

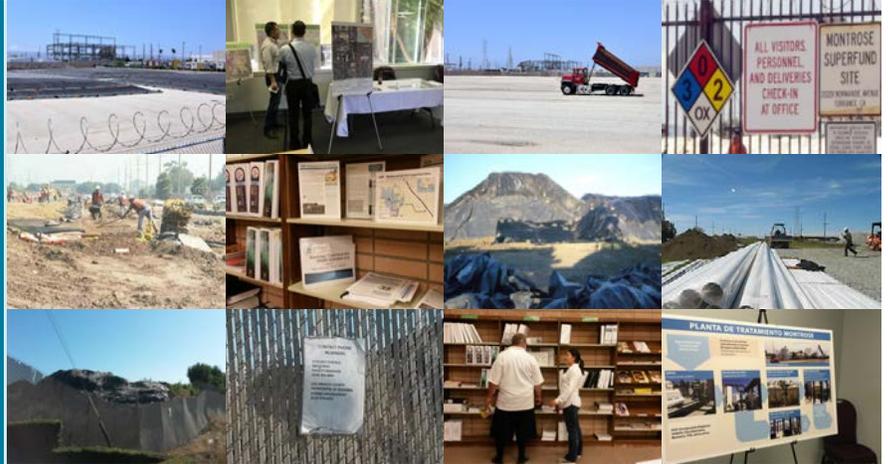


Montrose & Del Amo Superfund Sites Site Update Fact Sheet

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

In This Issue

Superfund Program	1
Montrose Superfund Site	2
Del Amo Superfund Site	3
Operable Units	4
Community Involvement	6
Superfund Sites Updates	7



What is the Superfund Program?

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), informally called Superfund, was enacted by Congress in 1980 in response to rising concerns over the health and environmental risks posed by hazardous waste sites. At the time, news reports and images of toxic waste in places like Love Canal and Valley of the Drums captured the public interest and motivated congressional action.

The U.S. Environmental Protection Agency (EPA) regularly adds high priority hazardous waste sites to the National Priorities List (NPL). Sites on the NPL are typically referred to as “Superfund sites.” CERCLA requires that Potentially Responsible Parties (PRPs) do cleanup work or fund the cleanup of Superfund sites. PRPs include parties who had any connection with the contamination, including those who generated or transported hazardous substances, as well as owners and operators of facilities that were the source or destination of hazardous substances. If PRPs cannot be located or otherwise cannot or refuse to participate, EPA will conduct the necessary remedial actions and seek to recover its costs from any viable parties after the site has been cleaned up.

Goals

- Protect human health and the environment by cleaning up polluted sites
- Involve communities in the Superfund process
- Hold Potentially Responsible Parties (PRPs) responsible for the cleanup of Superfund sites

Why are you receiving this “Site Update?”

EPA wants people affected or interested in the activities at these Superfund sites to be aware of current activities and know who to contact with any questions.



Del Amo Superfund Site

Former Montrose Plant

20201 Normandie Avenue in Los Angeles County, CA

- 13-acre area
- DDT manufacturing operations

TIMELINE

1947 – 1982
Montrose manufactured DDT

1972
DDT banned for most uses in the United States

1982 – 1983
Montrose ceased operations and demolished the plant

1985
Montrose partially regraded and paved the former plant property

1989
EPA placed the Montrose site on the NPL

EPA Contacts

Russell Mechem
Remedial Project Manager
for OU-1 and OU-4
(415) 972 – 3192
mechem.russell@epa.gov

Yarissa Martinez
Remedial Project Manager
for OU-3D and OU-7
(213) 244 – 1806
martinez.yarissa@epa.gov

Anhtu Nguyen
Remedial Project Manager
for OU-6
(415) 972 – 3443
nguyen.anhtu@epa.gov



Aerial photo of the Former Montrose Plant Property, Mid 1960's

Montrose Superfund Site Background

The Montrose Chemical Corporation of California (Montrose) manufactured the pesticide chemical Dichloro-Diphenyl-Trichloroethane (DDT) at its Torrance facility from 1947 until 1982.

During the manufacturing and storage of DDT, both DDT and the chemical chlorobenzene, as well as many other hazardous substances, were released into the environment surrounding the plant property. These hazardous substances contaminated the soils on and near the plant property, the groundwater, the historical and current storm water drainage pathways, and the Pacific Ocean.

In 1982, EPA identified the former Montrose plant property as a source of contamination. Since then, EPA has overseen investigations to assess whether, where, and how much of this contamination persists. In 1989, EPA added the Montrose site to the NPL. The Agency continues to select and oversee cleanup actions to address the contamination on each one of the operable units of the Montrose Superfund Site.

Del Amo and Montrose Dual Site Groundwater Operable Unit

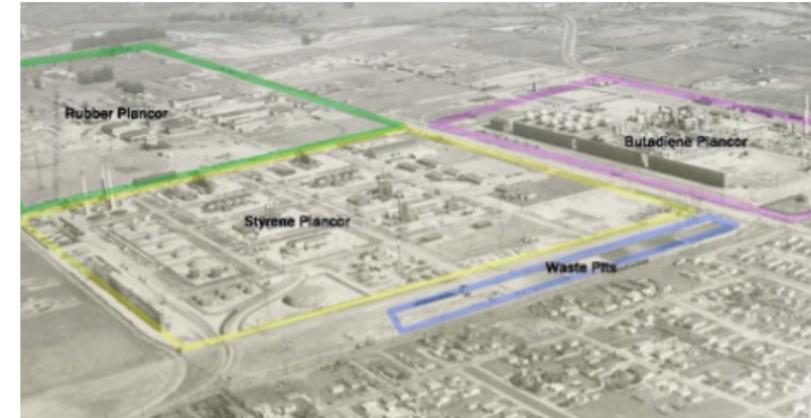
The groundwater contamination from the Montrose and Del Amo Superfund sites have commingled (or mixed), and the plume of contamination is treated as one cleanup project: Dual Site Groundwater Operable Unit 3 (OU-3). In addition to overseeing the construction of the groundwater treatment system, EPA has recently been investigating the potential for vapor intrusion in homes and businesses located above the contamination. Vapor intrusion occurs when underground contaminants migrate (evaporate) into indoor air through cracks and other openings in the foundation slabs of a building.

**See page 5 for an explanation of the term "Operable Unit" or OU.*

EPA CONTACTS

Raymond Chavira
Remedial Project Manager for OU-3G Dual Site Groundwater
(415) 947 – 4218
chavira.raymond@epa.gov

Yarissa Martinez
Remedial Project Manager for OU-3G Vapor Intrusion
(213) 244 – 1806
martinez.yarissa@epa.gov



Aerial photo of the Former Del Amo Facility Property

Del Amo Superfund Site Background

The site is the former location of a large-scale manufacturing plant built by the United States government to produce synthetic rubber during World War II.

The operation consisted of three facilities: a styrene plant operated by Dow Chemical Co., a butadiene plant operated by Shell Oil Co., and a synthetic rubber plant operated by U.S. Rubber Co., Goodyear Tire & Rubber Co., and others.

During its operations, waste from the plant's operation was deposited in six unlined pits and three unlined evaporation ponds located in a four-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 (PAHs), leaked into the soil and groundwater beneath the former plant facilities. Some of this contamination exists undissolved liquid in the soil or groundwater, technically known as "Non Aqueous Phase Liquid (NAPL).

Former Del Amo Facility

Harbor Gateway neighborhood (City of Los Angeles), adjacent to Torrance and Carson

- A 280-acre area
- Synthetic rubber manufacturing operations

TIMELINE

1942 - 1971
Synthetic rubber manufactured at the plant

1972
Plant dismantled and pits and ponds covered with soil

1970s - 1980s
Land sold to a developer. The property was subdivided and redeveloped

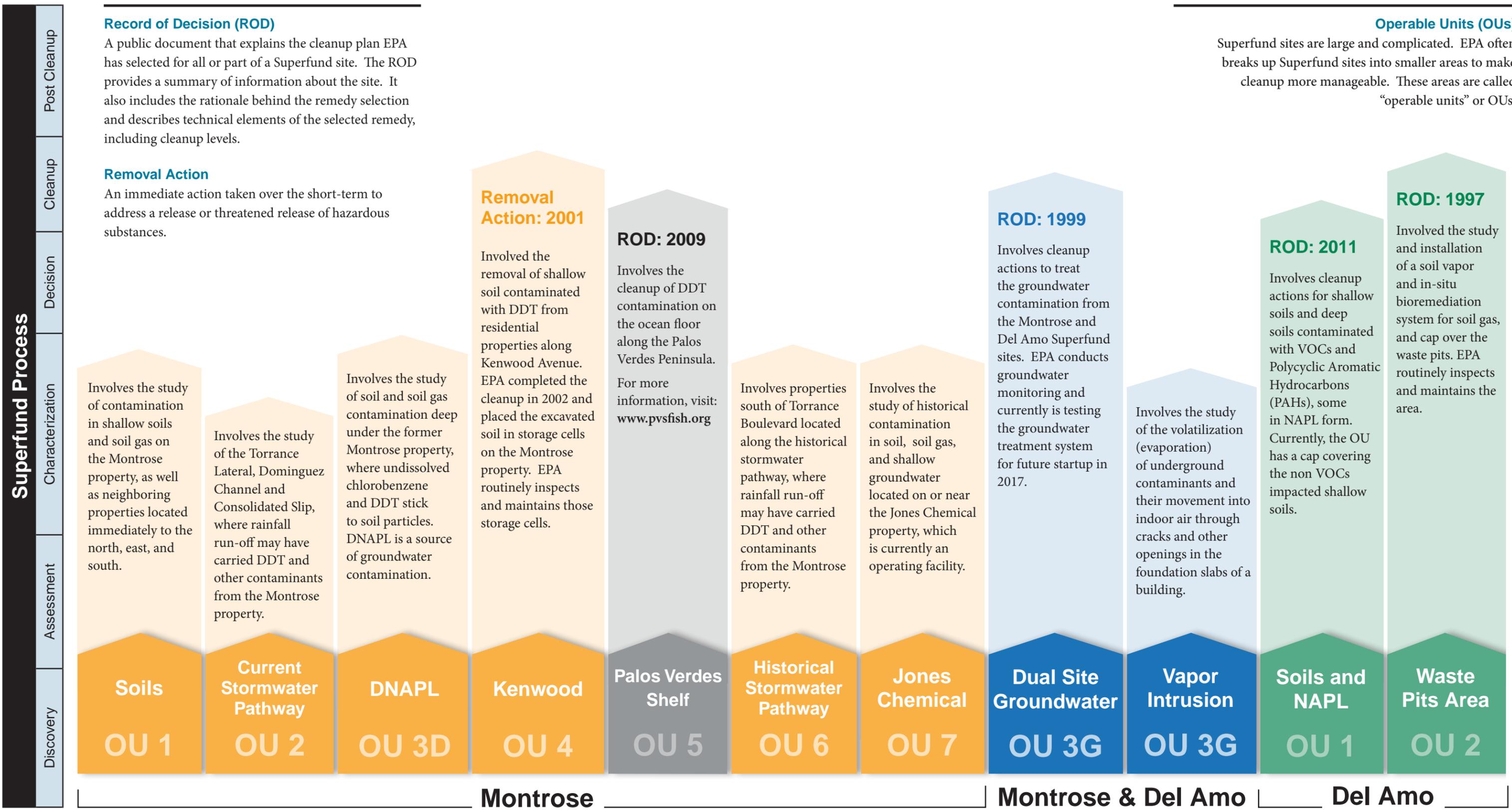
1992
EPA assumed lead agency responsibilities

2002
EPA place the Del Amo site on the NPL

EPA Contacts

Anhtu Nguyen
Remedial Project Manager
for OU-1 and OU-2
(415) 972 – 3443
nguyen.anhtu@epa.gov

Superfund Sites and Operable Units



For an Operable Units overview and a Superfund process explanation, review the online brochure: <http://go.usa.gov/x2AWY>

Community Involvement

EPA's Superfund program strives to keep the community well-informed of ongoing activities, encourages and offers opportunities for the community members to get involved, and incorporates community input into planned actions.

At the Montrose & Del Amo Superfund sites, EPA has two primary goals for community and stakeholder involvement:

- Take comprehensive steps to revise the community involvement plan (CIP) and explore options to support an effective community advisory group (CAG).
- Target outreach efforts toward the broader potentially impacted communities – Harbor Gateway, Torrance, Gardena, West Carson, Dominguez, and unincorporated Los Angeles County – and reach out to local officials from these communities.

EPA will focus on the following activities:

- Hosting bi-annual community site update meetings;
- Publishing site updates and fact sheets;
- Sending regular site update emails to interested stakeholders;
- Hosting door-to-door outreach and mobile information center (MIC) events in the neighborhood; and
- Participating in community events.

Contact Us

Community Involvement Coordinator

Yolanda Sanchez
(415) 972 – 3880
sanchez.yolanda@epa.gov



Recent Community Involvement Events

Community “Open House” Event

May 26, 2016

EPA hosted the event at the Torrance Cultural Arts Center. This informal event was organized as multiple “booths” to allow people to learn about all aspects of the Superfund sites at their own pace. This structure also allowed people to have one-on-one conversations with EPA Remedial Project Managers (RPMs) about the cleanup work.

Mobile Information Center (MIC) Events

May 19, 20, and 27, 2016

EPA spoke with 27 community members at the MIC staged at the corner of Budlong and 204th street. The MIC events were planned in response to community input requesting greater accessibility to information.

LA County Household Hazardous Waste (HHW) Events

June 18, 2016 (and October 15, 2016)

EPA handed out the Del Amo/Montrose by Operable Unit brochures to over 300 people participating from Torrance, Gardena, Carson, and the surrounding areas. We plan to participate in the next event scheduled for October 15 in the city of Carson.



Open House

Superfund Site Updates

Del Amo & Montrose Vapor Intrusion - Soil Gas Investigation

In April 2016, EPA issued an “Indoor Air Sampling Results” fact sheet and mailed it to over 2,500 interested stakeholders. Over the summer, EPA completed the field work for the soil-gas investigation in the neighborhood south of the former Del Amo facility. EPA installed 41 soil gas sampling locations at 5 and 15 feet deep, and 11 soil gas sampling locations up to 50 feet deep. Among these sampling locations, EPA installed 15 “step outs” to gather more soil-gas data near those locations.

EPA resampled the indoor air of 13 homes that participated in the 2015 indoor air investigation. These homes were identified by EPA for resampling based on the 2015 results.

In the next few months, EPA will be receiving validated data from the soil-gas investigation. EPA will provide a project update at the next community open house event (planned for November 9, 2016).



Drilling Activities for the Soil Gas Investigation

Montrose/Del Amo Vapor Intrusion Fact Sheet: <http://go.usa.gov/x2ADA>

Work Plan Approved for Soil Stockpile Removal at ECI

In July, Ecology Control Industries, Inc. (ECI) submitted to EPA a Work Plan that addressed further cleanup, as well as the disposal of the four soil stockpiles currently located at the ECI property located at 20846 Normandie Ave. ECI began the work to remove the soil stockpiles on September 6, and completed the work on September 22. EPA will continue to work with ECI on a timeline for the remaining excavation work included in the Work Plan.

In April 2016, EPA issued an “ECI Property and Soil Stockpiles Information” fact sheet and mailed it to over 1,000 nearby residents. On July 15 and August 31 2016, EPA walked door-to-door to talk with fence line neighbors informing about the order issued.



Soil Stockpiles on ECI Property

Montrose ECI Property and Soil Stockpiles Fact Sheet: <http://go.usa.gov/x2ADm>

Superfund Site Updates (Continued)

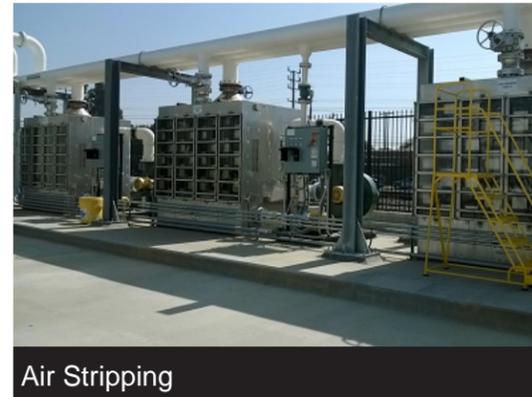
Five - Year Review on Del Amo Superfund Site

EPA conducts regular evaluations of Superfund site cleanup remedies to determine if a cleanup remedy currently is, or will be once completed, protective of human health and the environment. These evaluations are called Five-Year Reviews (FYRs).

In May 2016, EPA issued a FYR fact sheet and summarized the results from two EPA reports published in October 2015:

- Third Five-Year Review Report for Del Amo Superfund Site Operable Unit #1 and #2.
- First Five-Year Review Report for Montrose and Del Amo Superfund Sites Dual-Site Groundwater Operable Unit 3.

EPA is addressing the recommendations in the FYR reports and will report to the United States Congress annually on the progress.



Air Stripping

Del Amo Five-Year Review Fact Sheet (and supplementary information): <http://go.usa.gov/x2ADT>

Dual Site Groundwater Treatment System Update

EPA continues to work toward starting the groundwater treatment system for the Dual Site Groundwater Operable Unit 3. This includes:

- Completing an anti-degradation policy analysis (ADPA) to understand the potential impacts of reinjecting treated water before the groundwater treatment system starts full operation. The reinjection of treated groundwater is an essential component of the groundwater system and will prevent groundwater contamination from moving, vertically and horizontally, to cleaner or less contaminated areas in the aquifers. After the draft ADPA is reviewed by State agencies, EPA will issue the draft analysis for a 30-day public review period.
- Conducting additional tests of the groundwater treatment system and making modifications to enhance performance and to certify that the construction of the groundwater treatment system is completed as designed.

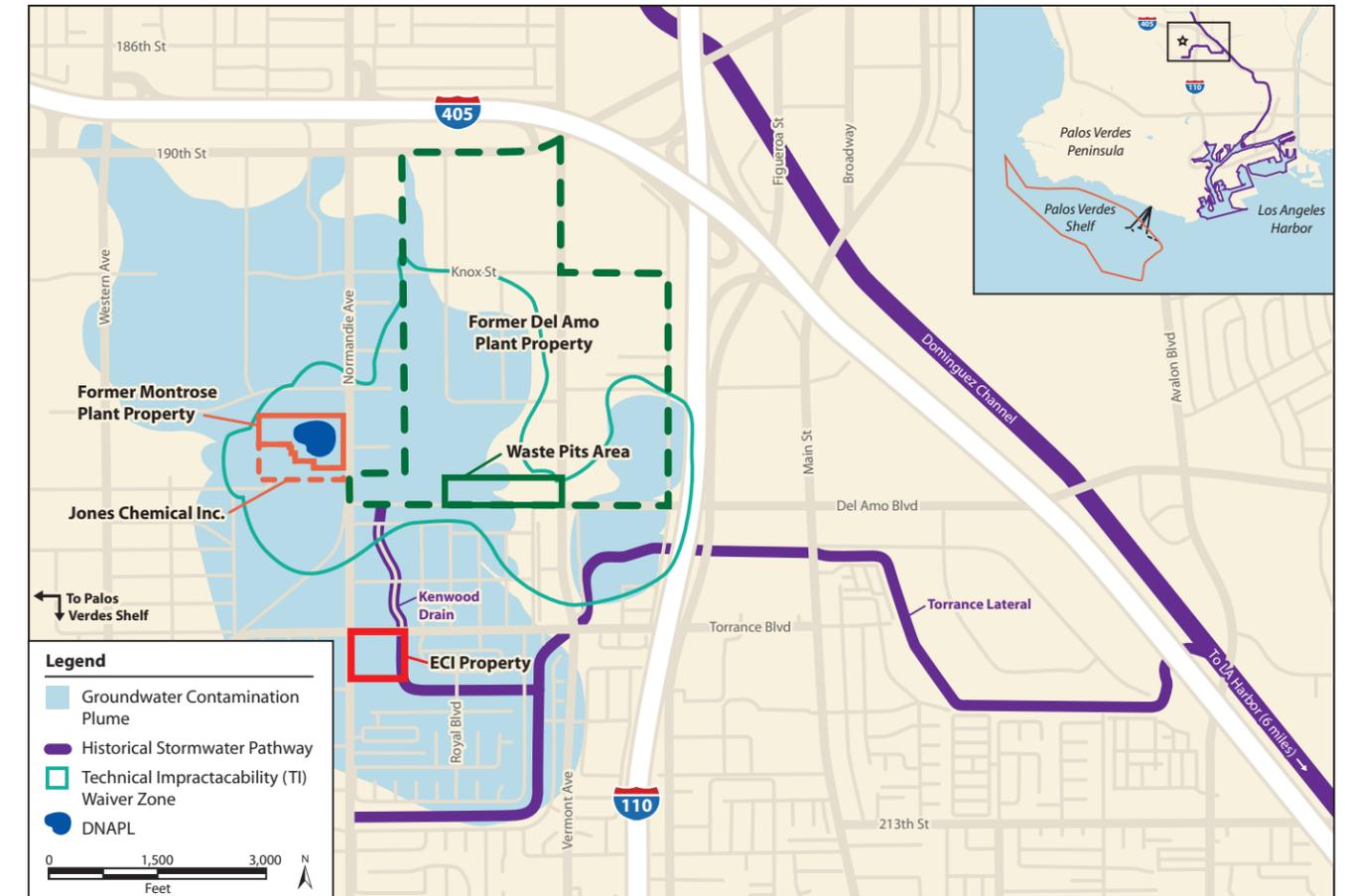


Groundwater Treatment System



Montrose & Del Amo Superfund Sites

Harbor Gateway, Los Angeles County, CA



How Do I Get More Information?

If you have any questions about the Del Amo or Montrose Superfund Sites or if you would like to be added to the site mailing list, please don't hesitate to contact us.

EPA Community Involvement Coordinator

Yolanda Sanchez
 (415) 972-3880
sanchez.yolanda@epa.gov

Information Repositories

An information repository is placed near a Superfund site and contains documents, reports, and letters about site cleanup activities.

Carson Public Library
 151 East Carson Street
 Carson, CA 90745
 (310) 830-0901

Torrance Civic Center Library
 3301 Torrance Boulevard
 Torrance, CA 90503
 (310) 618-5959

Superfund Records Center
 Mail Stop SFD-7C
 95 Hawthorne St., Room 403
 San Francisco, CA 94105
 (415) 536-2000

Websites

Del Amo Superfund site website: <http://www.epa.gov/superfund/delamo>
 Montrose Superfund site website: <http://www.epa.gov/superfund/montrose>

United States Environmental Protection Agency, Region 9
75 Hawthorne Street (SFD-6-3)
San Francisco, CA 94105
Attn: Yolanda Sanchez (Montrose/Del Amo 10/16)

FIRST-CLASS MAIL
POSTAGE & FEES
PAID
U.S. EPA
Permit No. G-35

*Official Business
Penalty for Private Use, \$300*

Address Service Requested

 Printed on 30% Postconsumer Recycled/Recyclable Paper



Montrose & Del Amo Superfund Sites/Sitios Superfund

PLEASE JOIN US!

Community “Open House” Event

EPA will hold a community
“open house” event:

Wednesday, November 9, 2016
6:00 p.m. – 8:00 p.m.

Please contact Yolanda Sanchez,
the Community Involvement Coordinator
if you have suggestions regarding
this event.

¡ÚNASE A NOSOTROS!

Reunión Informativa “Puertas Abiertas”

La EPA organizará una reunión
informativa abierta a la comunidad:

miércoles 9 de noviembre
2016 – 6:00 p.m. a 8:00 p.m.

Por favor, contacte a Yolanda Sanchez,
la Coordinadora de
Participación Comunitaria
si tiene sugerencias para este evento.

LOCATION

Holiday Inn - Pacific Room
19800 South Vermont
Torrance, CA 90502

