

Water and Wastewater Projects:

Client: Dow Long Beach Marine Terminal

Dr. Schwerdtfeger served as PM to obtain a NPDES permit for the discharge of treated rainwater to the Pacific Ocean. Dow needed a permit from the Los Angeles Regional Water Quality Control Board for operational changes to reduce their costs.

Client: Chevron El Segundo Refinery

Dr. Schwerdtfeger determined compliance with Proposition 65 and public notification requirements for discharges from the wastewater treatment plant into the Pacific Ocean via the facility's outfall pipe.

Client: Chevron El Segundo Refinery

Dr. Schwerdtfeger oversaw a team that analyzed 20 years of historical groundwater monitoring data to determine whether there had been statistically significant evidence of a release (SSER) from the refinery. She worked with a computer programmer to graphically present the results from over 100 analytes which were sampled in 8 monitoring wells. In addition, there were complicated statistical analyses required in order to calculate various limits required by DTSC under Title 22 of the California Code of Regulations. To complicate this assessment, improvements in analytical methods and decreasing detection limits (DLs) and practical quantification limits (PQLs) over the 20 year period of time made the calculations especially challenging.