



Water Quality Control Professionals LLC

3/2/2023

Red Sky Ranch TTHM Levels below MCL (Maximum Contaminant Level).

Dear Red Sky Ranch Homeowners,

The maximum contaminant level (MCL) for TTHM is 0.080 mg/l. The running annual average at Red Sky Ranch is currently 0.064 mg/l. We are now below the maximum contamination level.

The water treatment system had previously exceeded the maximum contaminant level for TTHM. TTHM forms when organic carbon is chlorinated. We have been analyzing Total and Dissolved Organic Carbon (TOC,DOC) in the raw water and the filtered water. We discovered there was a significant change in the source raw water. The TOC concentration in the raw water had been as high as 9 mg/l. When the GAC filters (carbon filters that remove TOC/DOC) were designed and installed, the incoming TOC was 2.8 to 3.8 mg/l. The current system was not designed to treat the unusually high TOC levels.

As a result of proactive measures taken to date, we are seeing TOC and DOC levels in the raw water returning to normal levels.

The previous 2 quarterly samples are well below the TTHM MCL.

Red Sky Ranch Results

2nd Quarter 2021 – 0.0526 mg/l

3rd Quarter 2021 – 0.0776 mg/l

4th Quarter 2021 – 0.1422 mg/l

1st Quarter 2022 – 0.0821 mg/l

2nd Quarter 2022- 0.1318 mg/l

3rd Quarter 2022 – 0.087 mg/l

4th Quarter 2022 - 0.0258 mg/l

1st Quarter 2023 – 0.0127 mg/l



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What Red Sky Ranch is doing to correct the issue:

1. Water flushing and bleeding has been increased in frequency to decrease the water age in the system.
2. New GAC has been installed into the #1 and #2 vessel at the WTP.
3. An engineer is evaluating the existing system.
4. *New GAC will be installed in May 2023.
5. *A THM volatilization system will be installed in tank #2. We are hoping to have this complete by July 2023. The system is designed to remove 50% to 60% of TTHM.

Sincerely,

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