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DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL ASSESSMENT

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Dresser, LLC Facility AI# 2920
8011 Shreveport Highway, Pineville, LA
Groundwater Remediation Project

The Louisiana Department of Environmental Quality (LDEQ) regrets the public meeting of March 26 had to be postponed due to current COVID-19 public health issues and the Governor's limitations on meetings. We hope to reschedule the public meeting at a later date.

In the interim, we are providing you with this fact sheet which outlines and describes the issues and measures being taken in the Aurora Park, Timber Trails, Fairway East, and Greystone subdivisions and nearby areas. Additional information can be obtained using LDEQ's Electronic Data Management System (EDMS) https://www.deq.louisiana.gov/page/edms Agency Interest Number 2920.

If you have any questions, please contact Paula Sen (318-676-7521) or Carey Dicharry (225-219-3609) of LDEQ.

Project Background

- The Dresser, LLC facility manufactured and repaired pressure relief valves from 1961 to 2016. The former manufacturing process involved the use of chlorinated solvents, including trichloroethylene (TCE).
- In 2012, LDEQ was notified of a release at the Dresser, LLC facility. Later testing discovered chlorinated solvents. Under the direction and oversight of LDEQ, a soil and groundwater investigation was initiated to determine the extent of the chlorinated solvents in the subsurface. Onsite groundwater remediation was initiated to address the release. The groundwater remediation system currently consists of 11 in-situ chemical oxidation wells. There are also seven soil vapor extraction wells for use in a Soil Vapor Extraction System.
- Initially, the investigation showed chlorinated solvents were present in the soils and shallow groundwater at 14 to 47 feet below ground surface at the facility. A more recent groundwater investigation indicates that groundwater containing chlorinated solvents has migrated beyond the facility boundaries into areas east, north and south of the facility.
- TCE and other chlorinated solvents in groundwater form vapors that travel through the soils. These vapors may migrate through small openings in the foundation (e.g., seams, cracks, openings around piping, etc.) of a home and accumulate in the indoor air. This process is referred to as vapor intrusion.

Groundwater Investigation

- The goal of the groundwater investigation is to determine the area of groundwater that contains chlorinated solvents.
- To achieve this goal, groundwater sampling locations are selected by "stepping out" from areas where chlorinated solvents are known to be present into areas of unknown groundwater quality. This process is repeated until unaffected groundwater is located in each direction.
- When unaffected groundwater is found in each direction sampled, then the extent/location of the chlorinated solvents in groundwater has been determined.
- Groundwater samples are collected from permanent monitoring wells, temporary monitoring wells and/or by hydropunch (a sampling device that allows quicker sampling of shallow groundwater).
- As of March 20, 2020, 80 monitoring wells and 23 hydropunch sampling locations have been installed.
- Drinking water for the area is safe.

Soil Vapor Investigation

- The goal of the soil vapor investigation is to determine the presence of chlorinated solvent vapors underground. The presence of chlorinated solvent vapors in the subsurface is dependent on many different factors and can change over time.
- The presence of chlorinated solvent vapor in the soil is measured using vapor monitoring points. When water is present in the soil where the vapor monitoring point is located, soil vapor cannot be measured.
- Soil gas vapor readings are used to identify locations where indoor air sampling may need to be conducted.
- As of March 20, 2020, 111 vapor monitoring points have been installed.

Indoor Air Sampling

- Indoor air is being sampled in homes adjacent to the Dresser facility.
- The goal of the sampling is to determine if the levels of chlorinated solvent vapors in indoor air require action to protect human health.
- If the vapor levels in indoor air exceed the guidelines provided by the Louisiana Department of Health (LDH) in coordination with the Agency for Toxic Substances and Disease Registry, Dresser, LLC is offering to assist the residents to address the concern. Questions about health concerns can be directed to LDH's Section of Epidemiology and Toxicology at 1-888-293-7020.
- As of March 20, 2020, indoor air has been sampled in 43 homes.

Groundwater Remediation

- Groundwater remediation is ongoing at the facility.
- Two technologies have been approved by LDEQ to clean up the chlorinated solvents. One is the injection of chemicals into the groundwater to cause the chlorinated solvents to breakdown into nontoxic compounds, and this is currently ongoing. The other technology, Soil Vapor Extraction,

removes vapors from ground to prevent them from migrating offsite, and this system will be installed in April 2020.

- Once the groundwater investigation is completed, the feasibility evaluation of groundwater remediation at offsite locations can be undertaken.
- It can be expected that groundwater remediation will continue over an extended period of time (years). Groundwater remediation will continue until the chlorinated solvent levels in groundwater reach or are below the LDEQ standards and no longer provide a viable source of vapor intrusion.

LDEQ's Role in the Investigation and Remediation Process

- The investigation and remediation of a chemical release to the environment, as well as the associated costs, are the responsibility of the companies responsible for the release.
- The companies responsible for the chemical release hire environmental consultants to conduct the investigation and remediation of the release.
- The work performed by the consultants is under the direction and oversight of the LDEQ. A plan is submitted by the consultant to LDEQ for approval before the investigation begins. LDEQ staff oversee work performed by the consultants in the field. LDEQ staff review all data generated during the investigation and all work, findings, and path forward must be approved by the department.
- The LDEQ team leader for the Dresser facility project is Paula Sen, geologist (318-676-7521). Her work is overseen by her manager, Carey Dicharry, geology manager (225-219-3609). Additional LDEQ staff are involved in reviewing data and other technical information generated by the investigation.