

# Office of Environmental Health Hazard Assessment



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Edmund G. Brown Jr.  
Governor

## MEMORANDUM

**TO:** Mazhar Ali  
Water Resources Control Engineer  
Regional Water Quality Control Board, Los Angeles Region  
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**FROM:** James C. Carlisle, D.V.M., M.Sc., *J.C.*  
Staff Toxicologist  
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**DATE:** October 29, 2017

**SUBJECT:** HUMAN HEALTH RISK ASSESSMENT FOR SURFACE WATER RUNOFF  
EXITING THE SANTA SUSANA FIELD LABORATORY VIA THE  
SOUTHERN OUTFALLS, SANTA SUSANA FIELD LABORATORY,  
VENTURA COUNTY, CALIFORNIA  
SWRCB# (R4-15-024) OEHHA #880394-00

### Document reviewed

- Human Health Risk Assessment for Surface Water Runoff Exiting the Santa Susana Field Laboratory via the Southern Outfalls, Santa Susana Field Laboratory, Ventura County, CA by Geosyntec Consultants, dated April 2017 (cover memo dated April 28, 2017)
- Revised addendum to the Human Health Risk Assessment for Surface Water Runoff, Exiting the Santa Susana Field Laboratory via the Southern Outfalls, Santa Susana Field Laboratory, Ventura County, CA, dated October 23, 2017

### Summary of results

- Geosyntec has rigorously analyzed the projected flows in the various tributaries and shown 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 7 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 dilution should achieve the necessary protection of aquatic life.

**California Environmental Protection Agency**

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption.*

## **Conclusions**

- OEHHA concludes that protection of human health and the environment will be achieved by a combination of
  - Boeing's requirement to meet priority pollutant limits specified in the NPDES permit for all surface water discharges from the facility without dilution, and
  - Geosyntec's analysis showing that the estimated pollutant concentrations attributable to SSFL at the confluence Arroyo Simi with Meier Canyon and in the Sepulveda Basin are well below the California Toxics Rule Criteria for Human Consumption of Aquatic Organisms.