
Los Angeles Regional Water Quality Control Board

November 20, 2017

Mr. Paul Costa
SSFL - Safety, Health & Environmental Affairs
The Boeing Company
Santa Susana Field Laboratory
5800 Woolsey Canyon Road
Canoga Park, CA 91304-1148

Receipt of Final Human Health Risk Assessment for Surface Water Runoff Exiting the Santa Susana Field Laboratory (SSFL) via the Southern Outfalls, Ventura County, CA (Order Pursuant to California Water Code Section 13383; CA0001309, CI No. 6027)

Dear Mr. Costa:

The Regional Board on June 24, 2015, issued a letter requiring Boeing to perform a Human Health Risk Assessment (HHRA) at Outfalls 001, 002, 008, 009, 011, 018, 019, and 020 under the requirements included in Section 13383 of the California Water Code. California Water Code section 13383 provides the Regional Board the authority to require a permittee to monitor, report, and provide other information that the Regional Board requires. On September 17, 2015, the Boeing Company submitted a HHRA Work Plan for Surface Water Runoff Exiting the SSFL via these outfalls.

The Office of Environmental Health Hazard Assessment (OEHHA) and Regional Board staff reviewed and commented on the HHRA Work Plan submitted. On January 28, 2016, OEHHA and Regional Board comments were submitted to Boeing including directions to revise the Work Plan. On March 31, 2016, Geosyntec Consultants on behalf of Boeing submitted the revised Work Plan incorporating the requested revisions.

In a letter dated April 21, 2016, the Regional Board solicited public comments on the revised HHRA Work Plan. Comments were received from Ms. Christina Walsh, Ms. Christine Rowe, Heal the Bay, and Rocketdyne Cleanup Coalition (Physicians for Social Responsibility-Los Angeles, Southern California Federation of Scientists, Committee to Bridge the Gap, Teens Against Toxins, and the Aerospace Contamination Museum of Education). Regional Board working with OEHHA staff responded to the comments on September 15, 2016, and approved the HHRA Work Plan.

GeoSyntec Consultants on behalf of Boeing submitted on April 28, 2017, a HHRA for Surface Water Outfalls exiting the SSFL via the Southern Outfalls. The document was reviewed by Regional Board and OEHHA staff. On June 28, 2017, comments from OEHHA. The conclusions presented were:

- OEHHA agrees with the human health risk and hazard estimates.
- OEHHA is not fully convinced that potential downstream exposures to aquatic organisms has been adequately evaluated.

To address conclusion 2 above, an addendum to the HHRA was submitted on September 22, 2017 and modified on October 23, 2017. On October 29, 2017, after reviewing the addendum, OEHHA staff in the summary of results noted:

- Geosyntec has rigorously analyzed the projected flows in the various tributaries and show that SSFL's contribution to the total flow at 2 locations is 1% or less.
- Geosyntec multiplied the pollutant concentrations at the outfalls by the appropriate dilution factor to estimate the pollutant concentrations attributable to SSFL at Arroyo Simi at the confluence with Meier Canyon and the Sepulveda Basin. The results (Tables and 8, respectively) were compared to California Toxics Rule Criteria for Human Consumption of Aquatic Organisms.
- Meeting NPDES permit requirements for all surface water discharges from the facility without dilutions should achieve the necessary protection of aquatic life.

This letter documents receipt of the final HHRA that was completed as per the approved HHRA Work Plan dated September 15, 2016. Documents related to the HHRA including the final Report are posted on the Regional Board web site.

If you have any questions, please contact Cassandra Owens at (213) 576-6750 or Cassandra.Owens@waterboards.ca.gov or Mazhar Ali at (213) 576-6652 or Mazhar.Ali@waterboards.ca.gov

Sincerely,



Samuel Unger, P.E.
Executive Officer

Attachment: Final HHRA Report

cc: Mr. David Smith, Environmental Protection Agency, Region 9, Permits Branch (WTR-5)
Ms. Robyn Stuber, Environmental Protection Agency, Region 9, Permits Branch (WTR-5)
Ms. Becky Mitschele, Environmental Protection Agency, Region 9, Permits Branch (WTR-5)
Mr. Kenneth Wong, U.S. Army Corps of Engineers
Mr. Bryant Chesney, NOAA, National Marine Fisheries Service
Mr. Jeff Phillips, Department of Interior, U.S. Fish and Wildlife Service
Mr. William Paznokas, Department of Fish and Wildlife, Region 5
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Mr. John Jones, United States Department of Energy
Mr. Michael Bubman, c/o Bell Creek Homeowners Association
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