



Community Involvement Plan

April 2010

Community Involvement in Cleanup Decisions

Public safety and a healthy environment are important to the Harbor Gateway community located in Los Angeles County, California. The United States (U.S.) Environmental Protection Agency (EPA) has been working with other government agencies, local agencies, environmental and community organizations, local businesses, and interested residents to ensure the protection of both the environment and public health in the areas surrounding two Superfund sites: the Montrose Superfund Site and the Del Amo Superfund Site (Sites).

When EPA begins work at any Superfund site, we develop a **Community Involvement Plan (CIP)** to assist with sharing information regarding the site. Because of the diversity and complexity of the Sites, this CIP is a living document that will grow and change over time. This approach provides the flexibility and opportunity to develop event specific plans and communication strategies, depending on the needs of the community, and add them to the CIP.

Because the Montrose and Del Amo Superfund Sites are located in the same community, EPA has prepared one CIP to address community outreach for both Sites. Moreover, the Montrose Superfund Site includes multiple **operable units (OUs)**, or projects, which involve different work activities, different remedial strategies, different community elements, and hence different community needs. The Del Amo Superfund Site has three OUs (OU-1 through OU-3), and the Montrose Superfund Site has seven operable units (OU-1 through OU-7). Community involvement activities associated with OU-5, which is a project involving contaminated sediments on the Palos Verdes Shelf off the coast of the Palos Verdes Peninsula, are discussed in a separate CIP, and are not included in this CIP. For more information on Palos Verdes Shelf, see the following websites:

- <http://www.epa.gov/region09/palosverdeshelf>
- <http://www.pvsfish.org>

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Definitions of **bolded** words are provided in Appendix D, Glossary, and abbreviations used in this document are included in Appendix E, Acronyms and Abbreviations.

The Superfund Process

The First Look

Preliminary Assessment/
Site Inspection (PA/SI)



A Closer Look

Remedial Investigation
(RI)



What Works?

Feasibility Study
(FS)



Public Input

Proposed Plan



Agreement

Record of Decision
(ROD)



Cleanup Plan

Remedial Design
(RD)



Cleanup

Remedial Action
(RA)



Monitoring

Long-Term Operation
and Maintenance



DONE!

The CIP guides the involvement of both the affected community and the lead agency or agencies regarding cleanup plans and actions. This document serves as an update to the 1996 Montrose and Del Amo Superfund Sites Community Relations Plan CIP. One of EPA’s goals, as outlined in this CIP, is to involve members of the community in each stage of work. EPA will achieve this goal by keeping community members informed of plans, activities, and findings. EPA will provide opportunities for you to express your preferences and concerns, and will consider these concerns when performing work at the Sites. EPA will also be open to changing community relations activities, which will be documented in Appendix C.

EPA distributed fact sheets to area residents and businesses, conducted 23 interviews with community members and businesses in March 2008, and held public meetings to describe planned work on the Sites and to solicit comments and concerns. EPA conducted these activities to learn about the needs and priorities of the community. What we learned from talking with people in your community forms the basis of this plan for EPA community involvement activities in the region.

What is Superfund?

Congress established the Superfund Program in 1980 to clean up hazardous waste sites. Administered by EPA, the goal of the Superfund Program is to identify, investigate, and clean up abandoned hazardous waste sites throughout the nation. The Superfund Process is shown on this page.

Community Comments and Concerns

From community interviews, EPA learned that some members of the community are extremely interested in the work being performed because of their involvement in other environmental quality issues. EPA conducted interviews to discuss the Sites with local officials, local governing agencies, long-time residents, neighborhood council representatives, field representatives for local governments, activists, and business groups. Interested community members became involved in the CIP process by sharing their opinions and knowledge about the Sites during community interviews held in March 2008.

Information contained in this section is based primarily on information gathered from 23 community interviews. The interviewees were selected from interested Los Angeles community members who live and/or work in the area. More than half of the participants are long-time area residents (15 or more years); 11 of the participants have lived in the area for more than 30 years. A majority of the participants (74 percent) were familiar with the Sites. Most learned about the Sites through EPA's Web site, public notices, fact sheets, and correspondence with EPA. Additionally, most interviewees learned about the Sites through the news media and their workplace; they worked with the city, county, business groups, or local businesses.

The following is a brief summary of some of the major issues and concerns interviewees shared with EPA. Note that the significance of specific issues may vary by OU (project):

- **Public health and safety**, especially with regard to the types, levels, and extent of contamination.
- **The environment**, including wildlife impacts, and soil and groundwater contamination effects.
- **Local community impacts**, including effects on property values, community aesthetics after cleanup of Sites, economic repercussions on local businesses, and stigma of being located near Superfund sites.
- **Timeline of the Sites**, including status of the cleanup of the Sites, current status of cleanup, and timeframe for remediation.
- **Future planning**, including reuse of an undeveloped parcel for potential use as a park and plans for future development at the Sites or in the community.
- **Cleanup management**, including proposed methods and length of time required.

Community Involvement Objectives

EPA periodically updates the CIP to adapt to the needs of the community as investigation and cleanup at the Sites progresses. This plan identifies three main objectives and proposes community outreach activities to involve the community. EPA encourages the public to identify specific activities or tools that will enhance community awareness of Site issues and ensure effective communication with EPA and other agencies. EPA will make additional services available to persons with special needs. Please contact the EPA representatives listed in Appendix F for these additional services.

Among the objectives and proposed activities listed below, EPA's strategy for outreach to the community includes holding public meetings as necessary. Similarly, EPA will begin to offer bi-annual progress reports to provide regular updates to the community. Fact sheets will continue to be published, introducing the public to new projects or alerting the public of major milestones. The progress reports will be distributed in the same way as the regular fact sheets, through EPA's postal and electronic mailing lists. EPA will distribute flyers to communities directly impacted by project implementation and will update the public on current project information online at: www.epa.gov/region09/montrose and www.epa.gov/region09/delamo.

The objectives and proposed activities of this CIP are as follows:

1. Establish regular and open dialog with the community in order to respond to questions and concerns.

Community interviews. EPA conducted 21 in-person interviews, 1 phone interview, and 1 written interview in March 2008. EPA interviewed a cross-section of community representatives from environmental and public interest groups, local government, businesses, neighborhood council representatives, and activists.

Outreach to targeted population. Pertinent information will be translated into Spanish, depending on needs and interests in the communities of the project area.

Fulfillment of statutory requirements regarding public notice and public involvement opportunities. EPA project managers and community involvement coordinators will ensure that EPA meets all legal requirements for public involvement in the investigation and cleanup at the Sites.

Evaluation of CIP effectiveness. Feedback on public outreach will be collected through comments received via e-mail, by telephone, and at meetings, presentations, and work sites. EPA will continue to incorporate the feedback into the CIP and its community involvement activities as needed.

2. Provide opportunities for public participation in Site decision making.

Interactive Information Sessions. EPA will host informational meetings and be available to participate in various community meetings at important stages of the project or when issues arise that may require public attention. To discuss new developments on the investigation and cleanup, and to keep current on community issues and concerns, project team members will:

- **Offer presentations upon request.** EPA will present information for interested community organizations and local governmental agencies at their regularly scheduled meetings, as scheduling allows.
- **Meet with interested community organizations and individuals.** EPA will meet with organizations and individuals on request, as scheduling allows.
- **Provide a way to contact EPA.** EPA project personnel will be available to answer questions and address comments by telephone, mail, and e-mail (see EPA contacts in Appendix F).

3. Provide consistent, regular, and timely information about the investigation, cleanup plans, and activities.

Site-related documents. Work plans, sampling results, and reports will be made available for public review after the EPA project team has reviewed them for accuracy. Documents will be available at the **information repositories**, on the EPA Web site, and upon request from the EPA Region 9 Superfund Records Center.

Plain language. Plain language and figures appropriate for the general public will be used. The Montrose/Del Amo communities are culturally diverse, speaking primarily English and Spanish. Outreach materials, as needed, will be made available in both English and Spanish.

Project mailing list. A mailing list will be developed and maintained for distributing printed information. To be added to the mailing list, please send a request by e-mail, telephone, or mail to EPA's Community Involvement Coordinator (see Appendix F). The Montrose/Del Amo mailing lists currently include approximately 2,200 contacts.

E-mail updates. Periodic updates such as public meeting date announcements, fact sheets, flyers, and other Site-specific information will be provided via e-mail to those parties who expressed willingness to distribute this information to their constituent mailing lists. EPA will develop and maintain an e-mail group list for this purpose.

Internet. Web sites will be maintained where documents will be available for viewing. Web addresses include:

- <http://www.epa.gov> (EPA headquarters home page)
- <http://www.epa.gov/region09> (EPA Region 9 home page)
- <http://www.epa.gov/region09/waste/sfund/index.html> (the Superfund site-specific documents page)
- <http://www.epa.gov/region09/Montrose> (Montrose Superfund site-specific Web page)
- <http://www.epa.gov/region09/DelAmo> (Del Amo Superfund site-specific Web page)

Web pages and technical documents are in English only, but project information, such as fact sheets, progress reports, and meeting flyers will continue to be posted in Spanish as well. EPA will also coordinate with several organizations that have offered to link their Web sites to the EPA Web sites.

Progress Reports. A bi-annual progress report will be distributed through postal and electronic mailing lists. It will provide consistent updates to the public on the recent history, accomplishments, and next steps of the various Del Amo and Montrose OUs.

News media. Timely and accurate project news will be shared through mass media outlets, including the Spanish-speaking media. To the extent feasible, EPA may distribute information through electronic and print media. See Appendix F for local media outlets.

Interactive meetings. EPA will attend regularly scheduled meetings of community groups, agencies, city councils, and neighborhood associations upon request and as scheduling allows.

**Information Repositories
for Montrose/Del Amo
Superfund Sites**

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

Information repositories. EPA has established locations within the community where you can review project documents. EPA will create introduction binders on the Sites to provide basic history, timelines, and factsheets to help the public better understand the Sites. Information repositories are maintained at the Torrance Civic Center Library, the Carson Public Library, and the EPA Region 9 Headquarters. Library information is shown on this page and in Appendix F.

Community Profile

Los Angeles County – Harbor Gateway Community

The Sites are located in a community known as Harbor Gateway, which is situated mostly in the City of Los Angeles and partially in unincorporated land in Los Angeles County. Harbor Gateway's boundaries are roughly the city of Gardena to the north, State Route 91 (Gardena Freeway) to the northeast, State Route 110 (Harbor Freeway) and the City of Carson to the east, the city of Harbor City to the south, the Port of Los Angeles further southeast, and the city of Torrance to the west.

More specifically, the Harbor Gateway community boundaries are south of 120th Street, west of the Harbor Freeway (110 Freeway), north of Sepulveda Boulevard, and east of Western Avenue.

The Sites are located in the southern portion of greater Los Angeles, approximately 14 miles south of downtown Los Angeles. The specific OUs (projects) for the Sites are located in the City of Los Angeles, unincorporated Los Angeles County, or the City of Torrance, California. Figure 1 shows the boundaries of the OUs. The City of Los Angeles – specifically the Harbor Gateway community – is most affected by the Sites. Surrounding Harbor Gateway are the communities of Southeast Los Angeles, Wilmington-Harbor City, Gardena, Torrance, and Carson.

The demographics of the community are detailed here and in Figure 2. The population increased 10 percent in the 1990s. In 2000, approximately 39,976 residents were living in Harbor Gateway. As shown in Figure 2, approximately 54 percent of the population is Latino, 16 percent is African-American, 15 percent is Asian, 12 percent is Anglo, 2 percent is two or more races, less than one percent is Pacific Islander, and less than half a percent is Native American/Native Alaskan (U.S. Census Bureau, 2000). The median annual income per household for Harbor Gateway was \$36,100, which is lower than the county median income of \$42,189.

The Harbor Gateway community consists of commercial development, industrial districts, and single- and multiple-family residential units (City of Los Angeles, Harbor Gateway Community Plan, 1995). As shown in Table 1, the predominant occupations in the community are in the fields of manufacturing, management/professional, service, and sales. Additional background information on the Montrose and Del Amo Superfund Sites is provided in Appendix A.

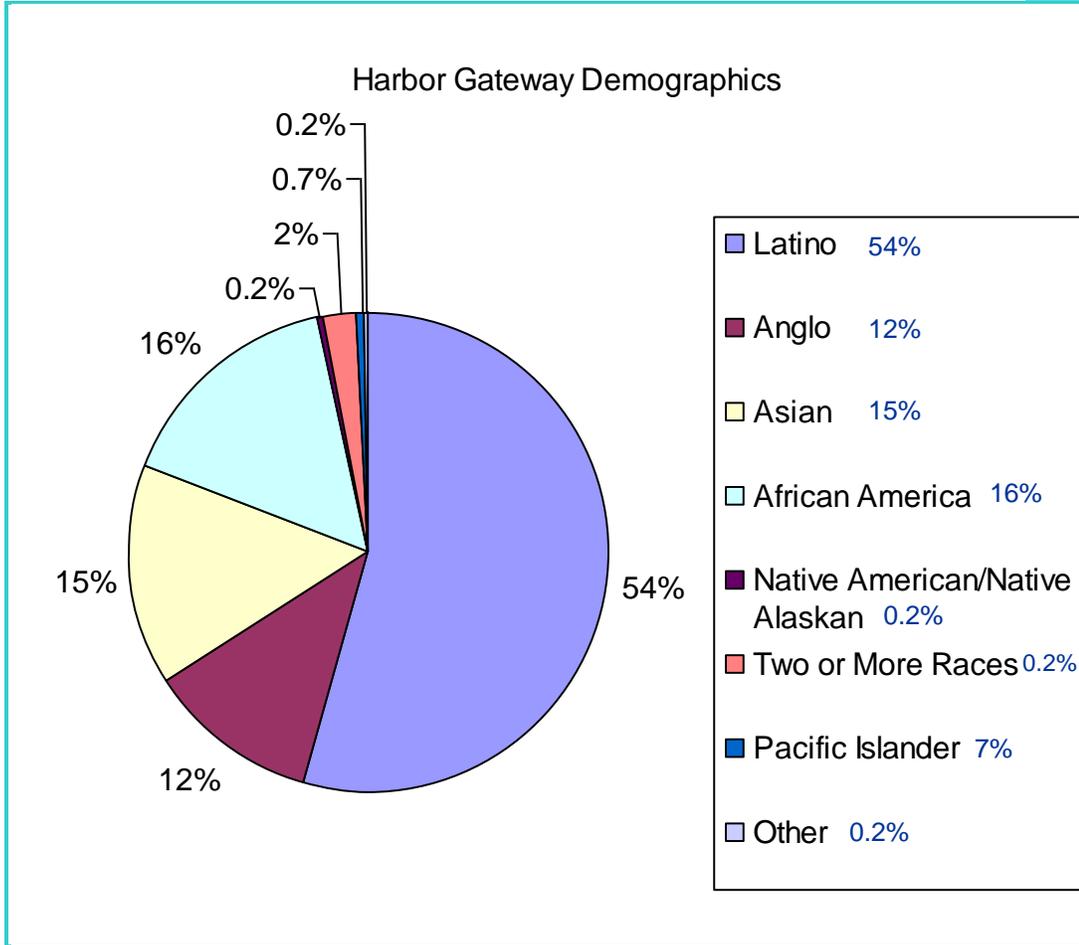


Figure 2. Harbor Gateway Demographics

Source: U.S. Census, 2000

Table 1. Types of Occupations in Harbor Gateway

| Type of Occupation | Percent |
|---------------------------------------|---------|
| Sales and Office | 26 |
| Service | 22 |
| Management, Professional, and Related | 21 |
| Manufacturing and Transportation | 21 |
| Mining and Construction | 9 |
| Farming, Fishing, and Forest | 0.4 |

Source: U.S. Census, 2000.

In 2000, approximately 39 percent of housing units were owner-occupied, while 58 percent were rented. English is the primary language in approximately 40 percent of all households, while Spanish is the primary language in 42 percent of all households (Table 2).

Table 2. Household Language in Harbor Gateway

| Type of Language | Percent |
|----------------------------|---------|
| Spanish | 42 |
| English | 40 |
| Asian and Pacific Islander | 14.5 |
| Other Indo-European | 2.0 |
| Other | 1.0 |

Source: U.S. Census, 2000.

Within the Harbor Gateway community, the percentage of the adult population with a bachelor’s degree or higher is approximately 9 percent, which is lower than Los Angeles County as a whole. The educational attainment for adults 25 years and older in Harbor Gateway, and in Los Angeles County as a whole, is detailed in Table 3.

Table 3. Educational Attainment for Adults 25 and Older within the Harbor Gateway Community and Los Angeles County

| Geographic Area | Population 25 years and over | Percentage of Adults who completed Less than 9th grade | Percentage of Adults who completed 9th Grade or greater, but, with No Diploma | Percentage of Adults with High School Diploma Only | Percentage of Adults with an Associate Degree | Percentage of Adults with a Bachelor’s Degree | Percentage of Adults with Graduate or Professional Degree |
|------------------------------|------------------------------|--|---|--|---|---|---|
| Harbor Gateway Community | 22,456 | 28% | 22.4% | 27.6% | 5.7% | 9.1% | 3.1% |
| Los Angeles County, entirety | 5,882,948 | 16.2% | 13.8% | 18.8% | 6.2% | 16.1% | 7.8% |

Source: U.S. Census 2000.

Sensitive Receptors

Sensitive receptors are people who are more susceptible to health problems if exposed to contamination in the soil, water, or air. Sensitive receptors include young children (ages 0 to 6), senior citizens, people with respiratory problems, and pregnant women. Additionally, as shown in Figure 1, Montrose OU-2 is submerged in water; therefore, sensitive receptors in that OU were not studied for this CIP. Figure 3 shows sensitive receptors within a 1-mile radius of the Sites.

Locations with sensitive receptors in a 1-mile radius of the Sites are shown in Figure 2 and include:

- Schools
- Hospitals
- Child Day Care Centers
- Senior Care or Centers
- Other Facilities

Based on studies performed to date and to the best of EPA’s knowledge, the Sites do not pose a health risk to sensitive receptors or other people at these locations.

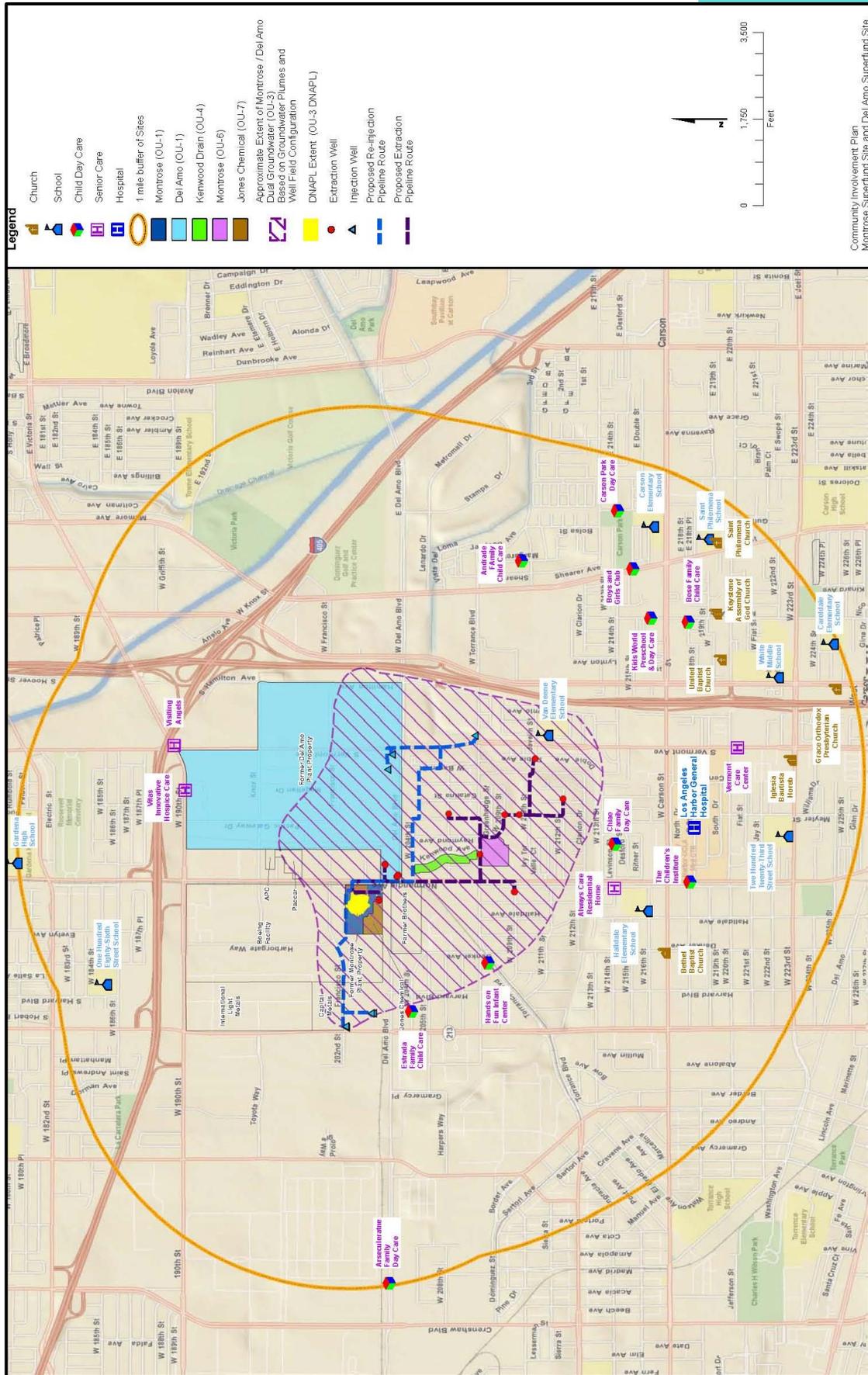


Figure 3. Montrose Site and Sensitive Receptor Map

Community Involvement Action Plan and Chronology

Community members have suggested ways that EPA can effectively keep you involved or informed about the cleanup process to achieve the objectives of this plan. Several community members suggested the following: e-mail distributions; building a relationship with the community by attending Neighborhood Council meetings and establishing a presence in Los Angeles; utilizing the local news media and schools; and continuing distribution of fact sheets to the community.

As a result of community input, EPA has identified public outreach activities that will help satisfy the goals of this plan. Investigation and cleanup of the Montrose and Del Amo Superfund Sites is being carried out through multiple projects distinguished by OUs. Therefore, each OU will have its own specific schedule. Table 4 outlines the community involvement actions that have occurred as investigation and cleanup activities have progressed at the Sites. This plan will change as the Sites continue through the investigations and cleanup process, and the appendices will include future Community Involvement Actions.

**Table 4 – TENTATIVE COMMUNITY INVOLVEMENT
ACTION PLAN AND CHRONOLOGY**

| Period | Activity | Associated Operable Unit |
|-----------------------------|---|---|
| 1995 to 1998 | A Montrose neighborhood clinic was operated by the University of California-Irvine, Center for Occupational and Environmental Health and the Occupational and Environmental Health program at the University of California-Los Angeles School of Medicine. A total of 596 residents were seen and examined. | All Existing Montrose OUs and Del Amo OUs |
| September 1997 to July 2008 | EPA distributes fact sheets and community notices (see Appendix B) Del Amo and Montrose Superfund Sites Fact Sheets). | All Existing Montrose OUs and Del Amo OUs |
| May 2003 | EPA holds open house for Del Amo Superfund Site. | Del Amo OU-2 |
| 2006 | EPA notifies community of Well Installation for Groundwater Test for Montrose Site (English and Spanish flyer). EPA attends and distributes information at the Harbor City/Harbor Gateway Chamber of Commerce Business Expo. | Montrose OU-3 Montrose OU-3 and Del Amo OU-1 and OU-3 |
| 2007 | EPA notifies community of Well Installation for Groundwater Test for Montrose Site (English and Spanish flyer). EPA notifies community of Groundwater Extraction Test on 209th and 212th Streets (English and Spanish flyer). EPA notifies community of Water Injection Test on Private Property at 20100 South Western Avenue for Montrose Site (English and Spanish flyer). EPA notifies community of overseeing soil sampling at Jones Chemical Incorporation (English and Spanish flyer). EPA notifies community of removal action on Kenwood Avenue (English and Spanish flyer). | Montrose OU-3 Montrose OU-3 Montrose OU-3 Montrose OU-1 Montrose OU-4 |
| March to July 2008 | EPA notifies community of soil sampling on and near Montrose (English and Spanish flyer). EPA performs community interviews in preparation for the CIP. EPA holds community meeting for the Del Amo Superfund Site Feasibility Study . The meeting is translated into Spanish. | Montrose OU-1 Montrose OU-1, OU-2, OU-3, OU-4, OU-6, OU-7 Del Amo OU-1 |
| January 2010 | EPA hosts a public meeting to discuss groundwater remedy. | Montrose OU-3 |
| June 2010 | EPA hosts a public meeting to discuss Del Amo Soil and NAPL Proposed Plan. | Del Amo OU-1 |
| Ongoing | EPA provides translation and interpretation services. | All Montrose OUs and Del Amo OU-1 |
| Ongoing | EPA responds to hotline and other public inquiries within 24 hours of request. | All OUs |

References

Los Angeles, City of. 1995. Harbor Gateway Community Plan.

United States Census Bureau. 2000. U.S. Department of Commerce. Washington, DC. <http://factfinder.census.gov>.

EPA. 1996. Del Amo and Montrose Superfund Sites Community Relations Plan.

Appendix A. Background of the Montrose and Del Amo Superfund Sites

Montrose Chemical Corporation of California

Montrose Chemical Corporation of California (Montrose) manufactured the technical grade of the pesticide dichloro-diphenyl-trichloroethane (DDT) from 1947 until 1982 at a plant located at 20201 Normandie Avenue, in Los Angeles County, California (Montrose Property). The former plant operations included manufacturing, grinding, packaging, and distributing the DDT pesticide. Various locations on the former plant property were used for storing chemical raw materials, DDT, and waste products. The plant was disassembled and removed from the property in 1982. Currently, the Montrose Property is undeveloped and unoccupied.

Various hazardous substances, pollutants, or contaminants entered the environment via several pathways over the 35 years of operation of the former Montrose plant. These pathways included, but were not limited to, release of dense non-aqueous phase liquid (DNAPL) to the ground, release of wastewaters to the ground, releases to the stormwater drainage pathways, discharge of hazardous substances to sanitary sewers, aerial dispersion of DDT dust, and disposal of DDT in soil fill materials. EPA has been conducting investigations to assess whether, where, and how much of this contamination persists today from these pathways. EPA is selecting cleanup actions to address contamination from the former Montrose plant.

DDT has been found in: (1) soils at the former Montrose Property and surrounding areas; (2) sediments and soils in the historical stormwater pathway; (3) the sanitary sewer system where Montrose historically discharged wastes from its operation; and (4) groundwater extremely close to the former plant property. For additional historical information, please see the EPA Montrose Website

The following provides a brief description of the Montrose Operable Unit Sites (OUs).

Operable Unit 1 (OU- 1), Soils. OU-1 involves the investigation and study of contamination in shallow soils and soil gas that are present as a result of past activities at the site. The boundaries of OU-1 include the Montrose Property, as well as neighboring properties located immediately to the north, east, and south of the Montrose Property. This OU is in the feasibility study (FS) stage of the Superfund process.

Operable Unit 2 (OU-2), Stormwater Pathway Consolidated Slip Sediment. OU-2 involves the investigation of fish that may be contaminated from contaminated sediments that in the past originated at the Montrose Site and were discharged to the marine environment through drainage channels. A full-scale Ecological Risk assessment, including field sampling and data evaluation, was completed for OU-2. Additionally, an evaluation for human health risk assessment (HHRA) was conducted. These activities provided the initial steps for an engineering evaluation/cost analysis (EE/CA). This OU is currently in the remedial investigation (RI) stage of the Superfund process.

Operable Unit 3 (OU-3), Montrose/Del Amo Dual Site Groundwater and Montrose DNAPL. OU-3 includes the groundwater where the contamination from the Del Amo site co-mingled with the contamination from the nearby Montrose Superfund site. The cleanup decision, or Record of Decision (ROD), for the dual-site groundwater contamination was made in 1999, and the cleanup system is currently being designed. This OU is in the remedial design (RD) stage of the Superfund process.

The Montrose DNAPL OU includes DNAPL beneath the Montrose Property. EPA is providing oversight of the DNAPL FS that is being prepared by Montrose Chemical Corporation. The extent of the Montrose DNAPL occurs within the Montrose Property. The DNAPL OU is currently in the FS stage of the Superfund process.

Operable Unit 4 (OU-4), Soil Cell Site and Kenwood. OU-4 involved the investigation and removal of shallow soil from residential properties. It was found that soil in some of the residential yards in the Kenwood Avenue neighborhood contained DDT that posed an unacceptable long-term health risk to residents. EPA excavated and removed DDT-contaminated soil and associated debris from residential yards within the Kenwood Neighborhood. The soil and debris were placed into storage cells that were constructed on the Montrose Property. Montrose OU-4 maintains and inspects the soil cells weekly to ensure that there are no contamination leaks. This OU is in the Long-Term Operation and Maintenance (O&M) stage of the Superfund process.

Operable Unit 5 (OU-5), Palos Verdes Shelf. Under OU-5, outreach and education activities were conducted, designed, and implemented as a component of the Institutional Controls (ICs) program to protect human health by reducing or eliminating exposure to contaminated white croaker caught from the Palos Verdes Shelf area. As noted earlier in this document, OU-5 is addressed in a different CIP. Outreach and education for the Palos Verdes Shelf OU is in the RI stage of the Superfund process.

OU-5 also evaluates the need and feasibility for actions to address human health and ecological risks. A pilot capping project was initiated in which clean sediment was placed over a small area (1 percent) of the contaminated ocean floor. The pilot project provided an opportunity to evaluate cap-placement methods and construction-related impacts. Collected data will be used to decide if a full-scale capping project should be implemented. This OU is in the Proposed Plan stage of the Superfund process.

Operable Unit 6 (OU-6), Southern Stormwater Pathway. OU-6 involves the investigation of soils on portions of the Ecology Control Industries (ECI) property and seven adjacent residential properties located south of Torrance Boulevard to define the areas that may contain the pesticide DDT and other chemicals that EPA believes originated at the former Montrose DDT plant. The investigation area is located along a portion of the former historical stormwater drainage ditch that originated at the Montrose Plant Property. This OU is currently in the RI/FS stage of the Superfund process.

Operable Unit 7 (OU-7), Jones Chemical Oversight RI/FS. OU-7 involves the investigation on the Jones Chemical, Inc. (JCI) property, located at 1401 Del Amo Boulevard, Torrance, California. The goal of the sampling is to better define the areas where volatile organic compounds (VOCs) (such as trichloroethene [TCE] and tetrachloroethene [PCE]) and other chemicals may have been released into soils and groundwater from historical operations at the JCI property. The JCI property is south of the former Montrose Plant. This OU is currently in the RI/FS stage of the Superfund process.

Del Amo Facility

The Del Amo facility is located immediately east of the former Montrose Property. From 1943 until 1972, the Del Amo facility was a center of large-scale industrial activities. Originally built to produce synthetic rubber during World War II and

owned by the U.S. government, the Del Amo facility consisted of a styrene plant operated by Dow Chemical Company; a butadiene plant operated by Shell Oil Company; and a synthetic rubber plant operated by U.S. Rubber Company, Goodyear Tire & Rubber Company, and others. In 1955, the U.S. government sold all three plants to Shell Oil Company and Shell continued to operate these plants until 1971. Synthetic rubber was produced by manufacturing styrene and butadiene separately, piping them to the rubber plant, and then mixing the two together. Within each facility, wastes from the production processes were directed into separator units. Settled sludge was disposed of either offsite or in a waste disposal area located on the southern portion of the site. Six unlined pits and three unlined evaporation ponds made up the 4-acre onsite disposal area. Upon closure in 1972, the unlined pits and ponds that were still open were covered with soil.

Most of the 280-acre facility has since been developed as an industrial park. In 1984, contamination was discovered in the waste disposal area and underlying soils. Currently, the 4-acre waste pit disposal area is sealed and the property is undeveloped. Groundwater located beneath the Site is heavily contaminated and groundwater contamination from both the Montrose and Del Amo Superfund Sites has merged. Groundwater beneath the Site is not presently used as a source of drinking water; however, the deeper drinking water aquifer supplies residents located within 4 miles of the Del Amo facility. The contaminated water is not consumed and the state of California has classified the groundwater as potential drinking water. The current wells that are used for drinking water are located outside the area of groundwater contamination and almost all of them draw water from aquifers below those currently contaminated. For these reasons, residents are not currently exposed to contaminated groundwater.

The Del Amo Superfund Site is being addressed in three long-term remedial phases focusing on the remainder of the former facility area soils (OU-1), cleanup of the waste pit area (OU-2), and cleanup of the groundwater (OU-3, combined effort with Montrose project). The two OUs are described below. For additional historical information please go to: www.epa.gov/region09/DelAmo.

Operable Unit 1 (OU-1), Soil and NAPL. This OU included all soil outside the waste pit area and is currently in the Proposed Plan stage of the Superfund process. OU-1 is the third and last operable unit at Del Amo to complete its investigation and propose a remedy. OU 1 will address soil contamination, including NAPL, based on potential health risk to current and future occupants of the site, as well as contribution to groundwater contamination. This OU is currently in the FS stage of the Superfund process.

Operable Unit 2 (OU-2), Waste Pits Area. This OU included the waste deposited in the waste pits as well as the surrounding impacted soil. Early cleanup actions at the Waste Pits Area occurred in the 1980s, at which time the owners worked with the California Department of Health Services to remove some waste. Temporary cleanup actions at the waste pits continued and consisted of removing sludge material that seeped through the soil onto the surface, until the final cleanup system was constructed. The final cleanup decision for the Waste Pits Area was made in 1997; the decision consisted of a multi-layered cap and a soil gas extraction system. The systems have since been built and are currently being operated. This OU is currently in the RA stage of the Superfund process.

Operable Unit 3 (OU-3), Groundwater. (See Montrose OU-3)

Appendix B. Community Outreach Documents

All documents related to the Montrose and Del Amo Superfund Sites are available at the information repositories listed in Appendix F and at:

<http://www.epa.gov/region09/DelAmo> and

<http://www.epa.gov/region09/Montrose>

Montrose Superfund Site – Fact Sheets

| | |
|----------------|---|
| June 1998 | EPA Proposes Groundwater Cleanup Plan |
| June 1998 | EPA Proposes Groundwater Plan |
| June 1998 | EPA to Complete Removal of DDT Fill on 204th Street (English and Spanish) |
| April 1999 | EPA Announces Decision for Groundwater Cleanup (English and Spanish) |
| November 1999 | Soil and Produce Results for 30-Block Area (English and Spanish) |
| February 2001 | Answers to Recent Questions about EPA’s Proposal for Yards on the West Side of Kenwood Avenue (English and Spanish) |
| June 2001 | “Responding to You” Series 1 – What Happens Between Now and When the Cleanup Starts? (English and Spanish) |
| June 2001 | “Responding to You” Series 2 – What We Found and What We are Doing (English and Spanish) |
| June 2001 | “Responding to You” Series 3 – How the Cleanup Will Work (English and Spanish) |
| June 2001 | “Responding to You” Series 4 – Additional Yards to be Cleaned Up (English and Spanish) |
| June 2001 | “Responding to You” Series 5 – Permanent Relocation and Buy-outs (English and Spanish) |
| July 2001 | EPA Cleanup of West Side of Kenwood Avenue (English and Spanish) |
| August 2001 | Kenwood Avenue Update |
| September 2001 | Kenwood Avenue Update |
| October 2001 | Kenwood Avenue Update |
| November 2001 | Kenwood Avenue Update |
| July 2002 | Kenwood Avenue Cleanup is Complete (English and Spanish) |
| May 2003 | Update on Field and Laboratory Studies at the Former Montrose Plant Property (English and Spanish) |
| February 2005 | Additional Sampling of Soils at Montrose Plant and Nearby Commercial Properties (English and Spanish) |

| | |
|---------------|---|
| January 2006 | EPA Update: Environmental Activities at 20846 Normandie Avenue |
| June 2006 | Upcoming Environmental Activities near Torrance Boulevard and Normandie Avenue |
| November 2006 | Update on EPA's Soil Sampling Activities, Historical Stormwater Pathway – South |
| May 2007 | EPA to Oversee Additional Soil Sampling at ECI Property |
| October 2007 | EPA to Oversee Soil Sampling at Jones Chemical Incorporation |
| January 2010 | Groundwater Cleanup Project Design |
| March 2010 | Soil Sampling on Montrose Property |
| March 2010 | Utility Locating Work |

Del Amo Superfund Site – Fact Sheets

| | |
|----------------|--|
| September 1997 | EPA Announces Proposed Plan for Cleanup of Waste Pits at Del Amo Site |
| June 1998 | EPA Proposes Groundwater Cleanup Plan |
| March 1999 | Waste Pits Construction Begins in May |
| November 1999 | EPA Wants Your Input on How We Treat the Waste Pits Soil Vapors Extracted During Cleanup (English and Spanish) |
| December 1999 | Del Amo Site Update – Waste Pits Soil Vapor Extraction Treatment Options |
| November 2002 | Chevron to do Maintenance Work (English and Spanish) |
| May 2003 | Resin Adsorption Pilot Project to Begin (English and Spanish) |
| January 2006 | U.S. EPA Completes First Five-Year Review of Del Amo Waste Pits |
| January 2008 | Progress Update on the New System that is Removing Contamination at the Del Amo Waste Pits |
| April 2008 | EPA and City of Los Angeles to Implement Environmental Review Pilot Program at Del Amo Superfund Site |
| July 2008 | Community Meeting Notice – Feasibility Study (English and Spanish) |
| January 2010 | Groundwater Cleanup Project Design |
| March 2010 | Utility Locating Work |

Appendix C. Additional Community Involvement Strategies – OU Specific

Appendix D. Glossary

Aquifer: An underground geologic formation containing groundwater.

Community Involvement Plan (CIP): A plan for community involvement objectives and activities related to a specific site.

Dense Non-aqueous Phase Liquid (DNAPL): The form of being of a chemical where it is present in a concentrated liquid phase rather than being dissolved in groundwater or adsorbed onto soil. It is incapable of being mixed with groundwater but constantly dissolves when in contact with groundwater; therefore representing a continuing source of groundwater contamination. Non-aqueous Phase Liquid (NAPL) that is denser than water is referred to as **DNAPL**.

Dichloro-diphenyl-trichloroethane (DDT): A chlorinated hydrocarbon insecticide that can collect in fatty tissues of certain animals. DDT was banned from all but emergency uses in the United States in 1972 because of its persistence in the environment and accumulation in the food chain.

Feasibility Study (FS): A part of the Superfund process in which EPA or others identify cleanup options at a site (including taking no action); evaluate the options based on their cost, effectiveness, and other criteria; and compare their relative strengths and weaknesses.

Groundwater: The water occurring underground, generally in an aquifer.

Information Repository: The location in the area of a site where selected documents are available for public review.

Operable Unit (OU): Term for each of a number of separate activities undertaken as part of a Superfund site cleanup.

Pathway: The physical course a chemical or pollutant takes from its source to the exposed organism.

Record of Decision (ROD): A document, adopted by EPA or another agency after public input, that specifies the cleanup plan for a site or a portion of a site.

Remedial Action (RA): The construction or implementation phase of a Superfund site cleanup that follows remedial design.

Remedial Design (RD): A phase of remedial action that follows the Remedial Investigation/Feasibility Study (RI/FS) and includes development of engineering drawings and specifications for a site cleanup.

Remedial Investigation (RI): Actions undertaken to define the full nature and extent of contamination, including characterization of hazardous substances, identification of sources, assessment of human health and ecological risks.

Superfund: Congress established the Superfund Program in 1980 to clean up hazardous waste sites. Administered by EPA, the goal of the Superfund Program is to identify, investigate, and clean up abandoned hazardous waste sites throughout the nation.

Technical Assistant Grant (TAG): Funds provided by EPA for communities affected by Superfund sites to hire an independent technical advisor to help interpret and comment on site-related information.

Appendix E. Acronyms and Abbreviations

| | |
|----------|--|
| CIP | Community Involvement Plan |
| DAAC | Del Amo Action Committee |
| DDT | dichloro-diphenyl-trichloroethane |
| DNAPL | dense non-aqueous phase liquid |
| DONE | Department of Neighborhood Empowerment |
| ECI | Ecology Control Industries |
| EE/CA | engineering evaluation/ cost analysis |
| EPA | United States Environmental Protection Agency |
| FS | feasibility study |
| HHRA | human health risk assessment |
| IC | Institutional Control |
| JCI | Jones Chemical, Inc. |
| Montrose | Montrose Chemical Corporation of California |
| O&M | Operation and Maintenance |
| OU | operable unit |
| PCE | tetrachloroethene |
| RA | remedial action |
| RD | remedial design |
| RI | remedial investigation |
| ROD | Record of Decision |
| Sites | Montrose Superfund Site and Del Amo Superfund Site |
| TAG | Technical Assistance Grant |
| TCE | trichloroethene |
| U.S. | United States |
| VOC | volatiles organic compound |

Appendix F. Community Resources

This Community Involvement Plan (CIP) reflects our current understanding of community concerns. The CIP is designed to be a flexible working document, changing as community concerns change and as more information becomes available. Please direct questions, comments, concerns, and requests to:

U.S. Environmental Protection Agency, Region 9

Alejandro Díaz

Community Involvement Coordinator
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 972-3242
diaz.alejandro@epa.gov

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Montrose On- and Near-Property Soils (OU-1)
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U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street, SFD 8-2
San Francisco, CA 94105
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Michael Work

Montrose Kenwood Soils and Stormwater Pathway (OUs-2, 4, 6, and 7)
Remedial Project Manager
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street, SFD 8-3
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Shea Jones

Montrose Groundwater, OU-3
Remedial Project Manager
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street, SFD 8-2
San Francisco, CA 94105
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Carolyn d'Almeida

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U.S. Environmental Protection Agency, Region 9
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San Francisco, CA 94105
(415) 972-3150
dAlmeida.carolyn@epa.gov

Dante Rodriguez

Del Amo Site
Remedial Project Manager
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street, SFD 8-2
San Francisco, CA 94105
(415) 972-3166
rodriguez.dante@epa.gov

The toll-free EPA Community Involvement Office message line is (800) 231-3075.

To ensure effective communication with interested individuals or groups, EPA will make additional services available to persons with special needs. Please contact one of the representatives listed above.

Site Information Repositories**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 Street, Room 403
San Francisco, CA 94105
(415) 536-2000

Media**Daily Breeze**

5215 Torrance Boulevard
Torrance, CA 90503-4077
(323) 772-6281

La Opinión

700 South Flower Street, Suite 3000
Los Angeles, CA 90017-4101
(213) 896-2020

Random Lengths

1300 South Pacific Avenue
San Pedro, CA 90731
(310) 519-1442

Elected Officials

United States Senator

Barbara Boxer
312 North Spring Street, Suite 1748
Los Angeles, CA 90012
(213) 894-5000

United States Senator

Diane Feinstein
11111 Santa Monica Boulevard, Suite 915
Los Angeles, CA 90025
(310) 914-7300

Congressional District 36

Jane Harman
544 North Avalon Boulevard, Suite 307
Wilmington, CA 90744
(310) 549-8282

Congressional District 37

Laura Richardson
100 W. Broadway
West Tower, Suite 600
Long Beach, CA 90802

California State Assembly, District 55

Warren T. Furutani
4201 Long Beach Boulevard, Suite 327
Long Beach, CA 90807
(562) 989-2919

California Senate District 28

Honorable Jenny Oropeza
2512 Artesia Boulevard, Suite 200
Redondo Beach, CA 90278
(310) 318-6994

County of Los Angeles 4th District

Don Knabe
500 West Temple Street
Los Angeles, CA 90012
(213) 974-4444

County of Los Angeles 2nd District

Mark-Ridley Thomas
500 West Temple Street
Los Angeles, CA 90012
(213) 974-2222

Agencies

County of Los Angeles Department of Public Health, Office of Toxic Epidemiology

Janet Scully
Office of Toxic Epidemiology
695 South Vermont Avenue, 14th Floor-South Tower
Los Angeles, CA 90005
jscully@dhs.co.la.ca.us

City of Los Angeles

Environmental Affairs Department (EAD)
200 North Spring Street, Suite 303
Los Angeles, CA 90012
(213) 978-1492

Harbor City/Harbor Gateway Chamber of Commerce

JoeAnn Valle, Executive Director
19401 South Vermont Avenue, Suite G104
Harbor Gateway – Torrance, CA 90502
(310) 516-7933

Janice Hahn's 15th District

District Field Office
Reginald Zachary, Community Advocate for Harbor Gateway
19401 South Vermont Avenue, Suite G104
Harbor Gateway – Torrance, CA 90502
(310) 516-7933

City of Los Angeles, Department of Neighborhood Empowerment (DONE)

Neighborhood Council (NC)
Adrienne O'Neal Harbor Gateway NC President
aoniell@lewisenergy.net

Regional Hispanic Chamber of Commerce, President

555 East Ocean Boulevard, Suite 638
Long Beach, CA 90802
info@regionalhispaniccc.org

Department of Toxic Substances Control

Safouh Sayed
5796 Corporate Way
Cypress, CA 90630
(714) 484-5478
ssayed@dtsc.ca.gov

Other**Del Amo Action Committee (DAAC)**

Cynthia Babich, Director
1536 West 25th Street, Suite 440
San Pedro, CA 90732
(310) 831-6396
pemodog@sbcglobal.net

Meeting Rooms**Torrance Cultural Arts Center**

3330 Civic Center Drive
Torrance, CA 90503

Holiday Inn

19800 South Vermont Avenue
Torrance, CA 90502

Van Deene Elementary School

826 West Javelin Street
Torrance, CA 90502

Appendix G. Community Involvement Interview – Questions

To develop the Community Involvement Plan (CIP) for the Montrose and Del Amo Superfund Sites, EPA distributed fact sheets to area residents, businesses, and local agencies; described planned work on the Sites at Public Meetings and solicited comments and concerns; and conducted numerous interviews. The EPA conducted 23 interviews with community members. Interviews were conducted with a cross-section of the community in Harbor Gateway. The questions asked are listed below.

Background

1. How long have you lived or worked in the area?
2. Do you represent or belong to any community organizations, business organizations, or environmental groups?
3. Are you familiar with the Del Amo/Montrose Superfund Sites?
___ Yes ___ No
 - a. How would you rate your familiarity on a scale of 1 – 5 (5 being very familiar)?
 - b. What is your understanding of the contamination at the Montrose/ Del Amo Sites (DNAPL, soil, groundwater)?
4. How did you first become aware of environmental issues at the Site?
5. When and where do you usually get this information?
6. Have you personally been involved with the investigation and cleanup activities at this site? If so, how?

Interests and Concerns

7. What are your major concerns about the sites? (Health, environment, property value, business impacts, etc.) Please rank them in order of importance.
8. How would you characterize the residential or business community's concerns regarding the investigation?

Community Involvement

9. Who would you contact if you had a question about the investigation and cleanup activities?
10. Are you familiar with the agencies and the responsible parties involved in the environmental work at Montrose/Del Amo Sites?
11. Have these officials or agencies been responsive to your concern?

12. Have you had any contact with the EPA, local, state or other officials about the investigation and cleanup at these sites?
 - a. If yes, what was the nature of this contact?
 - b. If yes, what kind of response did you receive?
13. Can you suggest ways the EPA can improve its communication program with the community?

Communication

14. Have you ever received a flier/fact sheet in the mail or received a fact sheet or flyer by some method other than U.S. mail?
15. Are you interested in receiving more information about cleanup activities in this site?
 - a. What topics?
 - b. How often?
 - c. Can we add your name to our mailing list?
16. Did you know that EPA has set up information repositories at the Carson Public Library and the Torrance (Katy Geissert Civic Center) Library?
 - a. Have you visited a repository for information on the investigation and cleanup?
 - b. Are these locations convenient?

Meetings

17. Can you suggest a convenient time and day for future community meetings / open house?

Language Translation

18. Are you aware of any language translation or interpretation needs in this community?
 - If yes, which language(s)?

Media Coverage and Usage

19. What media (newspaper, radio, T.V., Internet) do you rely on most to get local information?
 - Do you use the Internet?
 - Are you aware of EPA's Web page that contains Del Amo and Montrose Site information?

Wrap Up

Do you know anyone else that you think we should interview?