in reporting and determining compliance with NPDES Permit limits.

The analytical laboratory achieved these MLs for this reporting period when technically possible. When the laboratory reporting limits (RLs) were elevated, the laboratory maximum detectable limits (MDLs) were below the State of California MLs. However, some constituents' daily maximum discharge limits in the NPDES Permit are less than their respective MLs, and less than the RL. In cases where the NPDES Permit limit is less than the RL and ML, the RL was used to determine compliance. The specific constituents that have NPDES Permit limits that are less than the RL and ML are: mercury, bis(2-ethylhexyl)phthalate, cyanide, polychlorinated biphenyls (PCBs) (Aroclor congeners), chlordane, DDD, DDE, DDT, dieldrin, toxaphene, and chlorpyrifos. None of these compounds were detected in receiving water samples for the Second Quarter of 2008.

FACILITY CONTACT

If there are any questions regarding this report or its enclosures, you may contact Ms. Lori Blair at (818) 466-8741.

CERTIFICATION

I certify under penalty of law that this document and all appendices were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for a knowing violation.

Executed on the 12th of August 2008 at The Boeing Company, SSFL.

Sincerely,



Tom Gallacher

Director, Santa Susana Field Laboratory

Environment Health and Safety

LB:bjc

Attachments

Figure:

1 Storm Water Drainage System and Outfall Locations

Appendices:

A Second Quarter 2008 Rainfall Data Summary

B Second Quarter 2008 Liquid Waste Shipment Summary Tables

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- C Second Quarter 2008 Summary Tables, Receiving Water Location (Arroyo Simi – Frontier Park)
- D Second Quarter 2008 Analytical Laboratory Report, Chain-of-Custody, and Validation Report

cc:

- Mr. Jim Pappas, Department of Toxic Substances Control
- Mr. Christopher Sherman, Department of Toxic Substances Control
- Mr. Robert Marshall, California State University – Northridge, Library
- Ms. Dale Redfield, Simi Valley Library
- Ms. Lynn Light, Platt Branch, Los Angeles Library

References Cited:

MWH and Flow Science, 2006. Reasonable Potential Analysis Methodology Technical Memo- Version I, Final, Santa Susana Field Laboratory, Ventura County, California. April 28.

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