

- LEGEND:**
- Groundwater Monitoring Well
  - Agricultural Supply Well
  - ⊕ Domestic Supply Well
  - Other Supply Well
  - ⊠ Groundwater Extraction Well (Active)
  - ⊞ Multiuse Test Well, or Inactive Extraction/Injection Well
  - ⊕ Freshwater Injection Well
  - PG&E-Owned Property
  - PG&E Compressor Station
  - County Parcel
  - - - Approximate Limit of Saturated Alluvium Upper Aquifer
  - - - Approximate Location of Lockhart Fault
  - ⋯ Fault Trace is Inferred, and There is No Surface Expression (Stamos et al. 2001)
  - ⊞ Bedrock Exposed at Ground Surface

MW-77S Well ID  
0.88/ND Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Third Quarter 2016 sampling.

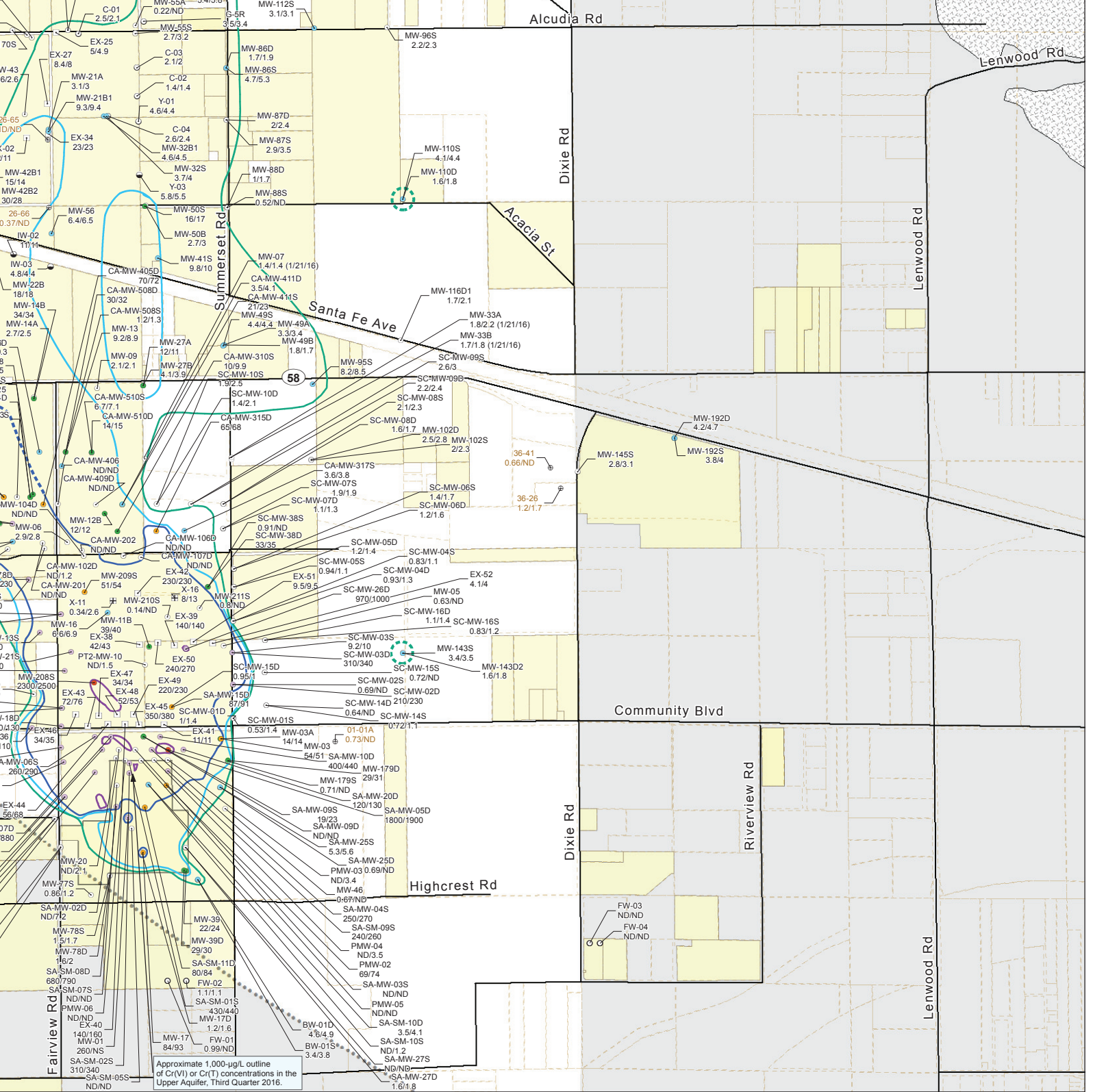
**ABBREVIATIONS:**  
 µg/L Micrograms per Liter  
 Cr(VI) Hexavalent Chromium  
 Cr(T) Total Dissolved Chromium  
 IRZ In Situ Reactive Zone  
 ND Not Detected  
 NS Not Sampled

**Groundwater Cr(VI) concentrations in monitoring wells:**

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

- NOTES:**
- Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells during the reporting period, the most recent results are shown.
  - The concentration contours are based on Third Quarter 2016 chromium results for the groundwater Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells (brown-colored labels) pursuant to the Lahonton Regional Water Quality Control Board's Cleanup and Abatement Order.
  - Pursuant to the Lahonton Regional Water Quality Control Board's Cleanup and Abatement Order if they are located in the areas southwest of the Lockhart Fault and on or east of Dixie Road. More United States Geological Survey background chromium investigations.
  - Chromium plume contours in the general area south of Highway 58, were developed using a large scale In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2016). Select wells were sampled during the Third Quarter 2016 sampling.
  - Chromium contours were changed on the eastern side of the plume during the Third Quarter 2016 sampling and professional judgement. These changes to the plume contours on the eastern side of the plume were made to better represent the current plume location.

**WORK CITED:**  
 Stamos, C.L., P. Martin, T. Nishikawa, and B.F. Cox. 2001. *Simulation of Ground-Water Flow in the Upper Aquifer*. Prepared in cooperation with the Mojave Water Agency.



sampled in the Third Quarter (July through September) 2016 monitoring period. For wells sampled multiple times during the monitoring period, the highest value is reported. Wells that were not sampled during the monitoring period are indicated by a dashed line. Monitoring wells that were not used for chromium plume contouring, except for those in the northern disputed plume areas, are indicated by a dashed line. Data for wells sampled southwest of Lockhart Fault and east of Dixie Road were sampled in support of the monitoring program on November 4, 2015.

Monitoring wells sampled southwest of Lockhart Fault and east of Dixie Road were sampled in support of the monitoring program on November 4, 2015. Groundwater monitoring wells are not used for chromium contouring in the upper aquifer. Monitoring wells sampled southwest of Lockhart Fault and east of Dixie Road were sampled in support of the monitoring program on November 4, 2015.

The monitoring data set for the October 28, 2016 Third Quarter 2016 Monitoring Report for the Hinkley Compressor Station is presented here for reference. The monitoring data set for the October 28, 2016 Third Quarter 2016 Monitoring Report for the Hinkley Compressor Station is presented here for reference.

These changes were made based on discussions with the Water Board, requirements in the Hinkley Compressor Station Groundwater Monitoring Report and Domestic Well Results Site-wide Groundwater Monitoring Program. The monitoring data reflect a revised interpretation of monitoring data and do not indicate plume expansion.

Mojave River Basin, California. U.S. Geological Survey Water-Resources Investigations Report 01-4002, Version 3.

**FIGURE 5-5**  
**CHROMIUM RESULTS FOR THIRD QUARTER 2016**  
**GROUNDWATER MONITORING AND**  
**DOMESTIC WELL SAMPLING AND MAXIMUM**  
**COMPOSITE PLUME OUTLINE IN UPPER AQUIFER**  
 THIRD QUARTER 2016 GROUNDWATER MONITORING  
 REPORT AND DOMESTIC WELL RESULTS  
 SITE-WIDE GROUNDWATER MONITORING PROGRAM  
 PACIFIC GAS AND ELECTRIC COMPANY  
 HINKLEY COMPRESSOR STATION  
 HINKLEY, CALIFORNIA

