



Approximate size of the Amount of chromium contamination in 0 hexavalent chromium plume. Los Alamos County drinking water wells. Depth to the regional aquifer. 5 miles Number of monitoring, extraction and injection wells installed in and ~500 feet

Distance (as measured at the surface) of the plume from the Rio Grande.

Approximate distance plume moved away from LANL's boundary with Pueblo de San Ildefonso.

Chromium Plume Draft #11 23 08 29



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around the plume.

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# CHROMIUM INTERIM MEASURES AT A GLANCE

Interim Measures are used to reduce or prevent migration of site-related contaminants which, have or may result in an unacceptable human or environmental receptor risk while long-term corrective action remedies are evaluated and implemented. In the case of the hexavalent chromium plume, the chromium interim measures combine extraction of contaminated groundwater, above-ground treatment, and injection of treated water to control plume migration, reduce the size of the plume and hold it within the LANL boundary.

### WHY IT'S NEEDED

The chromium interim measures approved by NMED are being conducted to mitigate plume growth and reduce the size of the plume.

#### **HOW IT WORKS**

Contaminated water is pumped to a central treatment facility via underground piping, treated using ion exchange and then injected along the downgradient edge of the plume. This recirculation approach has been successful in controlling plume migration.

### WHAT'S NEXT

Technical data and analysis shows the chromium interim measures have been successful in controlling plume migration. Long-term corrective action remedies are being evaluated while additional wells are in the planning and permitting process to further define the plume.



# **FINAL REMEDY**

The chromium interim measures have demonstrated success in controlling potential plume migration. The chromium IM methodology is expected to be integrated into the final remediation remedy, which will be determined by NMED and requires public input.

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