

**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 parcels
- Transmission lines
- - - 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
- ▭ Western area

MW-77S Well ID  
0.79/1.3 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Fourth Quarter 2013 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

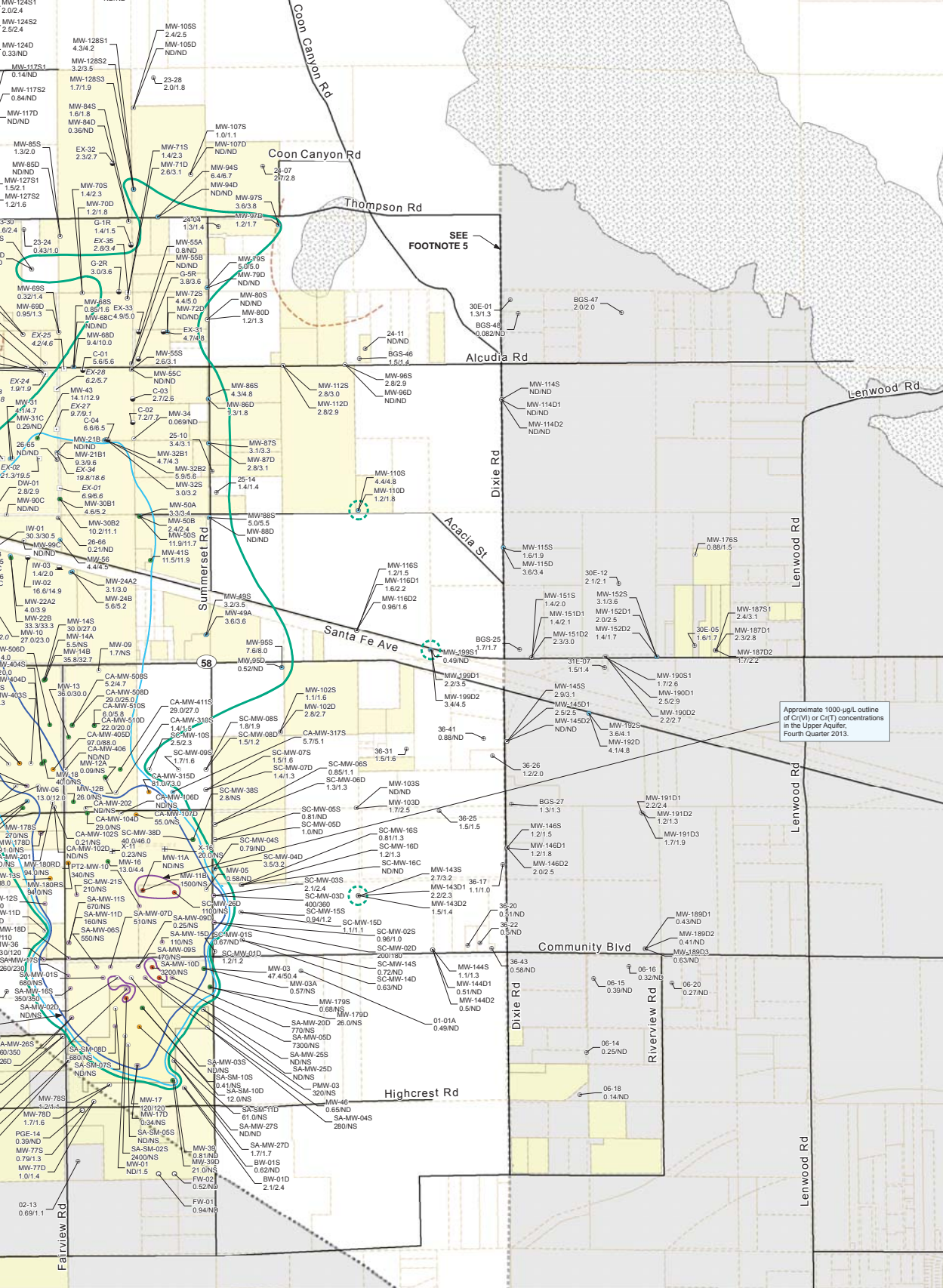
**Groundwater Cr(VI) concentrations in monitoring wells:**

- More than 1,000 µg/L
- 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 selected IRZ monitoring wells are shown to aid in plume mapping. For wells sampled monthly...
- The concentration contours are based on Fourth Quarter 2013 chromium results for the Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells and Lower Aquifer...
- Concentration contours represent the maximum extent of either Cr(VI) or Cr(T) at any depth within the 50-, 10-, and 3.1/3.2-µg/L chromium contours are less than the contoured concentration...
- An evaluation of available hydrogeologic and groundwater quality data for the shaded Western Area contains naturally occurring chromium.
- Pursuant to the Lahontan Regional Water Quality Control Board's letter Review of Chromium December 12, 2013, groundwater monitoring wells are not used for chromium contouring.

\* Monitoring well MW-154S1 is completed in low permeability sediments across the water table and may not be representative of the groundwater conditions in the Upper Aquifer as sampled.



Approximate 1000-ug/L outline of Cr(VI) or Cr(T) concentrations in the Upper Aquifer, Fourth Quarter 2013.

domestic wells sampled in the Fourth Quarter (October through December) 2013 monitoring period. Fourth Quarter 2013 results for wells sampled multiple times during the reporting period, the most recent results are shown.

For the groundwater monitoring and extraction wells that are completed in the shallow zone and deep zone of the lower Aquifer monitoring wells (brown-colored labels) were not used for chromium plume contouring.

any depth within the Upper Aquifer based on Fourth Quarter 2013 chromium results. Some chromium results for wells listed below are ND/ND.

the Western Area shown on this figure was included in the January 14, 2013, document titled *Conceptual Site Model for the Western Area Report* (CH2MHILL and Stantec, 2013). The findings of the January 14 report indicate that groundwater in the Western Area is not contaminated with chromium.

Chromium Plume Maps, *Third Quarter 2013 Groundwater Monitoring Report and Agreement with Northern Investigation Concept dated 10/1/13* (CH2MHILL and Stantec, 2013). The findings of the January 14 report indicate that groundwater in the Western Area is not contaminated with chromium.

water table. This well purges dry during sampling and is very slow to recharge. Groundwater samples from this well were not used for chromium plume contouring if they are located in the area southwest of the Lockhart Fault and on or east of Dixie Road.

**FIGURE 5-5**  
**CHROMIUM RESULTS FOR FOURTH QUARTER 2013 GROUNDWATER MONITORING AND DOMESTIC WELL SAMPLING AND COMPLIANCE MAXIMUM PLUME OUTLINE IN UPPER AQUIFER**  
 FOURTH QUARTER 2013 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS  
 SITE-WIDE GROUNDWATER MONITORING PROGRAM  
 SOUTHWESTERN GAS AND ELECTRIC COMPANY  
 HINKLEY COMPRESSOR STATION  
 HINKLEY, CALIFORNIA