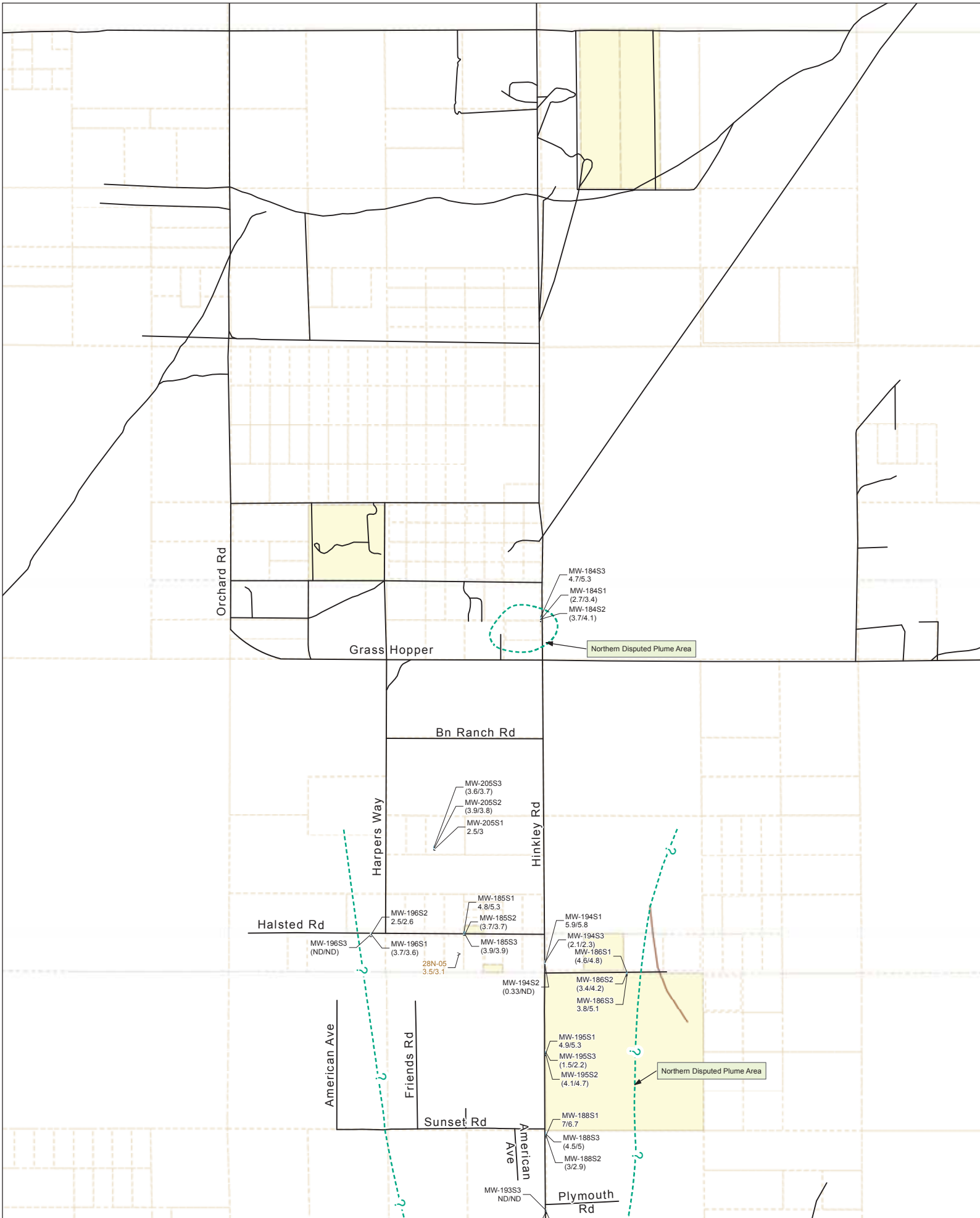
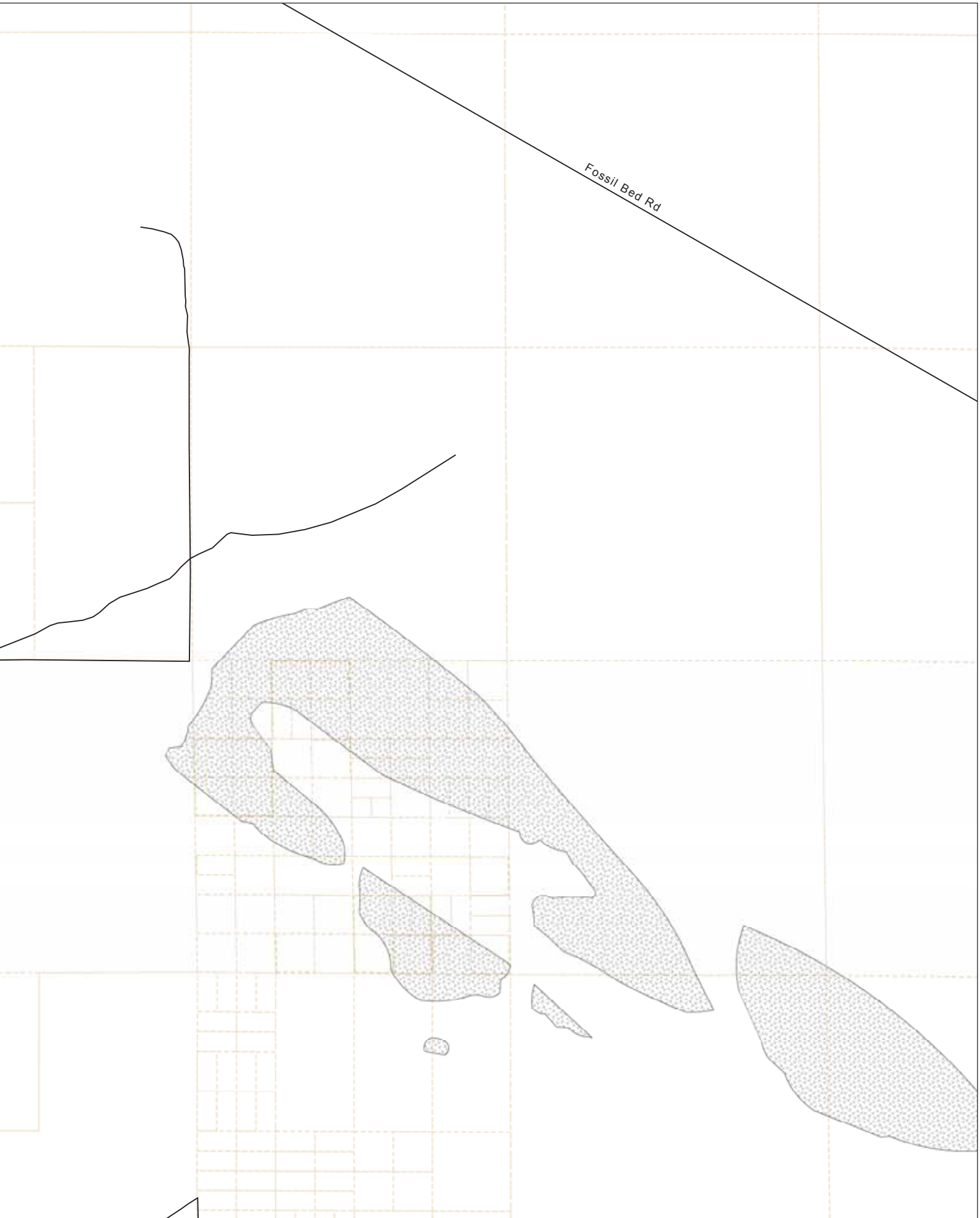
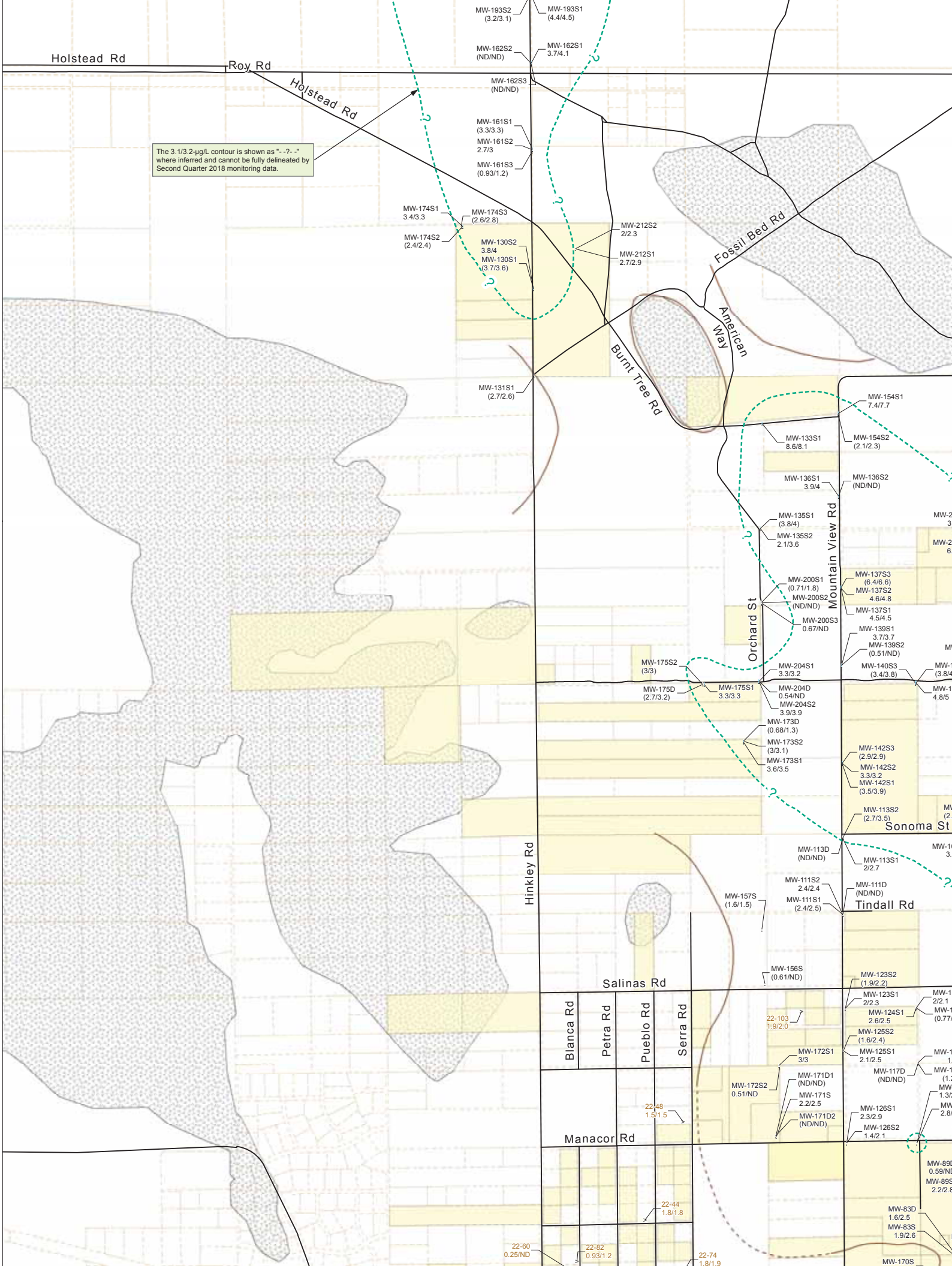
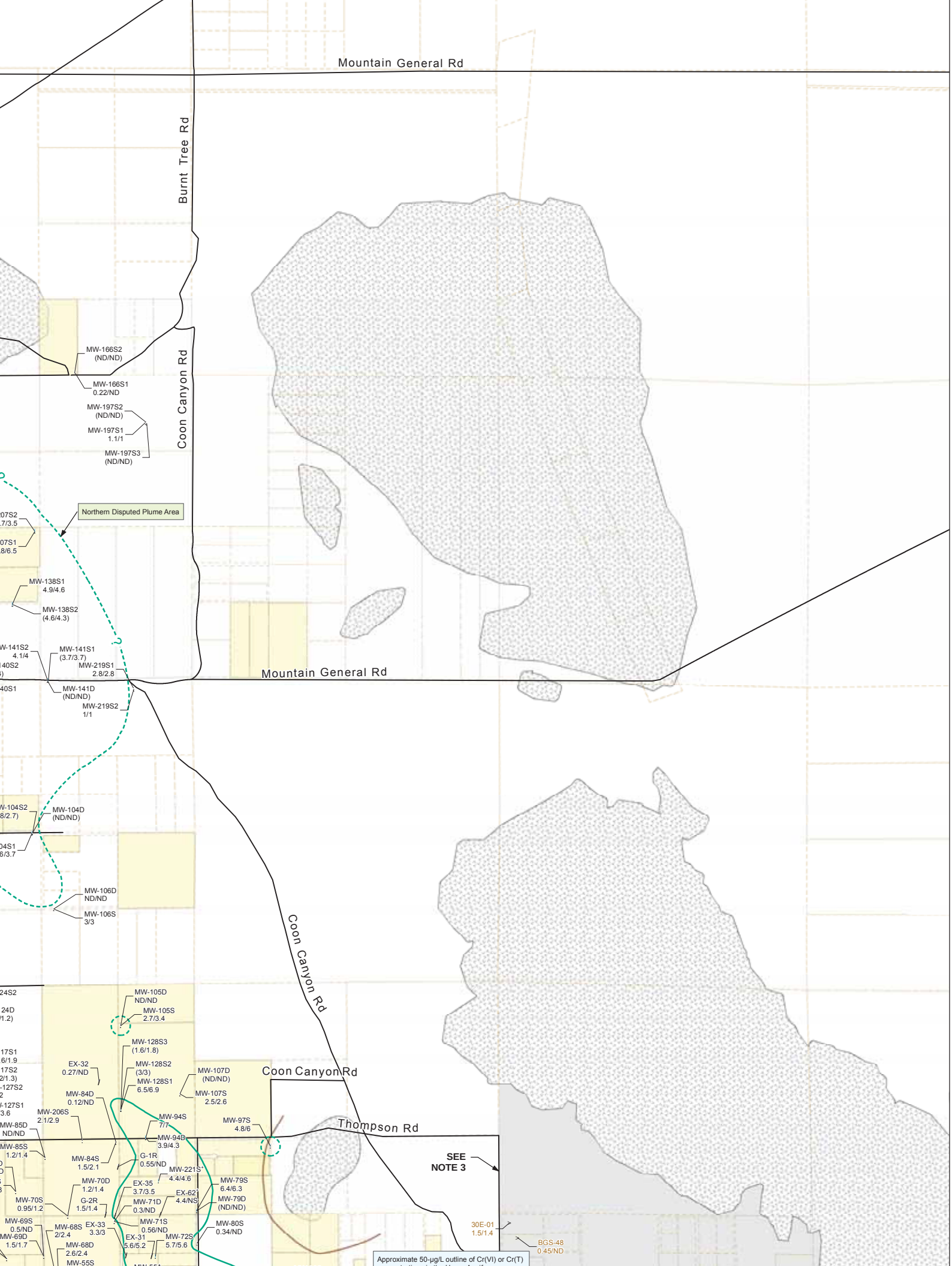
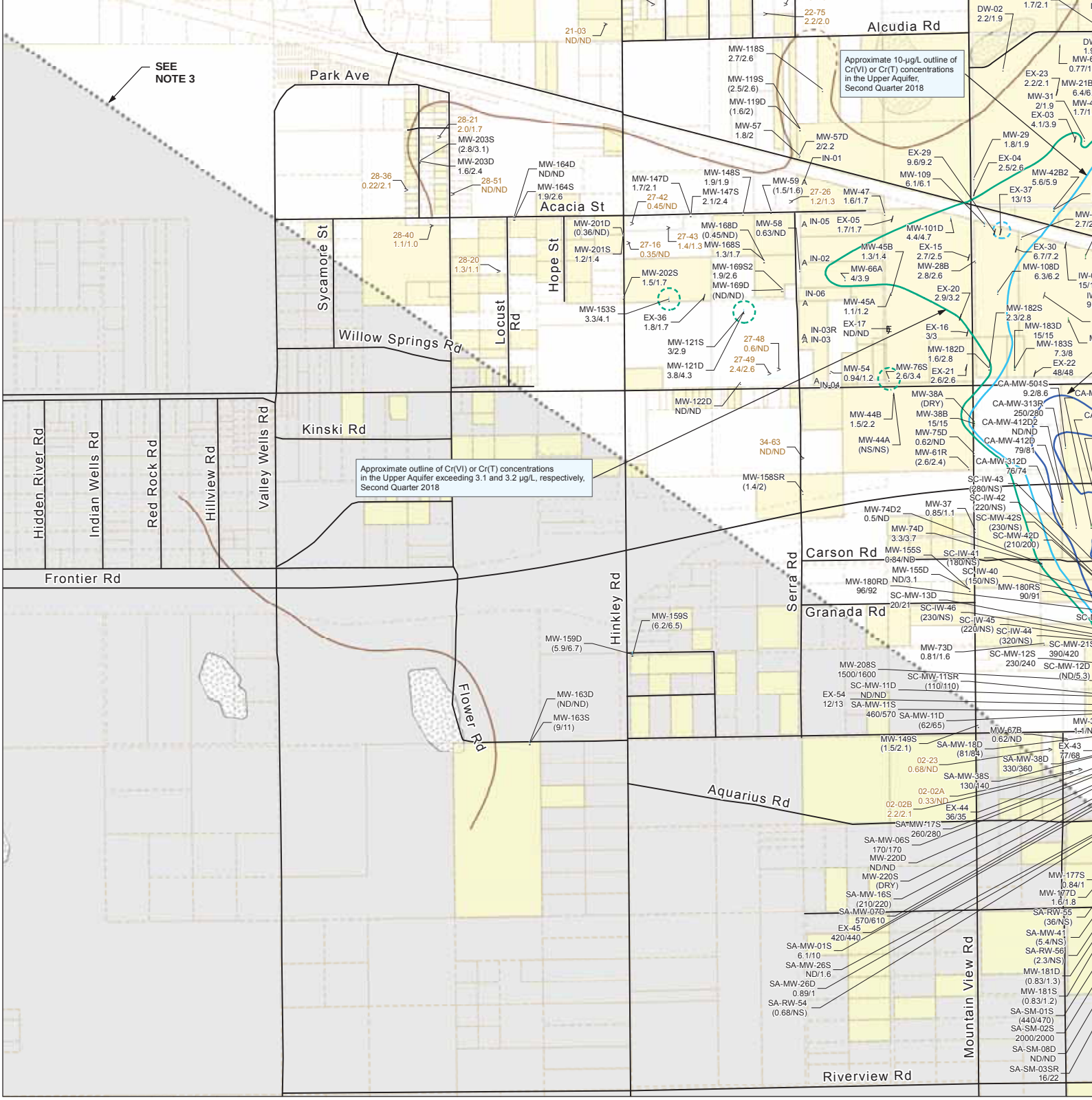

Orchard Rd
Grass Hopper
MW-184S3
4.7/5.3
MW-184S1
(2.7/3.4)
MW-184S2
(3.7/4.1)
Northern Disputed Plume Area
Bn Ranch Rd
Harpers Way
Hinkley Rd
MW-205S3
(3.6/3.7)
MW-205S2
(3.9/3.8)
MW-205S1
2.5/3
Halsted Rd
MW-196S2
2.5/2.6
MW-196S3
(ND/ND)
MW-196S1
(3.7/3.6)
MW-185S1
4.8/5.3
MW-185S2
(3.7/3.7)
MW-185S3
(3.9/3.9)
28N-05
3.5/3.1
MW-194S1
5.9/5.8
MW-194S3
(2.1/2.3)
MW-186S1
(4.6/4.8)
MW-194S2
(0.33/ND)
MW-186S2
(3.4/4.2)
MW-186S3
3.8/5.1
American Ave
Friends Rd
MW-195S1
4.9/5.3
MW-195S3
(1.5/2.2)
MW-195S2
(4.1/4.7)
Northern Disputed Plume Area
Sunset Rd
American Ave
MW-188S1
7/6.7
MW-188S3
(4.5/5)
MW-188S2
(3/2.9)
MW-193S3
ND/ND
Plymouth Rd


Fossil Bed Rd


Holstead Rd
Roy Rd
Holstead Rd
The 3.1/3.2-µg/L contour is shown as "- -?- -" where inferred and cannot be fully delineated by Second Quarter 2018 monitoring data.
MW-193S2 (3.2/3.1)
MW-193S1 (4.4/4.5)
MW-162S2 (ND/ND)
MW-162S1 3.7/4.1
MW-162S3 (ND/ND)
MW-161S1 (3.3/3.3)
MW-161S2 2.7/3
MW-161S3 (0.93/1.2)
MW-174S1 3.4/3.3
MW-174S3 (2.6/2.8)
MW-174S2 (2.4/2.4)
MW-130S2 3.8/4
MW-130S1 (3.7/3.6)
MW-212S2 2/2.3
MW-212S1 2.7/2.9
Fossil Bed Rd
American Way
Burnt Tree Rd
MW-131S1 (2.7/2.6)
MW-154S1 7.4/7.7
MW-154S2 (2.1/2.3)
MW-133S1 8.6/8.1
MW-136S1 3.9/4
MW-136S2 (ND/ND)
MW-135S1 (3.8/4)
MW-135S2 2.1/3.6
Mountain View Rd
Orchard St
MW-200S1 (0.71/1.8)
MW-200S2 (ND/ND)
MW-200S3 0.67/ND
MW-137S3 (6.4/6.6)
MW-137S2 4.6/4.8
MW-137S1 4.5/4.5
MW-139S1 3.7/3.7
MW-139S2 (0.51/ND)
MW-140S3 (3.4/3.8)
MW-175S2 (3/3)
MW-175D (2.7/3.2)
MW-175S1 3.3/3.3
MW-204S1 3.3/3.2
MW-204D 0.54/ND
MW-204S2 3.9/3.9
MW-173D (0.68/1.3)
MW-173S2 (3/3.1)
MW-173S1 3.6/3.5
MW-142S3 (2.9/2.9)
MW-142S2 3.3/3.2
MW-142S1 (3.5/3.9)
MW-113S2 (2.7/3.5)
Sonoma St
Hinkley Rd
MW-113D (ND/ND)
MW-113S1 2/2.7
MW-111S2 2.4/2.4
MW-111D (ND/ND)
MW-111S1 (2.4/2.5)
MW-157S (1.6/1.5)
Tindall Rd
MW-156S (0.61/ND)
Salinas Rd
Blanca Rd
Petra Rd
Pueblo Rd
Serra Rd
MW-123S2 (1.9/2.2)
MW-123S1 2/2.3
MW-124S1 2.6/2.5
22-103 1.9/2.0
MW-125S2 (1.6/2.4)
MW-125S1 2.1/2.5
MW-172S1 3/3
MW-172S2 0.51/ND
MW-171D1 (ND/ND)
MW-171S 2.2/2.5
MW-171D2 (ND/ND)
MW-117D (ND/ND)
22-48 1.5/1.5
MW-126S1 2.3/2.9
MW-126S2 1.4/2.1
Manacor Rd
22-44 1.8/1.8
22-60 0.25/ND
22-82 0.93/1.2
22-74 1.8/1.9
MW-83D 1.6/2.5
MW-83S 1.9/2.6


Mountain General Rd
Burnt Tree Rd
Coon Canyon Rd
MW-166S2
(ND/ND)
MW-166S1
0.22/ND
MW-197S2
(ND/ND)
MW-197S1
1.1/1
MW-197S3
(ND/ND)
Northern Disputed Plume Area
MW-138S1
4.9/4.6
MW-138S2
(4.6/4.3)
MW-141S2
4.1/4
MW-141S1
(3.7/3.7)
MW-219S1
2.8/2.8
MW-141D
(ND/ND)
MW-219S2
1/1
Mountain General Rd
MW-104S2
(8/2.7)
MW-104D
(ND/ND)
MW-106D
ND/ND
MW-106S
3/3
Coon Canyon Rd
MW-105D
ND/ND
MW-105S
2.7/3.4
MW-128S3
(1.6/1.8)
MW-128S2
(3/3)
MW-128S1
6.5/6.9
EX-32
0.27/ND
MW-107D
(ND/ND)
MW-107S
2.5/2.6
Coon Canyon Rd
MW-84D
0.12/ND
MW-206S
2.1/2.9
MW-94S
7/7
MW-94D
3.9/4.3
MW-97S
4.8/6
Thompson Rd
MW-85D
ND/ND
MW-85S
1.2/1.4
MW-84S
1.5/2.1
G-1R
0.55/ND
MW-221S
4.4/4.6
SEE
NOTE 3
MW-70D
1.2/1.4
EX-35
3.7/3.5
MW-79S
6.4/6.3
MW-70S
0.95/1.2
G-2R
1.5/1.4
MW-71D
0.3/ND
EX-62
4.4/NS
MW-79D
(ND/ND)
MW-69S
0.5/ND
MW-68S
2/2.4
EX-33
3.3/3
MW-71S
0.56/ND
MW-80S
0.34/ND
30E-01
1.5/1.4
MW-69D
1.5/1.7
EX-31
5.6/5.2
MW-72S
5.7/5.6
BGS-48
0.45/ND
MW-68D
2.6/2.4
MW-55S
Approximate 50-µg/L outline of Cr(VI) or Cr(T)




**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
- A 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
- + Location is Approximate, Survey Pending

MW-177D Well ID
1.6/1.8 Cr(VI)/Cr(T) concentrations in µg/L; maximum of primary and duplicate samples during Second Quarter 2018 sampling.
(440/470) 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 t the reporting period, the most recent results are shown.

2. The concentration contours are based on Second Quarter 2018 chromium results for the groundwater monito Figures 5-1 and 5-2. Results for domestic wells (brown-colored labels) were not used for chromium plume co Control Board's Cleanup and Abatement Order dated November 4, 2015 (Water Board 2015).

3. Pursuant to the Lahonton Regional Water Quality Control Board's Cleanup and Abatement Order dated Nove of the Lockhart Fault and on or east of Dixie Road. Monitoring wells sampled southwest of Lockhart Fault and

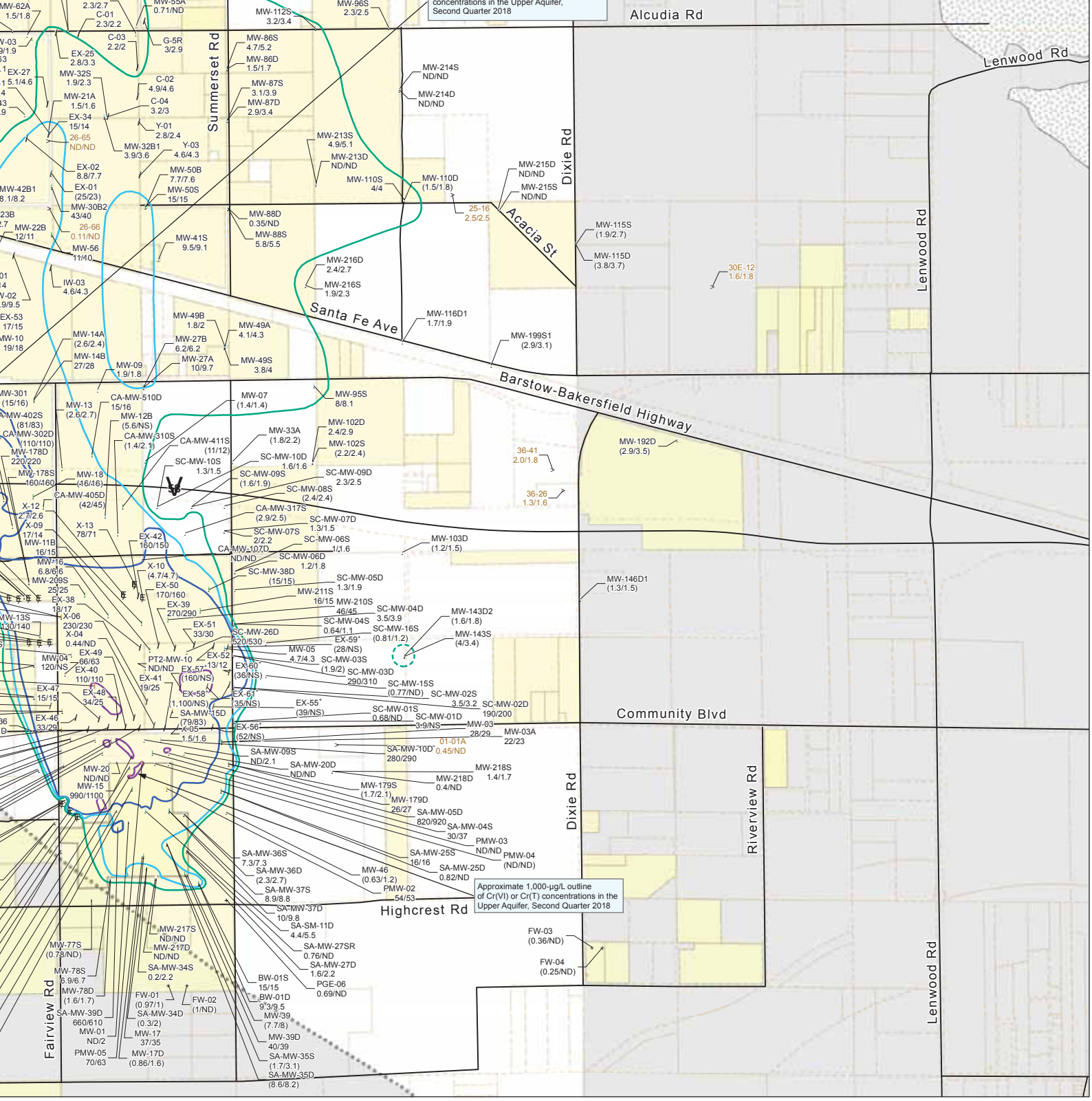
4. Chromium plume contours in the general area south of Highway 58, were developed using a larger set of mo and Northwest Freshwater Injection Projects (Arcadis 2018). Select wells from that program are shown here

**WORK CITED:**


Arcadis. 2018. Second Quarter 2018 Monitoring Report for the In Situ Reactive Zone and Northwest Freshwate California Regional Water Quality Control Board, Lahontan Region Order No. R6V-2008-0014 (Waste Discharg

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

Water Board. 2015. Cleanup and Abatement Order No. R6V-2015-0068 Requiring Pacific Gas and Electric Com




he Second Quarter (April through June) 2018 monitoring period. For wells sampled multiple times during

ring and extraction wells that are completed in the shallow zone and deep zone of the Upper Aquifer as noted on ntouring, except for those in the northern disputed plume areas, pursuant to the Lahonton Regional Water Quality

mber 4, 2015 (Water Board 2015), groundwater monitoring wells are not used for chromium contouring if they are located in the areas southwest d east of Dixie Road were sampled in support of United States Geological Survey background chromium investigations.

nitoring data which is presented in the Second Quarter 2018 Monitoring Report for the In Situ Reactive Zone for reference.

r Injection Projects, Pacific Gas and Electric Company, Hinkley Compressor Station, Hinkley, California, e Requirements Identification No. 6B369107001). July 30.

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

mpany to Cleanup and Abate Waste Discharges of Total and Hexavalent Chromium to the Groundwaters of the Mojave Hydrologic Unit. November 4.

0 1,000 2,000 Feet

**FIGURE 5-5**
**CHROMIUM RESULTS FOR SECOND QUARTER 2018 GROUNDWATER MONITORING AND DOMESTIC WELL SAMPLING AND MAXIMUM COMPOSITE PLUME OUTLINE IN UPPER AQUIFER**

SECOND QUARTER 2018 GROUNDWATER MONITORING REPORT AND DOMESTIC WELL RESULTS
SITE-WIDE GROUNDWATER MONITORING PROGRAM

PACIFIC GAS AND ELECTRIC COMPANY
HINKLEY COMPRESSOR STATION
HINKLEY, CALIFORNIA