

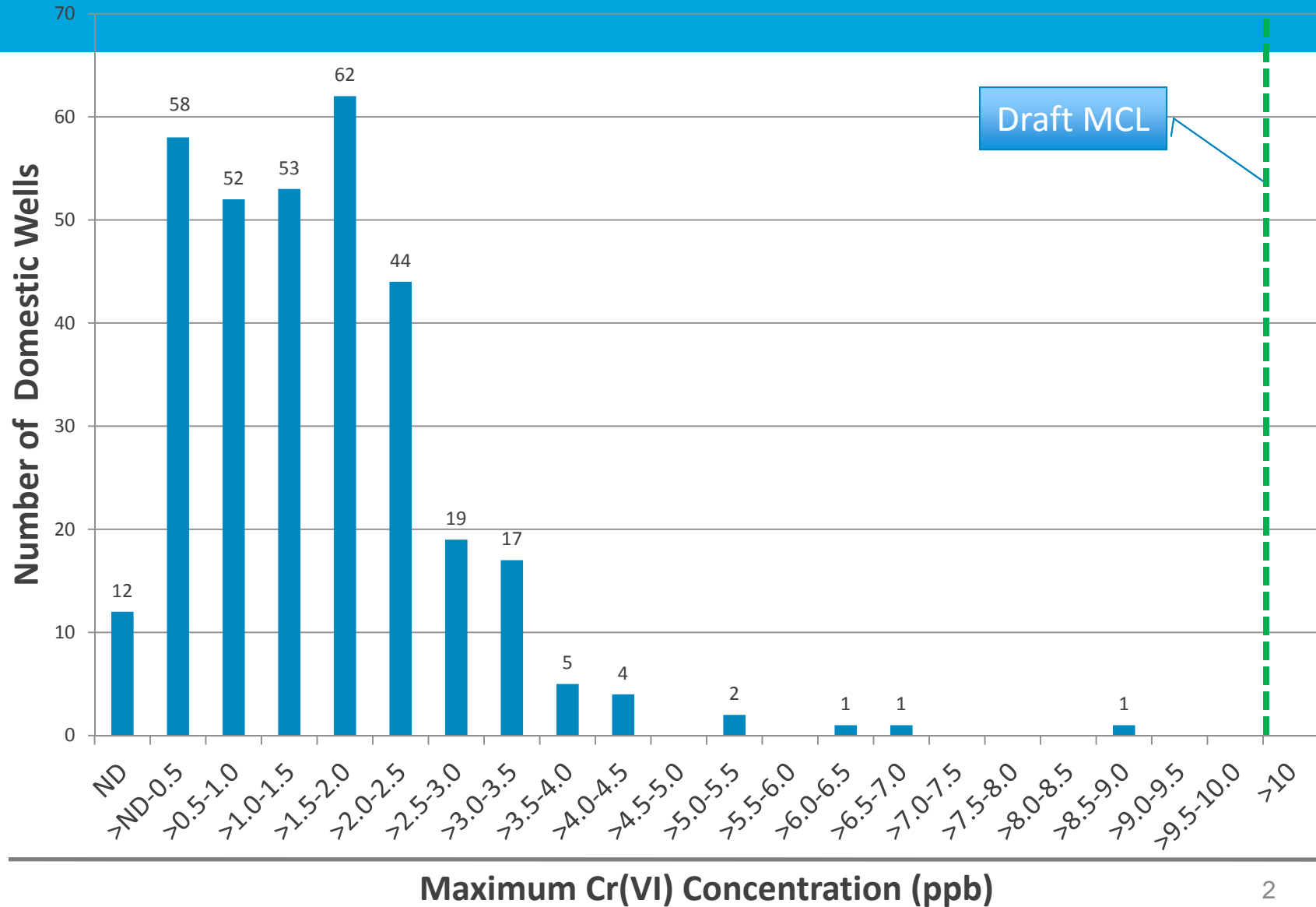
Hinkley Groundwater Remediation Program

October 9, 2013 – Lahontan Water Board
Barstow, California





Maximum Cr(VI) Conc. at Domestic Wells Within WHW Program Area – BEFORE Treatment





September 3 – WHRW Modification Proposal

- **All Hinkley domestic wells are currently below the newly proposed drinking water standard for hexavalent chromium (without treatment)**
- **Greater understanding of plume and naturally occurring background levels in the Hinkley Valley**
- **Program can be protective while recognizing state-wide developments and issues**



WHRW Modification (cont.)

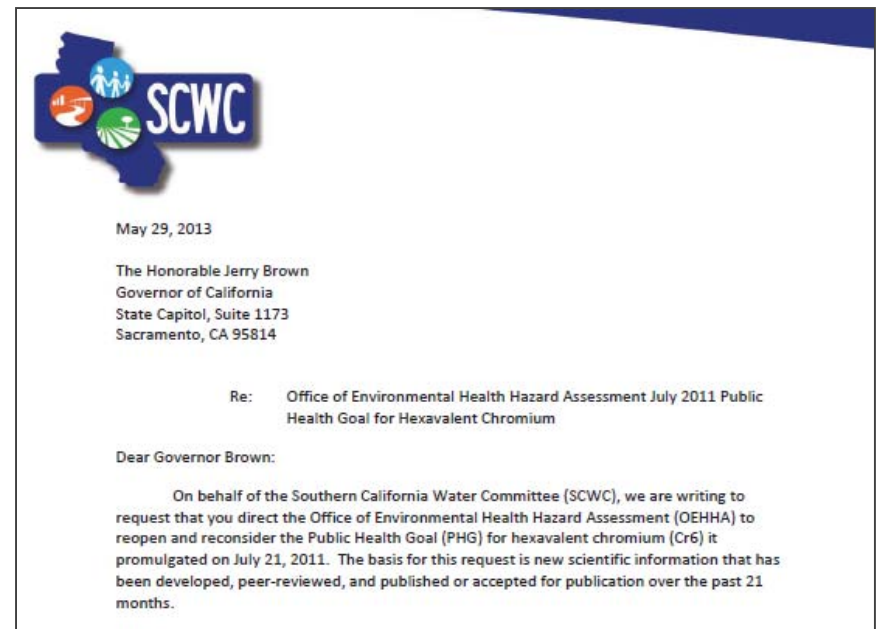
Source	Chromium 6 Level (ppb)
City of Davis (Well 01), Yolo County	19
Oak Trail Ranch Mutual Water (Well #2), Santa Barbara County	16
City of Sacramento (Well 154), Sacramento County	12.6
City of Sebastopol (Well 04), Sonoma County	9.7
California Water Service – Livermore (Well 09-01), Alameda County	7.5
City of Stockton (Well 19 – West Lane), San Joaquin County	5.9
West Palm Springs Village (Well 26), Riverside County	5.7
Golden State Water Co. – Lucerne (Sutter), San Bernardino County	4.6
Hinkley	3.1
Cal-Water Service Co. – Chico (Well 03_03), Butte County	2
Alameda County Water District (Mowry Well 06), Alameda County	1.5

- **State-wide: hexavalent chromium present in many community’s water supply at these low levels**
- **Nearby communities like Apple Valley and Victorville have higher levels of hexavalent chromium than Hinkley**



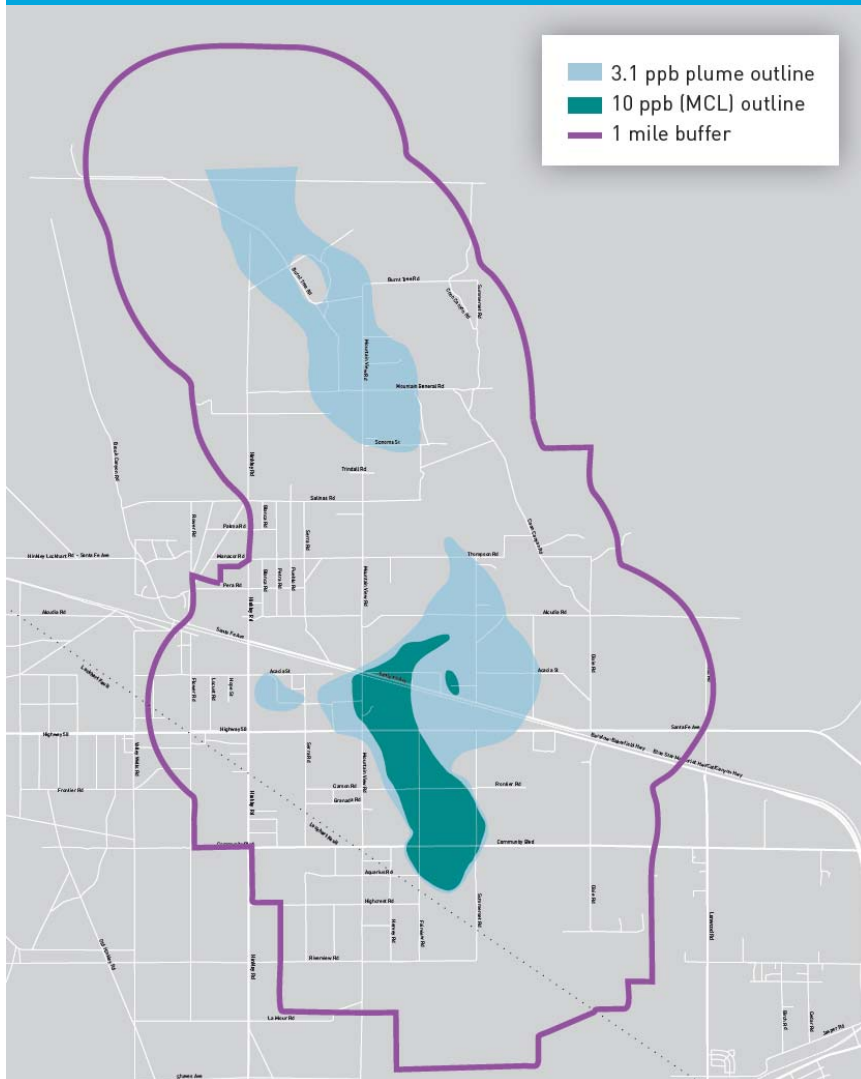
SCWC Requests review of Cr6 PHG based on new data

- SCWC (Southern California Water Committee) - 200 member organizations include regional and local governments, business, agricultural groups, labor unions, environmental organizations & water agencies
- May 29 2013 – Request to Gov Brown to direct OEHHA to reopen hexavalent chromium PHG





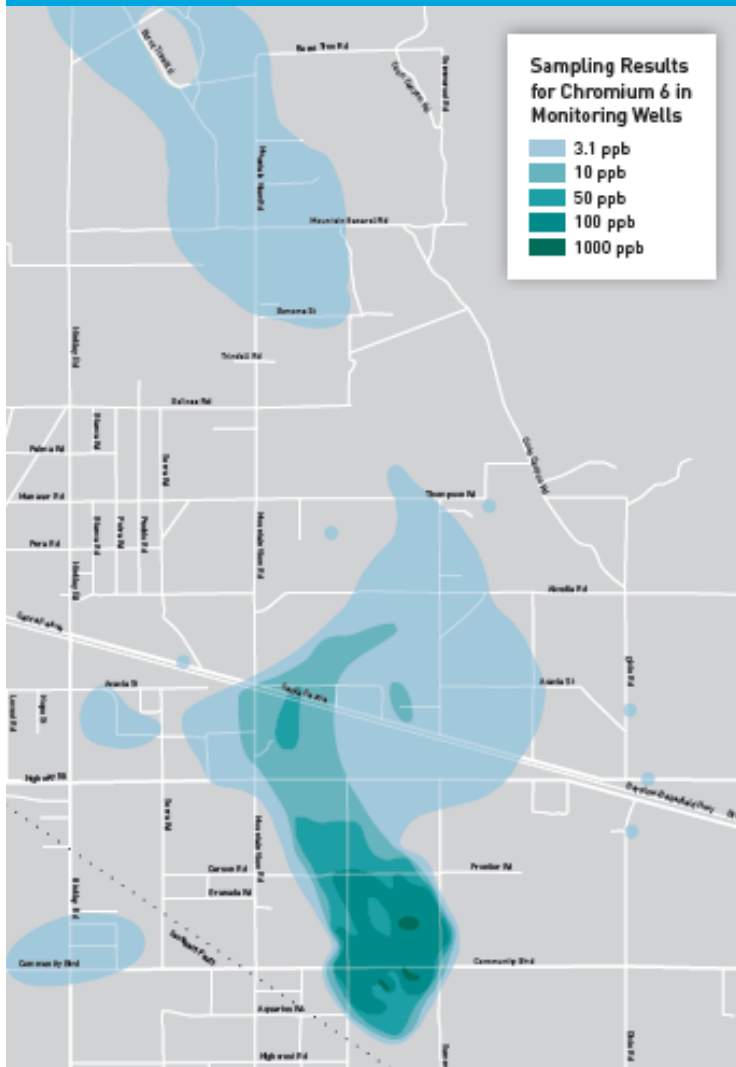
WHRW Modification (cont.)



- No changes for current program participants
- Future Eligibility determined by:
 - Residence within contiguous plume boundary
 - Domestic well results above current established background level of 3.1 ppb for hexavalent chromium
- Bottled water for residents with well test results below 3.1 ppb



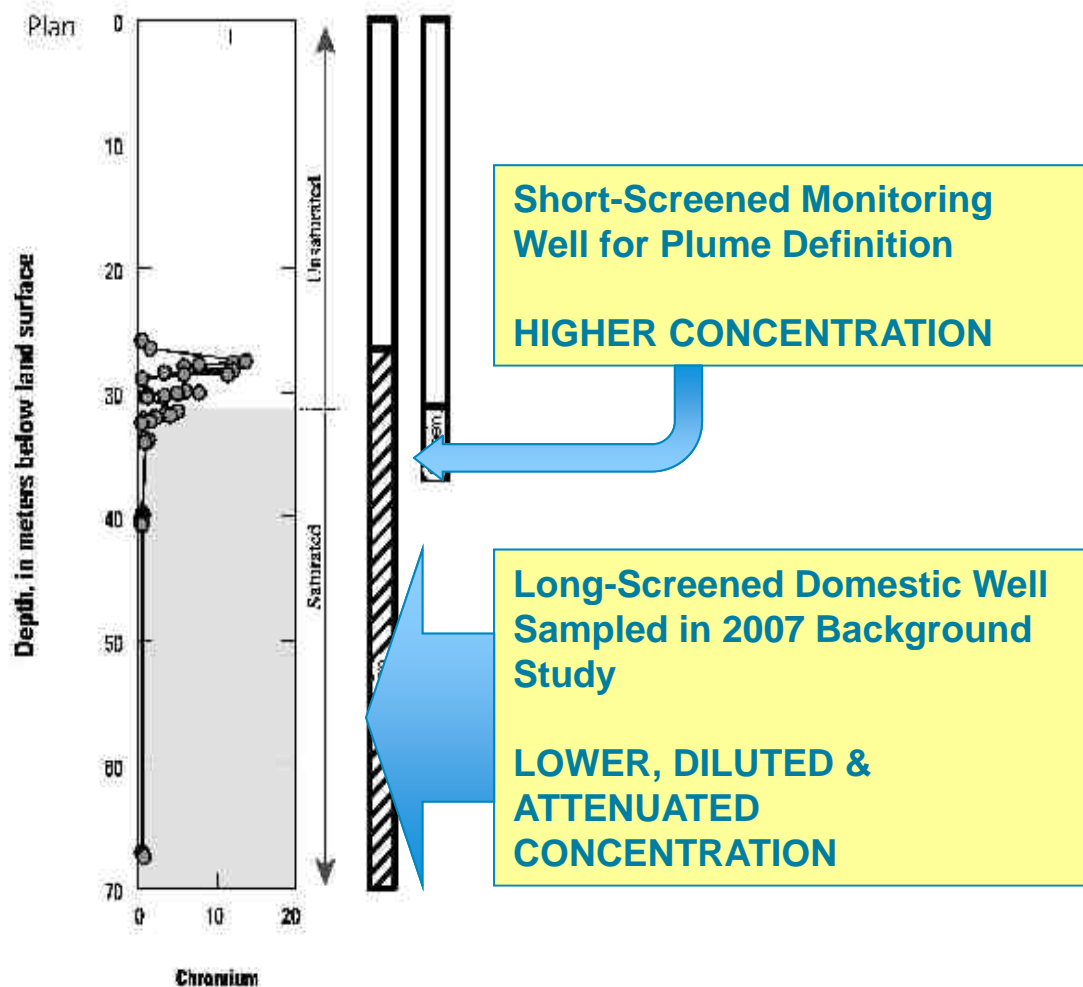
Background Update



- Ongoing effort to define plume to currently defined background levels (3.1/3.2 ug/L)
- Working with USGS, community advisors and Water Board to refine site understanding and background levels
- Large areas of very diffuse concentrations in shallow aquifer
- >550 monitoring wells



Research work - Background Cr Higher at the Water Table



~ 3-10 ug/L (?)

Data at Hinkley

3.1 ug/L = 95% UCL



Agriculture Units – Next Step for Long-Term Remediation

