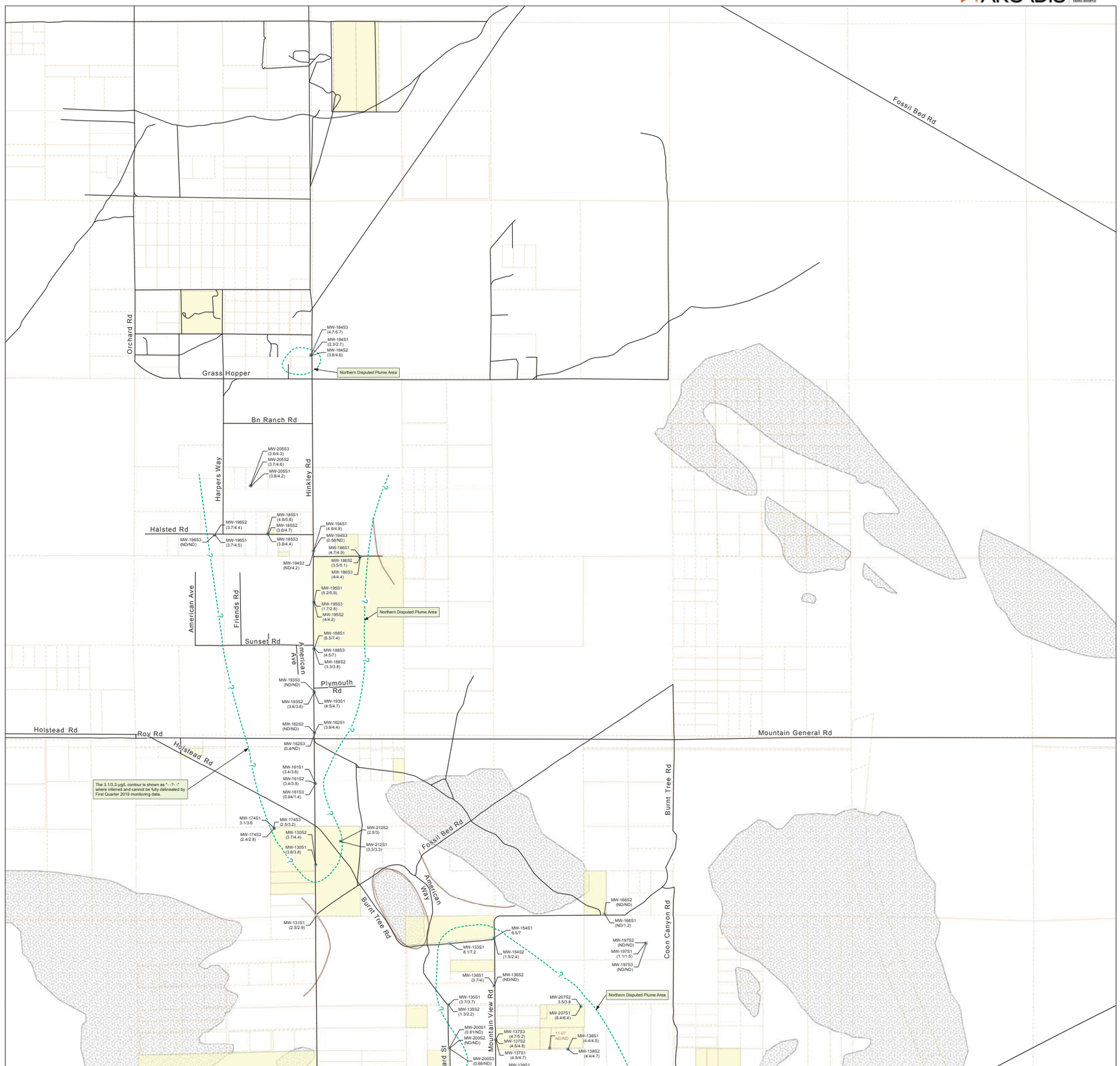
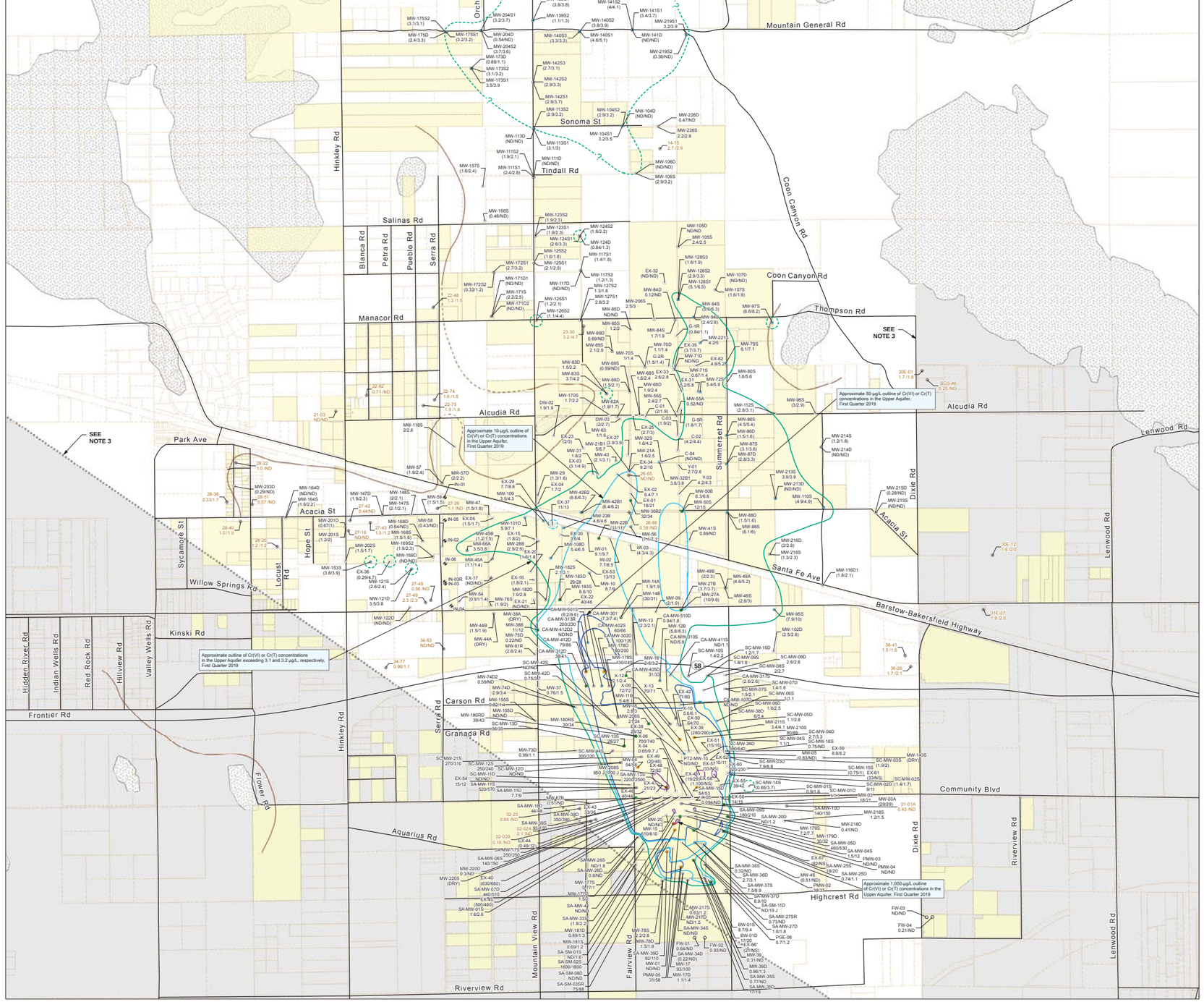
ARCADIS Design & Consultancy for natural and built assets





LEGEND:

- Monitoring Well
- Domestic Supply Well (active and inactive)
- Other Supply Well
- Groundwater Extraction Well
- Multi-use Test Well, or Inactive Extraction/Injection Well
- IRZ_INJ 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
- DRY Groundwater monitoring program well that has been dry for at least a year
- Location is Approximate, Survey Pending

SA-MW-01S Well ID
1.6/2.6 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during First Quarter 2019 sampling.
(500/480) Data in parentheses are from previous reporting period. See Table E-1 for sample dates.

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

ABBREVIATIONS:

µg/L	Micrograms per Liter
Cr(VI)	Hexavalent Chromium
Cr(T)	Total Dissolved Chromium
J	Estimated Result
ND	Not Detected
NS	Not Sampled

NOTES:

1. Chromium results are shown for Site-wide Groundwater Monitoring Program and domestic wells sampled in the First Quarter (January through March) 2019 monitoring period. For wells sampled multiple times during the reporting period, the most recent results are shown.

2. The concentration contours are based on First Quarter 2019 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 disputed plume areas, pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015).

3. Pursuant to the Lahontan Regional Water Quality Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015), 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. Monitoring wells sampled southwest of Lockhart Fault and east of Dixie Road were sampled in support of United States Geological Survey background chromium investigations.

4. Chromium plume contours in the general area south of Highway 58, were developed using a larger set of monitoring data which is presented in the First Quarter 2019 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects (Arcadis 2019). Select wells from that program are shown here for reference.

WORK CITED:

Arcadis. 2019. First Quarter 2019 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwater Injection Projects. Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California, California Regional Water Quality Control Board, Lahontan Region Order No. R6V-2008-0014 (Waste Discharge Requirements Identification No. 6B369107001). April 30.

Stamos, 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.

Water Board. 2015. Cleanup and Abatement Order No. R6V-2015-0068 Requiring Pacific Gas and Electric Company to Cleanup and Abate Waste Discharges of Total and Hexavalent Chromium to the Groundwaters of the Mojave Hydrologic Unit. November 4.

N

0 1,000 2,000 Feet

FIGURE 5-5
CHROMIUM RESULTS FOR FIRST QUARTER 2019 GROUNDWATER MONITORING AND DOMESTIC WELL SAMPLING AND MAXIMUM COMPOSITE PLUME OUTLINE IN UPPER AQUIFER

FIRST QUARTER 2019 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS
SITE-WIDE GROUNDWATER MONITORING PROGRAM

PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA

Z:\GIS\PROJECT\SI_ENV\RC000099.0001_PGE_HINKLEY\GIS\GEC\MXD\GMP\1Q19\FINAL\FIG5-5_PLUMEMAP_UA_1Q19.MXD 5/2/2019