

# EPA Montrose & Del Amo Superfund Sites

U.S. Environmental Protection Agency • Region 9 • San Francisco, CA • May 2016

## Introduction

**Montrose** Chemical Corporation of California (Montrose) manufactured the chemical dichloro-diphenyl-trichloroethane (DDT) from 1947 until 1982 at a plant located at 20201 Normandie Avenue, in Los Angeles County, California. Chlorobenzene and DDT were released and contaminated the groundwater in the form of a dense non-aqueous phase liquid (DNAPL). Soil contamination includes DDT and waste products. Contamination from the Site is in soils both on and near the plant property, in the groundwater, in the storm water drainage pathways, and in the Pacific Ocean. The plant was disassembled and removed from the property in 1982.

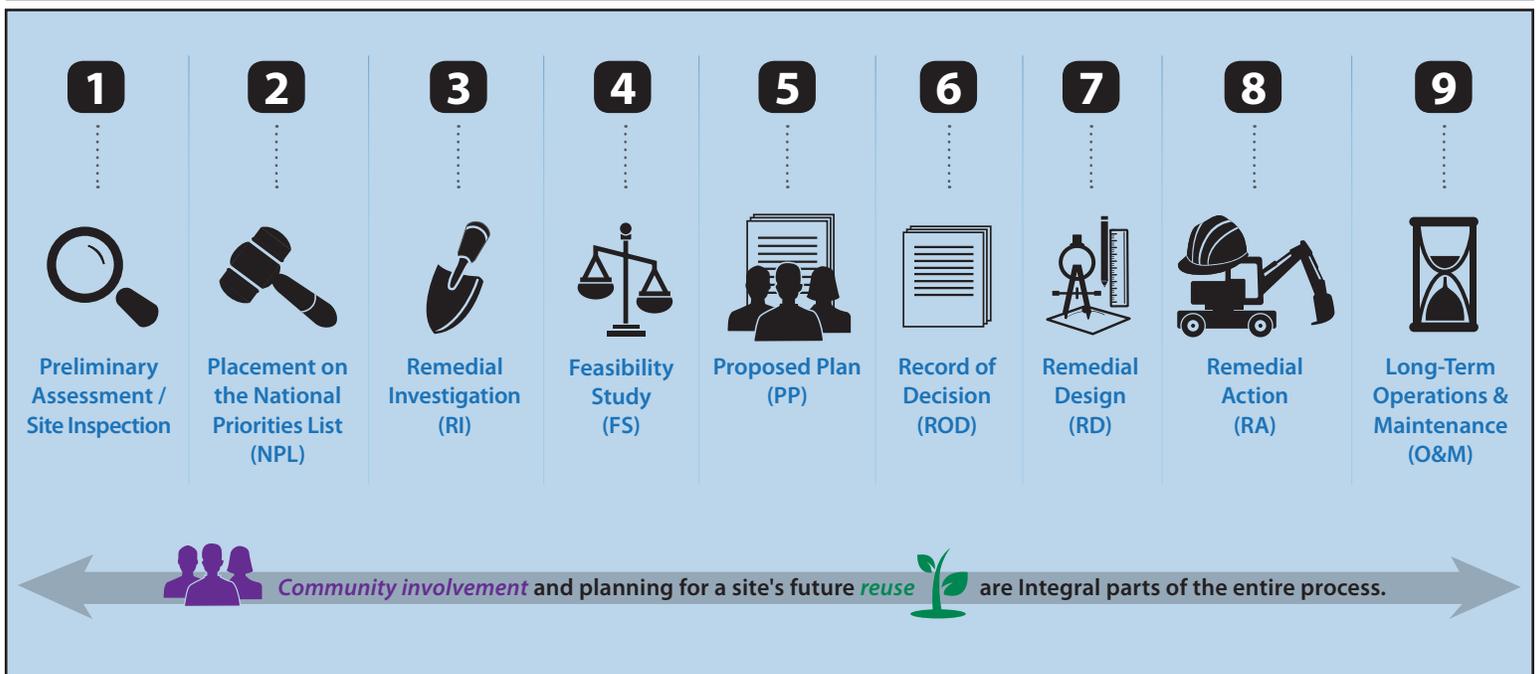
The **Del Amo** facility is located immediately east of the former Montrose Property. Originally built by the U.S. government to produce synthetic rubber during World War II, the 280-acre plant operated from 1943 until 1972.

Waste by-products were deposited in six unlined pits and three unlined evaporation ponds located in a 4-acre waste pit area along the plant's southern boundary. During plant operations, hazardous substances primarily consisting of BTEX compounds (benzene, toluene, ethylbenzene, and xylenes) and Polycyclic Aromatic Hydrocarbons (PAH's), also leaked from tanks, pipelines, and production units throughout the plant.

Upon closure in 1972, the waste pits were covered with soil. In addition to the known waste material in the waste pits, later environmental investigations also discovered contamination in the soil and an underlying groundwater plume that had comingled with contamination from the neighboring Montrose Superfund Site.

Most of the 280-acre former facility area has now been redeveloped as an industrial park.

## The Superfund Process



# Montrose & Del Amo Operable Units (OU)

Montrose							Montrose & Del Amo		Del Amo	
<b>Soils</b> <b>OU 1</b>	<b>Torrance Lateral</b> <b>OU 2</b>	<b>DNAPL</b> <b>OU 3D</b>	<b>Kenwood</b> <b>OU 4</b>	<b>Palos Verdes Shelf</b> <b>OU 5</b>	<b>Royal Boulevard</b> <b>OU 6</b>	<b>Jones Chemical</b> <b>OU 7</b>	<b>Dual Site Groundwater</b> <b>OU 3G</b>	<b>Vapor Intrusion</b> <b>OU 3G</b>	<b>Soil and NAPL</b> <b>OU 1</b>	<b>Waste Pits Area</b> <b>OU 2</b>
Chemical contamination is found in shallow soils & soil gas. The OU-1 boundaries include the Montrose Property, as well as several other industrial properties located immediately to the north, east, & south of the Montrose Property.	<b>Existing Stormwater Pathway:</b> Locations within the Torrance Lateral, Dominguez Channel and Consolidated Slip where rainfall runoff may have carried DDT.	Undissolved, also referred to as Dense Non Aqueous Phase Liquid (DNAPL), chlorobenzene & DDT found in soil and soil gas under the Montrose Property.	<b>Historical Stormwater Pathway - North:</b> DDT contaminated soils, at locations around Kenwood Ave. due to site related, storm water runoff. Cleanup was completed in 2002, and excavated soil is stored on the Montrose property in the soil cells.	DDT contamination on the ocean floor off the Palos Verdes Peninsula. OU-5 is addressed separately and has its own Community Involvement Plan. For more information visit: <a href="http://www.pvsfish.org">www.pvsfish.org</a>	<b>Historical Stormwater Pathway - South:</b> DDT sediment contamination found on properties located along the historical stormwater pathway	Contamination present in shallow soil and soil gas as a result of past activities at the site. Further investigation is being conducted as part of the RI process.	Groundwater contamination from the Montrose and Del Amo Sites (such as benzene and chlorobenzene) overlap and are treated as one cleanup.	Volatile organic compounds (VOCs) in the groundwater can evaporate through the soil, migrate into indoor air through cracks and other openings in the foundation slabs of a building, and pose an indoor air risk in overlying homes and businesses.	Includes shallow soils and deep soils, except for the waste pits area. Volatile organic compounds (VOCs) and Polycyclic Aromatic Hydrocarbons (PAHs), some in NAPL form, were found and a Record of Decision for cleanup was released in 2011.	Includes the waste pits and surrounding impacted soil. Early cleanup actions occurred in the 1980s. The Waste Pits Record of Decision in 1997 resulted in the placement of a cap over the Pits and installation of a soil vapor and in-situ bioremediation system for soil gas.
Current Step in the Superfund Process*										
<b>3/4</b> RI / FS	<b>3</b> RI	<b>4</b> FS	<b>9</b> O & M	<b>7/8</b> RD / RA	<b>3/4</b> RI / FS	<b>3/4</b> RI / FS	<b>8</b> RA	<b>3</b> RI	<b>7</b> RD	<b>9</b> O & M
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\*NOTE: For the step in the Superfund process, see page 1 for acronyms

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