





LEGEND:

- Groundwater Monitoring Well
- Agricultural Supply Well
- Domestic Supply Well
- Other Supply Well
- Groundwater Extraction Well (Active)
- Multistage Test Well, or Inactive
- Extraction/Injection Well
- Freshwater Injection Well
- PG&E-Owned Property
- PG&E Compressor Station
- County Parcel
- Transmission Line
- Approximate Location of Balanced Alluvium Upper Aquifer
- Approximate Location of Lockhart Fault
- Fault Trace is Intermittent, and There is No Surface Expression (Stametz et al., 2011)
- Bedrock Exposed at Ground Surface

Abbreviations:

- µg/L: micrograms per liter
- Cr(VI): hexavalent chromium
- Cr(T): total dissolved chromium
- RZ: in Situ Reactive Zone
- ND: not detected
- NS: not sampled

Groundwater Cr(VI) concentrations in monitoring wells:

- More than 1,000 µg/L
- 100 to 1,000 µg/L
- 50 to 100 µg/L
- 10 to 50 µg/L
- 3.1 to 10 µg/L
- Less than 3.1 µg/L or ND

NOTES:

- Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells sampled in the Fourth Quarter (October through December) 2015 monitoring period. For wells sampled multiple times during the reporting period, the most recent results are shown.
- The concentration contours are based on Fourth Quarter 2015 chromium results for the groundwater monitoring and extraction wells that are completed in the shallow zone and deep zone of the Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells (brown-colored labels) were not used for chromium plume contouring except for those in the northern area.
- Pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015.
- Pursuant to the Lahontan Regional Water Quality Control Board's letter Review of Chromium Plume Maps, Third Quarter 2013 Groundwater Monitoring Report and Agreement with Northern Investigation Concept dated December 12, 2013, groundwater monitoring wells are not used for chromium contouring if they are located in the areas southwest of the Lockhart Fault and on or east of Dixie Road.
- Chromium plume contours for concentrations of 10, 50 and 1000 µg/L south of Highway 58 were developed using the more robust dataset contained in the January 15, 2016 Fourth Quarter 2015 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Acacias 2016) and represent a composite of the shallow and deep zone contours presented therein. Select wells from that program are shown here for reference.

WORKS CITED:

Stametz, C.L., P. Martin, T. Nishikawa, and B.F. Cox. 2001. Simulation of Ground-Water Flow in the Mojave River Basin, California. U.S. Geological Survey Water-Resources Investigations Report 01-4002, Version 3. Prepared in cooperation with the Mojave Water Agency.

FIGURE 5-5
CHROMIUM RESULTS FOR FOURTH QUARTER 2015
GROUNDWATER MONITORING AND
DOMESTIC WELL SAMPLING AND MAXIMUM
COMPOSITE PLUME OUTLINE IN UPPER AQUIFER

FOURTH QUARTER 2015 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS SITE-WIDE GROUNDWATER MONITORING PROGRAM

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