The 3.1/3.2-ug/L contour is shown as "-?-?-" where inferred and cannot be fully delineated by First Quarter 2013 monitoring data. Further updates of the outline will be forthcoming as sampling results from new and future monitoring wells are incorporated.

The interpreted groundwater chromium plume outline presented for this area was prepared following the Water Board's conditioning requirements specified in the September 26, 2011 Investigative Order R6V-2011-0079. An alternative interpretation of the chromium plume outline was presented in a January 28, 2013 technical memorandum. This alternative chromium plume contouring was prepared using site-specific hydrogeologic and geochemical information collected to date. Additional time is required to analyze and discuss more recent monitoring results that will be used to guide future implementation of activities in this area.

Approximate outline of Cr(VI) or Cr(T) in the Upper Aquifer exceeding 3.1 and 3.2 ug/L, respectively, First Quarter 2013.

Approximate 10-ug/L outline of Cr(VI) or Cr(T) concentrations in the Upper Aquifer, First Quarter 2013.

Approximate 50-ug/L outline of Cr(VI) or Cr(T) concentrations in the Upper Aquifer, First Quarter 2013.

WESTERN AREA
SEE FOOTNOTE 4

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
- Step-out monitoring wells planned or under construction
- PG&E-owned property
- PG&E Compressor Station
- County parcels
- Transmission lines
- Approximate limit of saturated alluvium upper aquifer
- Bedrock exposed at ground surface
- Western area

MW-102S Well ID
0.91/1.4 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during First 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:

1. Chromium results are shown for site-wide Groundwater Monitoring Program and domestic wells sampled in the First Quarter (January through March) 2013 monitoring period. First Quarter 2013 results for selected IRZ monitoring wells are shown to aid in plume mapping. For wells sampled multiple times during the reporting period, the most recent results are shown.
2. The concentration contours are based on First Quarter 2013 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 3-2 and 3-3. Results for domestic wells and Lower Aquifer monitoring wells (brown-colored labels) were not used for chromium plume contouring.
3. Concentration contours represent the maximum extent of either Cr(VI) or Cr(T) at any depth within the Upper Aquifer based on First Quarter 2013 chromium results. Some chromium results for wells within the 50-, 10-, and 3.1/3.2-µg/L chromium contours are less than the contoured concentrations.
4. An evaluation of available hydrogeologic and groundwater quality data for the shaded Western Area shown on this figure was included in the January 14, 2013, document titled Conceptual Site Model for Groundwater Flow and the Occurrence of Chromium in Groundwater of the Western Area Report (CH2MHILL and Stantec, 2013). The findings of the January 14 report indicate that groundwater in the Western Area contains naturally occurring chromium.

* Monitoring well MW-154S1 is completed in low permeability sediments across the water table. This well purges dry during sampling and is very slow to recharge. Groundwater samples from this well may not be representative of the groundwater conditions in the Upper Aquifer as sampled in other wells in this area.

N

0 1,000 2,000
Feet

FIGURE 3-1
CHROMIUM RESULTS FOR FIRST QUARTER 2013 GROUNDWATER MONITORING AND DOMESTIC WELL SAMPLING AND INTERPRETED MAXIMUM PLUME OUTLINE IN UPPER AQUIFER
FIRST QUARTER 2013 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS
SITE-WIDE GROUNDWATER MONITORING PROGRAM
PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA

CH2MHILL

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