



BAY AREA
AIR QUALITY
MANAGEMENT
DISTRICT

AGENDA: 18A

Chevron Oil Spill Summary February 9, 2021

**Board of Directors Meeting
March 3, 2021**

**Jack P. Broadbent
Executive Officer/APCO
jbroadbent@baaqmd.gov**

Chevron Richmond Refinery February 9, 2021 Spill Summary



Facility Overview

- Chevron's Long Wharf is where vessels dock to bring crude to the refinery and load up with finished product including gasoline and diesel fuel
- The wharf extends about a mile out from shore, with several pipelines extending that length to convey organic liquids to and from tanks on shore



Chevron Richmond Refinery February 9, 2021 Spill Summary



Event Details – February 9, 2021

- 2:32 *pm* - Chevron was alerted to an oil sheen on the water by a community member
- Spill location: 16” ballast line on the refinery long wharf
 - “nickel-sized hole” in the line
 - Black arrow on photo details leak point
- Reported Amount spilled into the bay: 500-750 gallons
- California Department of Fish and Wildlife lab results
 - Mixture of diesel and water in the Bay
- 3:43 *pm* -Contra Costa County Early Warning System Level 2 called
- 4:30 *pm* - Chevron reports the leak was stopped
 - Temporary clamp placed on pipe to repair hole
 - The line was emptied, and Chevron will not use the line until a permanent repair is made.



Chevron Richmond Refinery February 9, 2021 Spill Summary



Air District Response

February 9, 2021

- Multiple inspection staff respond
 - Report to onsite incident command
 - Investigate complaints (two (2) total complaints received by the Air District)

February 11, 2021

- Inspection staff at Chevron Refinery to investigate ballast line and spill location
 - Toxic vapor analyzer (TVA) used to check for hydrocarbon vapor leaks and determine compliance with applicable Air District Regulation emissions standards (Regulation 8 Rule 18 Equipment Leaks)
 - No emissions above background concentrations were found (2 parts per million (ppm))



Chevron Richmond Refinery February 9, 2021 Spill Summary



Questions?





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Phillips 66 Refinery Hydrogen Sulfide Release February 23, 2021

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Executive Officer/APCO
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Phillips 66 Refinery February 23, 2021 Hydrogen Sulfide Release



Facility Overview

- Phillips 66 Refinery is located in Contra Costa County near the Carquinez Bridge
- The refinery uses large tanks to store crude, refined organic liquids and off-spec organic liquids



Photo Source Phillips 66

Phillips 66 Refinery February 23, 2021 Hydrogen Sulfide Release



Event Details

- *Approximately 8:00 pm* – Tank at Phillips 66 releases hydrogen sulfide-rich gas via a pressure relief valve on the top of the tank
 - Tank contains cracked naphtha, a partially refined petroleum liquid
 - Amount of gas released not yet known, no liquid spilled
- *8:53 pm* -Contra Costa County Early Warning System Level 1 called
- *10:45 pm* – Phillips has identified the source and stopped the gas leak
- Ground level monitor H₂S readings elevated in Rodeo (18 parts per billion (ppb)) and Benicia (7 ppb) during the event

Phillips 66 Refinery February 23, 2021 Hydrogen Sulfide Release



Air District Response

February 23, 2021

- Inspector at Phillips and patrolling surrounding area at 10:18 pm to document odors and investigate complaints
 - 40 complaints received by BAAQMD including 13 from Crockett and Rodeo or directly alleging Phillips 66, 19 from Benicia or alleging Valero Refinery, and 8 from Vallejo
- Inspection staff is in the process of collecting information to determine and document violations as a result of the release
 - Ground level monitor ambient hydrogen sulfide data for Rodeo and Benicia
 - Tank pressure and liquid level data from Phillips
 - Run reports from Benicia and Vallejo Fire Department response to the odors

Phillips 66 Refinery February 23, 2021 Hydrogen Sulfide Release



Questions?