

Weekly Review



Date: 8/25/2023
To: USDA, OCWD, FANN, ADEQ, SWI-Ardurra
Re:
Sender: Jan Tijmes

8/21/2023

Both Fann and Canyon State Filtration were present today at Wellsite 4. Overcast day, 80's. Michael M (Fann) was securing the VAF control panel with Nick (Canyon State) on east side of new control panel. He also continued wiring the distribution block in the SES panel. Jim and Juan poured a 4" deep slab around the east side of the SES pad, extending it for the new mini-power station.

Nick and a crew of 3 men from Canyon State Filtration emptied the tanks from the pressure test water on Friday, 8/18, prepared for loading gravel, and began designing a line from the VAF backwash port to the lower backwash pipe on the arsenic media tanks. Three sizes of gravel, 1/4", 1/6", and 1/8" were filled to about 3" above the outlet laterals (below the manways).



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8/22/2023

Canyon State (Nick & 2 crew members) was at Wellsite 4 adding gravel into each tank. Crew bolted the manways shut using lock-seize. Tanks were filled with raw water and chlorine was added to 100ppm for a 24hr chlorine disinfection test. All valves were tagged with labels coinciding with O&M manual to instruct proper operation of system. Both tanks were bolted to the slab using $\frac{3}{4}$ " drill bits and $\frac{5}{8}$ " bolts with epoxy. 6" inlet laterals in tanks were inspected and roughly 1" holes at the tops were found spaced approx. every 1" from one another. No lateral supports were found.

Fann (Jim and Juan) were at Wellsite 2&3 digging out the distribution line tie-in at the SE corner of the wellsite to pour a thrust block (kicker). They have a plan for installing the bypass line tomorrow. The sonotube footings were poured for the future control panel last Wed, 8/16.



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8/23/2023

The 24hr chlorine test ended in the afternoon, however due to inclement weather Canyon State decided to return the following day to begin filling with Metsorb media.

Fann (Jim and Juan) poured the kicker for the gate valve at the SE corner of wellsite 2&3 and began assembling the 2" bypass line above ground north of the treatment tanks.

8/24/2023

Monthly Progress Meeting for Arsenic and Waterline Projects:

In attendance:

USDA- Michael Dean

SWI-Ardurra- Art Beckwith and Jan Tijmes

OCWD- Doug Bowen

Fann- Paul Johnson and Michael McCartney

Canyon State- Nick Gudovic

ADEQ Schedule:

Oak Creek Water is targeting the week of Sept 18th for the completion of the Arsenic project. Their goal is to be live by Sept 20th. ADEQ will be requested to attend the pre-AOC meeting around Sept 21st / 22nd. Canyon State Filtration stated they can be completed by September 1st, and Fann stated they can be completed early the week of Sept 25th.

Oak Creek recently switched from CoBank to RCAC, so payments may be delayed.

Canyon State was at Wellsite 4 loading Metsorb media post chlorine testing. Testing is as follows:

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- P-Test occurred Friday, Aug 18, results are forthcoming,
- Tues Aug 22, tanks were loaded with gravel, filled with water, then with 100ppm liquid chlorine,
- Wed Aug 23, tanks have 50 to 60ppm chlorine because chlorine consumes bacteria from gravel- at least 10ppm residual is needed,
- Thurs Aug 24, Metsorb media is loaded and will sit for another 24hrs and if 10ppm or more exists, the tanks get backwashed,
- Fri, Aug 25, tanks are backwashed then tested for coliform. Sample is taken to the lab,
- Final samples for ADEQ include pressure test, chlorine test, and bacteria tests.

Fann (Jim and Juan) continue to assemble the bypass line at Wellsite 2&3. They seek a 2" corp stop for the tie-in and may utilize a ball valve and nipples. Fann (Michael) will be completing redline as-builts for Wellsite 4 by the end of week.

Final items needed at Wellsite 4 are:

- Canyon State to connect the backwash tanks and the pre-filter flush line to the waste line,
- The P, CL, and bacT tests stated above,
- Fann awaiting a terminal block from John Patton to install,
- Install a sunshade installation over the control panel,
- Final landscaping.

Site Visit to Wellsite 4, 2pm- Loading Metsorb Media

Canyon State Filtration (Nick, Patrick, and Apolinas M.) brought 6 super sacks (28cf) of Metsorb media plus 2 cf boxes to the jobsite to fill the tanks. Each tank at wellsite 4 requires 85cf of media (3 supersacks plus 1 cf box). Nick drove the reach-lift machine and carried one supersack at a time to each access port at the top of the tanks as Patrick untied and emptied the contents into each tank. Tanks were half full of water from the chlorine test water, and following the filling of media, the tanks were refilled with raw water. Chlorine would then be added for additional disinfection.

The conditions were very wet from previous day's storm, so the reach-lift was rutting and having difficulty maneuvering in the wellsite. Oak Creek Water will observe the site Monday to ensure nothing was harmed during loading of the media.

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Members from Canyon State were present at Wellsite 4 to continue working. A sample was taken to ensure levels of CL above 10ppm. Fittings for the backwash tanks did not arrive, so crew will continue connecting the backwash tanks and pre-filter backwash line on Monday, 8/28.