From: Sanchez, Yolanda
Sent: Friday, December 02, 2016 3:38 PM

Subject: Del Amo and Montrose Superfund Sites updates – Materials from the Community "Open House" event on Nov 9th, forthcoming anti-degradation policy analysis, DNAPL pilot project, and more...

This message is being sent bcc to over 200 email addresses to prevent reply-all and protect the privacy of individuals.

The Del Amo and Montrose Superfund sites team has updates to share with you.

Updates on Community Involvement

- **EPA held a Community "Open House" Event on Wednesday, November 9th in Torrance, CA** (handouts available here). This informal event was organized as multiple "booths" or "poster sessions" to allow people to learn about all aspects of the Superfund sites at their own pace. This structure also allows people to have one-on-one conversations with EPA Remedial Project Managers (RPMs) about the cleanup work. About 27 people attended the event: 13 participants were neighbors who live or work near the Superfund sites; 6 participants represented state or local government agencies (interested stakeholders), and other participants represented contractors, responsible parties, or other organizations.

  EPA had a variety of updates for the Del Amo & Montrose Superfund Sites. The websites also have been updated to include the handouts as well as the comprehensive "Montrose and Del Amo Superfund Site Updates Fact Sheet" which we mailed in late October to a large distribution list of over 8,000 addresses.

  The site team hopes to host the next event in late Spring 2017. Please contact Yolanda Sanchez, the Community Involvement Coordinator, if you have suggestions regarding this event: 415-972-3880 or sanchez.yolanda@epa.gov.



- **EPA participated in the LA County Household Hazardous Waste (HHW) and E-collection Event on October 15th in Carson, CA.** EPA handed out the Del Amo/Montrose by Operable Unit brochure to nearly 300 households who participated in the event from Torrance, Gardena, Carson, and the surrounding areas. For more information about the event, see the LA County HHW and E-collection Event website.

- **Updated information repository at the Carson Public Library.** EPA has worked with the librarians to create a display of information for the Del Amo and Montrose Superfund sites at the Carson Public Library located at 151 East Carson Street in Carson, CA 90745. This display includes the 2016 fact sheets and three binders of information on the vapor intrusion investigation, activities on the ECI property, and the DNAPL Proposed Plan.

Updates on Site Activities

Del Amo Superfund Site

- **Vapor intrusion investigation on two commercial properties on the former Del Amo property** (Del Amo OU1 – Soils and NAPL). In early 2017, under EPA oversight, Shell will perform a vapor intrusion investigation at two commercial properties in the footprint of the former Del Amo facility. Shell will also begin cleanup work, outlined in the consent decree and statement of work, that will prevent surface exposure of industrial chemicals and reduce sources of groundwater contamination from across the 280-acre site. Additionally, as follow-up to the Del Amo Five-Year Review, EPA is working with Shell to evaluate historical vapor intrusion data on the former Del Amo property to assess the potential for vapor intrusion at other buildings.

- **EPA is evaluating the emissions for the current clean-up system at the Waste Pits** (Del Amo OU2 – Waste Pits Area). As a follow-up from the Del Amo Five-Year Review (FYR), EPA is reviewing the allowable emission standards for carcinogenic air pollutants currently emitted from the cleanup system at the Waste Pits area. The cleanup system includes a soil vapor extraction and in-situ bioventing (SVE/IBT) system and a multi-layer impermeable cap.

Del Amo and Montrose Superfund Sites

- **Soil-gas investigation focused EPA efforts on commercial property and nearby homes** (Del Amo/Montrose OU3). Over the summer, EPA completed the field work for the soil-gas investigation in the neighborhood south of the former Del Amo facility and south of the former Montrose plant property. Most notably, EPA found a thick clay layer in the soil below the neighborhood east of Normandie that appears to act as a barrier and helps to protect the residential area south of the former Del Amo facility from vapor intrusion. Additionally, in all residential areas, the soil-gas investigation did not present chemicals in patterns that suggest a vapor intrusion pathway. However, EPA found higher levels of tetrachloroethene (commonly known as PCE) in the soil gas in a small industrial area west of Normandie and south of the former Montrose property and the JCI Jones Chemical Industry. EPA is ensuring that responsible parties will conduct additional necessary action to protect public health, such as additional monitoring of the dual site groundwater contamination, improving monitoring wells from the Del Amo Waste Pits, and controlling PCE soil gas migrating from the Jones Chemical Industry property. Additionally, EPA is performing additional soil gas sampling and indoor air sampling at targeted households nearby and the neighborhood Boys & Girls Club. Click here for a copy of the summary soil-gas data. If you would like additional data on this investigation, please contact us.

Drilling Activities for the Soil Gas Investigation

Vapor intrusion is a process where underground contaminants move (or evaporate) into indoor air through cracks and other openings in the foundation slabs of a building. EPA published a fact sheet on the Indoor Air Sampling Results in April 2016.

- **Future public review period on the Anti-Degradation Policy Analysis (ADPA) for the Groundwater Treatment System** (Dual Site Groundwater OU3). EPA continues to work toward starting the groundwater extraction and treatment system for the Dual Site Groundwater Operable Unit 3. Under EPA oversight, Montrose continues to conduct additional tests of the groundwater system and make modifications to enhance performance and to certify that the construction of the groundwater treatment system is completed as designed. Soon, EPA expects to publish a draft anti-degradation policy analysis (ADPA). The ADPA is 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. This ADPA will have a public review period. EPA will send out a notification to nearby residents and interested stakeholders to let folks know about the open public review period, the draft documents uploaded to the websites, and the date of an EPA-hosted event to explain the findings of the ADPA and answer questions.

Montrose Superfund Site

- **DDT-impacted soil consolidation activity on the former Montrose plant property** (Montrose OU1 - Soils). Neighbors might have noticed some work over the past few weeks on the former Montrose plant property located at 20201 Normandie Avenue. Starting November 16th, under EPA oversight, Montrose relocated the DDT-impacted soil about 200 feet was and placed the soil under a new low-permeability asphalt cover. This soil had been recently excavated for the groundwater treatment plant construction (pipeline, utility corridor, facility footprint, etc.). The work was temporary. This soil will be evaluated along with other on-property soil as part of the future response actions for OU1. If you would like a copy of the soil relocation work plan, please contact us.

- **Pilot study and future record of decision (ROD) for non-aqueous phase liquid (DNAPL)** (Montrose OU3D - DNAPL). Listening to community concerns, EPA is working with Montrose on a pilot study of the electrical resistance heating (ERH) cleanup technology. This pilot study will help EPA verify that this thermal remedy will not create any threats to the nearby community. In 2017, EPA plans to finalize the DNAPL cleanup decision document (or record of decision (ROD)), as a follow-up to the DNAPL Proposed Plan. The ROD takes into account extensive site investigations about the extent of contamination, evaluations of the cleanup alternatives, and feedback from the community and regulatory agencies. Over the past three years, EPA has obtained feedback from the public and regulatory agencies during the review of DNAPL cleanup options. EPA is working with Montrose Chemical Corporation to implement a pilot study on the electrical resistance heating (ERH) technology.

- **EPA will be the lead agency on any further excavation activity at ECI** (Montrose OU6 – Historical Stormwater Pathway). 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. On November 7th, EPA sent a letter to ECI and the Warmington Residential to clarify that EPA is currently and will continue to be the lead agency for oversight of work at the ECI property. EPA will continue to work with ECI on a timeline for the remaining excavation work included in the work plan; however, EPA has been waiting to hear from ECI on their plans to move forward. If you would like a copy of the ECI soil removal and excavation work plan, please contact us.

- **EPA is working with JCI Jones Chemical Inc. to identify PCE migrating from their property** (Montrose OU7 – Jones Chemical). In October, EPA met with JCI Jones Chemical Inc. to discuss higher levels of the chemical tetrachloroethene (commonly known as PCE) that we found in the recent soil-gas investigation. On November 16, 2016, EPA issued a letter to JCI requiring them to update their Remedial Investigation Work Plan to address EPA's new findings on PCE and provide a new schedule for completing the remaining remedial investigation tasks. In addition, EPA is adding the work of monitoring PCE in soil gas and groundwater to their work required under the 2008 Administrative Settlement Agreement and Order on Consent (AOC). If you would like a copy of this November 16th letter, please contact us.

Please let me know if you have any questions or concerns regarding either Superfund site or request more information regarding the work.

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