

Grass Hopper

Bn Ranch Rd

Halsted Rd

American Ave

Friends Rd

Sunset Rd

Plymouth Rd

Holstead Rd

Roy Rd

Holstead Rd

Fossil Bed Rd

Burnt Tree Rd

Mountain View Rd

Orchard St

Sierra Rd

Hinkley Rd

Sonoma St

Tindall Rd

The 3.1/3.2-µg/L contour is shown as "-?-?" where inferred and cannot be fully delineated by Third Quarter 2013 monitoring data.

MW-184S1
2.4/2.6
MW-184S2
3.9/4.2
MW-184S3
4.1/4.5

MW-205S1
3.7/4.0
MW-205S2
3.7/3.8
MW-205S3
3.5/3.6

MW-196S1
3.7/4.7
MW-196S2
2.9/2.9
MW-196S3
ND/ND

MW-185S1
4.9/5.6
MW-185S2
4.3/4.9
MW-185S3
3.3/3.7

MW-194S1
21.0/20.7 (6.7/6.2)*
MW-194S2
2.9/3.4*
MW-194S3
2.6/2.7

27N-02
4.1/3.8

27N-01
2.2/1.9

MW-186S1
4.5/4.8
MW-186S2
2.9/3.5
MW-186S3
3.5/4.3

MW-195S1
4.6/5.2
MW-195S2
3.0/3.5
MW-195S3
1.7/2.2

MW-188S1
7.0/7.2
MW-188S2
0.9/1.2*
MW-188S3
4.1/4.5

33N-02
3.3/3.2

MW-193S1
4.2/4.8
MW-193S2
6.2/6.5
MW-193S3
6.5/9.2

33N-01
2.5/2.5

MW-162S1
4.3/4.8
MW-162S2
4.5/1.9
MW-162S3
0.1/ND

MW-161S1
3.1/3.3
MW-161S2
2.9/2.9
MW-161S3
1.2/1.4

04N-04
2.6/2.5

MW-174S1
3.2/2.5
MW-174S2
2.0/2.3
MW-174S3
2.3/2.7

03N-01
2.7/2.6

03N-02
3.4/3.2

MW-130S1
3.4/4.0
MW-130S2
3.5/4.1

MW-131S1
2.4/2.7

10-04
0.75/1.2

MW-133S2
0.08/ND

MW-135S1
3.6/4.2
MW-135S2
2.2/2.8

MW-137S1
4.2/5.2
MW-137S2
4.2/4.9
MW-137S3
1.5/2.0

MW-139S1
5.2/5.7
MW-139S2
1.5/1.9

MW-140S
4.1/4.6
MW-140S
3.7/4.0
MW-140S
3.1/3.4

MW-142S1
5.0/5.9
MW-142S2
2.4/2.6
MW-142S3
2.9/3.1

MW-113S1
3.1/2.8
MW-113S2
2.8/3.4
MW-113D
0.4/ND

MW-111S1
2.4/3.1
MW-111S2
2.1/2.5
MW-111D
0.6/ND

MW-124
2.0/3.3
MW-13
1.7/2.3

15-15
0.86/ND

15-02
0.58/ND

MW-173S1
3.6/3.9
MW-173S2
2.9/3.0
MW-173D
0.73/1.1

15-08
10/12

15-05
1.7/2.3

MW-157S
1.7/2.3

15-06
0.85/ND

15-03
2.6/2.5

MW-124
2.0/3.3
MW-13
1.7/2.3



Mountain General Rd

Burnt Tree Rd

Coon Canyon Rd

Mountain General Rd

MW-166S1
0.31/ND
MW-166S2
0.21/ND

MW-197S1
0.09/ND
MW-197S2
ND/ND
MW-197S3
ND/ND

MW-198S1
1.2/1.4'
MW-198S2
ND/ND
MW-198S3
ND/ND
11-12
ND/ND

11-10
4.3/3.8

11-07
ND/ND

MW-140S1
1.1/4.6
MW-140S2
3.7/4.0
MW-140S3
1.1/3.4

MW-141S1
3.0/3.5
MW-141S2
3.5/3.5
MW-141D
ND/ND

MW-104S1
2.8/3.4
MW-104S2
1.1/4.6
MW-104D
ND/ND

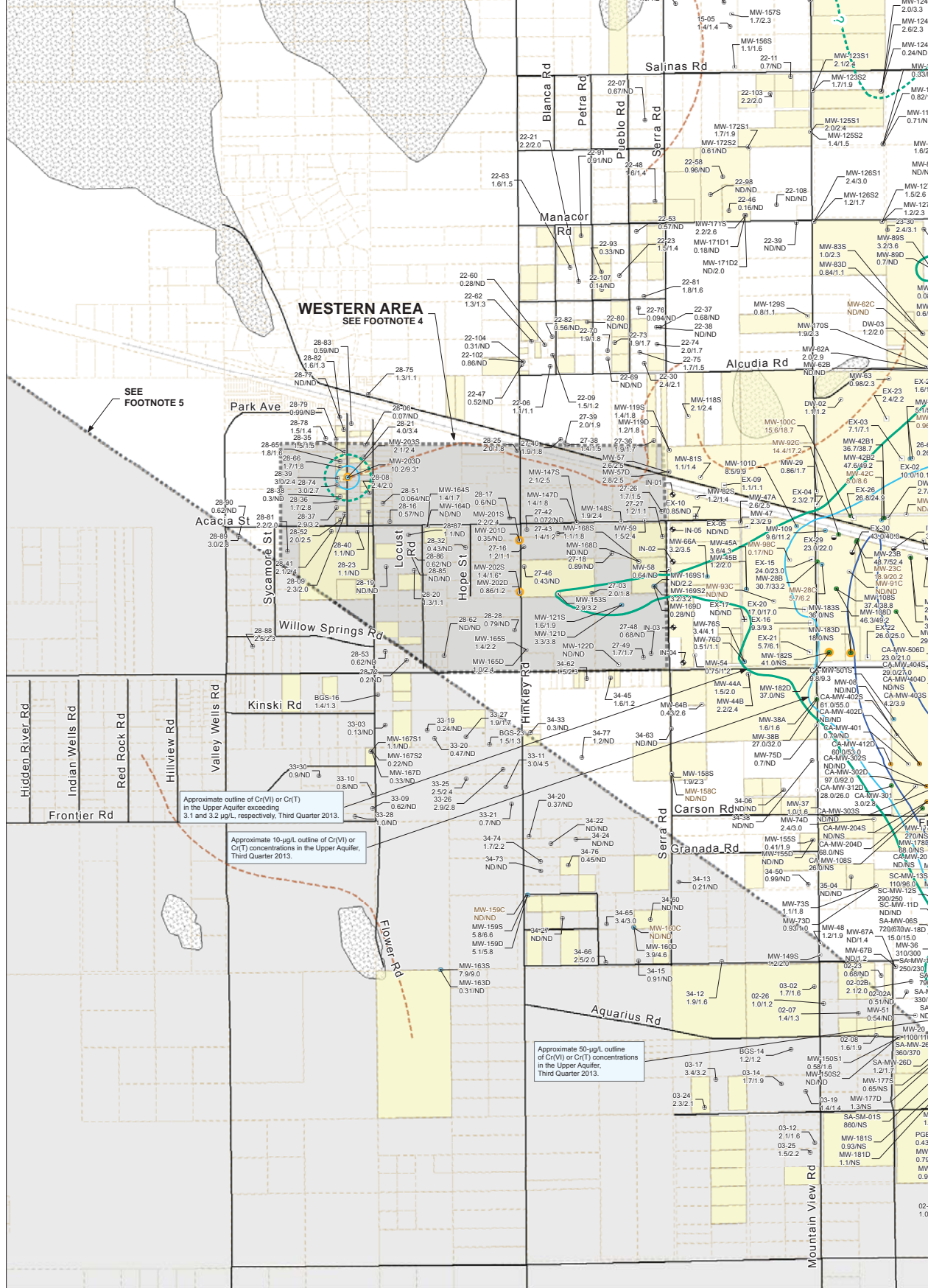
MW-106S
2.0/3.2
MW-106D
0.37/ND

MW-124S1
2.0/3.3
MW-124S2

MW-105S

COON

a St



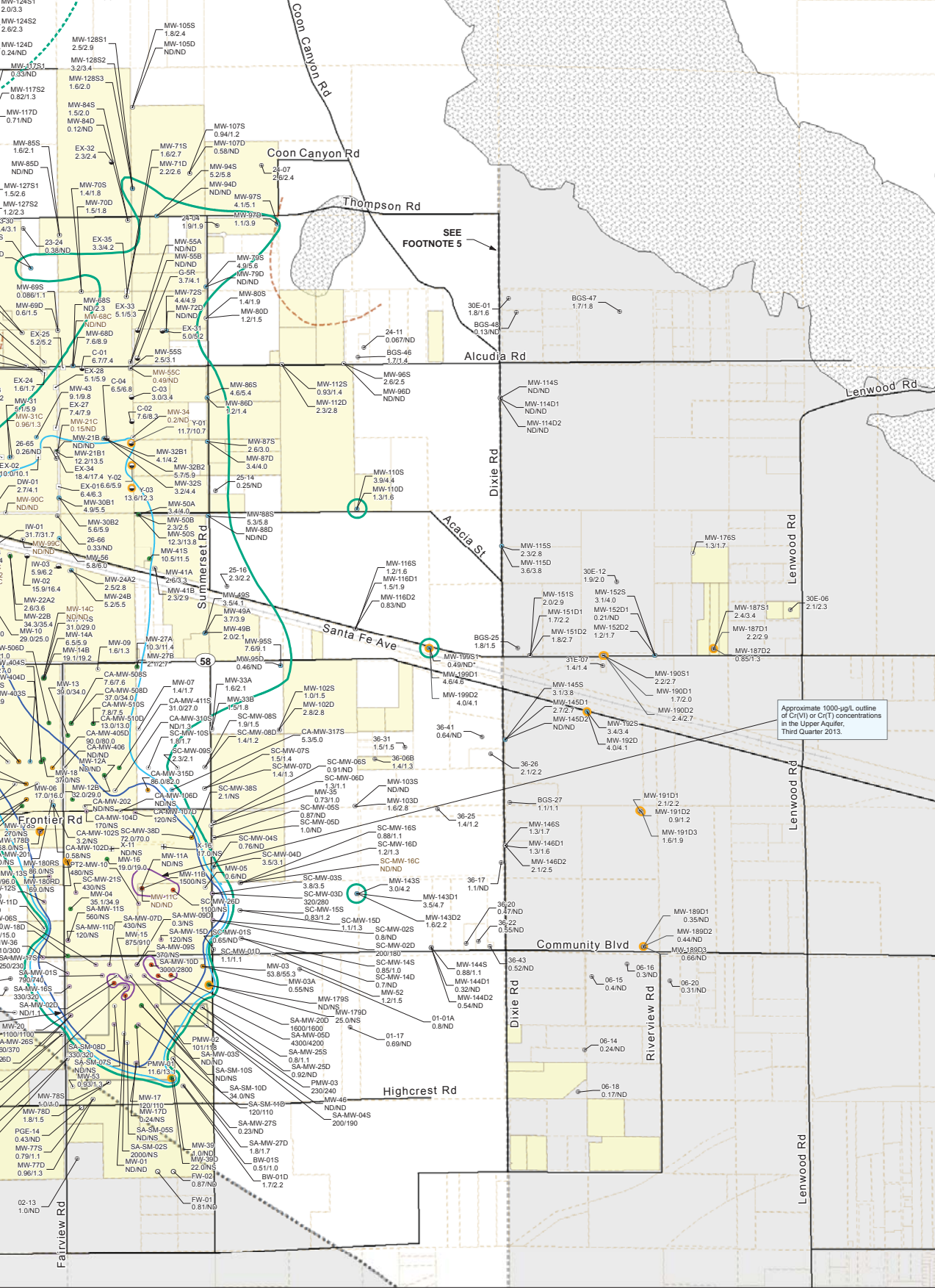
LEGEND:

- 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
- New well installed during Third Quarter 2013
- 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

MW-77S	Well ID	MW-77S	Well ID
0.88/1.1	Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Third Quarter 2013 sampling.	0.88/1.1	Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Third Quarter 2013 sampling.
ABBREVIATIONS:			
µg/L	micrograms per liter	Cr(VI)	hexavalent chromium
Cr(T)	total dissolved chromium	Cr(T)	total dissolved chromium
IRZ	In Situ Reactive Zone	IRZ	In Situ Reactive Zone
ND	not detected	ND	not detected
NS	not sampled	NS	not sampled
Groundwater Cr(VI) concentrations in monitoring wells:			
● More than 1,000 µg/L	● 10 to 50 µg/L	● 10 to 50 µg/L	● 10 to 50 µg/L
● 100 to 1,000 µg/L	● 3.1 to 10 µg/L	● 3.1 to 10 µg/L	● 3.1 to 10 µg/L
● 50 to 100 µg/L	● Less than 3.1 µg/L or ND	● Less than 3.1 µg/L or ND	● Less than 3.1 µg/L or ND

NOTES:

1. 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.
 2. The concentration contours are based on Third Quarter 2013 chromium results for the Upper Aquifer as noted on Figures 5-1 and 5-2. Results for domestic wells and Lower Aquifer are not shown.
 3. 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.
 4. An evaluation of available hydrogeologic and groundwater quality data for the shaded Western Area contains naturally occurring chromium.
 5. Pursuant to the Lahontan Regional Water Control Board's letter *Review of Chromium Plume* dated December 12, 2013, groundwater monitoring wells are not used for chromium contouring.
- * October 2013 sample result (Fourth Quarter 2013 Sampling Event). Additional results posted on the PG&E website.
- ** 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-ppg/L outline of Cr(VI) or Cr(T) concentrations in the Upper Aquifer, Third Quarter 2013.

Domestic wells sampled in the Third Quarter (July through September) 2013 monitoring period. Third Quarter 2013 results for sampled multiple times during the reporting period, the most recent results are shown.

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 Third Quarter 2013 chromium results. Some chromium results for wells ended Western Area shown on this figure was included in the January 14, 2013, document titled *Conceptual Site Model for Western Area Report* (CH2MILL and Stantec, 2013). The findings of the January 14 report indicate that groundwater in the area south of the Lockhart Fault and on or east of Dixie Road.

Results posted for MW-194S1 shown in parentheses are also from October 2013 sampling.

water table. This well purges dry during sampling and is very slow to recharge. Groundwater samples from this well sampled in other wells in this area.

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