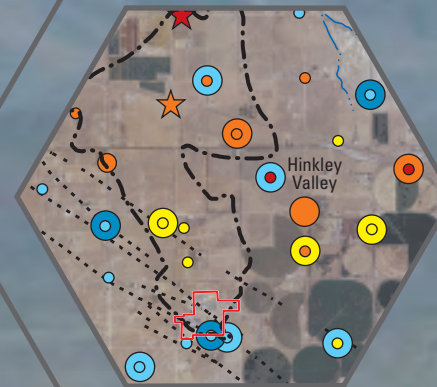
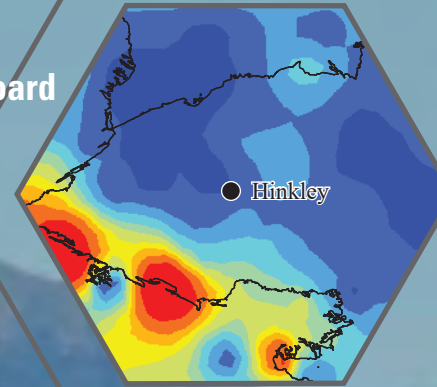


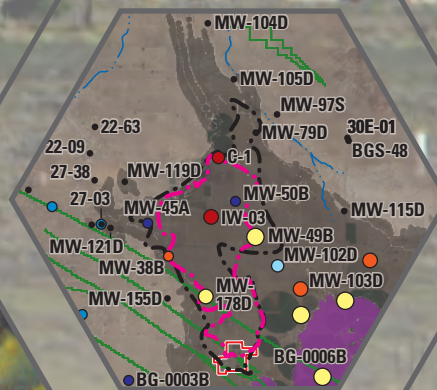
Prepared in cooperation with Lahontan Regional Water Quality Control Board

# Natural and Anthropogenic (Human-Made) Hexavalent Chromium, Cr(VI), in Groundwater near a Mapped Plume, Hinkley, California



Professional Paper 1885

U.S. Department of the Interior  
U.S. Geological Survey



**Front cover**

Backscatter scanning  
electron micrograph

Chromium concentrations  
in soil near Hinkley,  
California.

Background: Pacific Gas and Electric Company  
(PG&E) compressor station, Hinkley, California,  
March 2009. Photograph by Steven Perry,  
ARCADIS, Inc., courtesy of PG&E.

Specific conductance in water  
from selected wells

Sites and simulated particles  
representing water recharged from  
the Mojave River.

Actinolite thin  
section from site  
BG-0005

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## U.S. Geological Survey, Reston, Virginia: 2023

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Groover, K.D., and Izbicki, J.A., 2018, Field portable X-ray fluorescence and associated quality control data for the western Mojave Desert, San Bernardino County, California: U.S. Geological Survey data release, <https://doi.org/10.5066/P9CU0EH3>.

Groover, K.D., Izbicki, J.A., Larsen, J.D., Dick, M.C., Nawikas, J., and Kohel, C.A., 2021, Hydrologic data in Hinkley and Water Valleys, San Bernardino County, California, 2015–2018: U.S. Geological Survey data release, <https://doi.org/10.5066/P9BUXAX1>.

Miller, L.G., Bobb, C., Bennett, S., and Baesman, S.M., 2020, Aqueous and solid phase chemistry of sequestration and re-oxidation of chromium in experimental microcosms with sand and sediment from Hinkley, CA: U.S. Geological Survey data release, <https://doi.org/10.5066/P9U8C82V>.

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## Chapters

Each chapter is presented in a separate PDF document linked below.

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By John A. Izbicki and Krishangi D. Groover
- C. Chromium in Minerals and Selected Aquifer Materials  
By Krishangi D. Groover, John A. Izbicki, William Benzel, Jean Morrison, and Andrea L. Foster
- D. Analyses of Regulatory Water-Quality Data  
By John A. Izbicki and Whitney A. Seymour
- E. Groundwater Chemistry and Hexavalent Chromium  
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