



SCV
WATER

April 18, 2023

ITEM NO.
7

PFAS Updates

PFAS History & Update

- State and Federal regulations have been a moving target
 - Division of Drinking Water Notification and Response Levels
 - Several DDW Orders have been issued and NL/RL values updated
 - Current NL & RL
 - PFOA NL - 5.1 nanograms/liter (ng/L), RL - 10 ng/L (Running Annual Averages)
 - PFOS NL - 6.5 ng/L, RL - 40 ng/L (Running Annual Averages)
 - Office of Environmental Health Hazard Assessment (OEHHA)
 - Public Health Goals - non-enforceable levels set at the No Observed Adverse Effect Level (NOAEL)
 - Draft PFOA - 0.004 ng/L, PFOS - 1 ng/L
 - US Environmental Protection Agency 2023 Draft Levels - Discussed in detail later



PFAS History & Update

- Unregulated Contaminant Monitoring Rule 3 first required sampling for PFAS
- DDW initial Order required quarterly sampling
 - May 2019 - 15 wells sampled
 - Aug 2019 - All wells sampled
- Initially 21 wells were taken offline (15 wells still offline)
- Four wells have been returned to service with treatment, with another 2 expected by the end of 2023



Public Notifications

- Division of Drinking Water - Notification Levels
 - Requires public notification to governing entities
- 40 CFR 300.415(n) - Community Relations in Removal Actions
 - The Lead Agency (SCVWA) shall inform the community
 - Actions taken
 - Respond to inquiries
 - Provide information concerning the release

DDW NL Notifications

Well	PFOS (6.5 ng/L)	PFOA (5.1 ng/L)	PFHxS (3.0 ng/L)	Status
E15	6.7*	9.3	5.7	Online
E17		7.3	6.3	Online
Lost Canyon 2A	9.9*	6.4	3.2	Online
Mitchell 5B**	15	6.7	5.3	Offline
P3		7.1	7.0	Online
Sand Canyon	6.4*	5.7*	3.4	Online
Sierra	8.9*	5.1*	5.6	Online
W9		19		Online
W10	5.4*	6.8*		Online
206			3.7	Online
207		6.6	3.5	Online
N13			23	
N13 Blend			6.4	Online

*Previously notified

**Sampled 5/2021 (taken offline Nov 2020)

Blank cells are either below the NL or <MRL



40 CFR 300.415(n) - Community Relations in Removal Actions

- Well N13 exceeded the PFHxS Response Level (RL) or 20 ng/L with a concentration of 23 ng/L.
- Several options were evaluated regarding the continued use
 - Purchase additional import water to blend PFHxS levels below RL
 - Provide PFAS treatment technologies to remove PFHxS
 - Operate the well without blending
 - Removing the well from service

Current Status - Groundwater Treatment

- Two+ Plants online
 - N Wells - 6,250 gpm and ~\$9.6M construction cost
 - Valley Center - 1,200 gpm and ~\$5.1M construction cost
 - Q2 (May 2023) - 1,200 gpm and \$2.4M
- One Plant under construction
 - Honby/Santa Clara - 2,000 gpm and ~\$9.6M construction cost
- Two Plants in design
 - T7, U4 and U4 - 3,000 gpm and ~\$14.2M construction cost
 - S Wells - 3,000 gpm and \$12M construction cost



USEPA Draft MCLs

- PFOA and PFOS - 4 ng/L (ppt)
 - DDW current NL - 5.1 ng/L & 6.5 ng/L
 - DDW current RL - 10 ng/L & 40 ng/L
- PFNA, PFBS, PFHxS and GenX (HFPO-DA)
 - Combined Hazard Index calculation
- Impacts
 - ~11 additional wells will come offline
 - Up to 17.7K afy of supply
 - More precise supply impacts under analysis

Cost and Capacity - Future

- Kennedy/Jenks provided an initial cost analysis using an 80% PFOA RL rule
- Planning Phase
 - 4 plants previously identified (based on KJ report)
 - ~6,500 gpm
 - ~\$40M construction cost*
- Additional Impacts
 - 4 new plants identified (based on draft MCL)
 - ~6,500 gpm
 - ~\$27M construction cost*

*Conceptual and subject to revision based on detailed planning, design and bids

YOURSCVWATER.COM



Summarized Cost and Supply Impacts

Description	Capacity	Cost (CIP)	Cost/Year (O&M)
Restored	8,650 gpm	\$17M	\$2.4M
Construction/Design Phase	8,000 gpm	\$41M	\$2.5M
Planning Phase	10,200 gpm	\$47M	\$3.9M
Additional Impacts	8,300 gpm	\$25M	\$2.9M
	TOTALS	\$130M - \$160M	\$11.3M - \$13.9M

- *Includes Q2
- CIP & O&M estimates are still being developed. They are based on 2020 actual costs and consultant estimates and some recent costs
- The total range includes ~25% contingency