



St. Vrain Water Authority Monthly Activity Report November 2023

Daily Operations include recording daily flow totals and chemical levels, record daily process control data. Completion of plant start-up and visual inspection of plant equipment. Collect and analyze daily lab samples. Completion of end of day shutdown and lock up.

11/1/23: Completed daily operations. Completed October monthly operating report to submit to CDPHE.

11/2/23: Completed daily operations. Performed Acid CIP on UF Skid #2. Completed monthly operations activity report.

11/3/23: Completed daily operations. Neutralized Acid CIP waste from cleaning UF Skid #2.

11/6/23: Completed daily operations. Met DuPont and lead tour of site for Johnstown engineers and construction team.

11/7/23: Completed daily operations. Met with SVWA and Plummer to discuss injection well shutdown and plant flush mode operation.

11/8/23: Completed daily operations. Performed chlorine CIP on UF Skid #2. Met REC ESD onsite to discuss replumbing of RO flush water to recycle pond.

11/9/23: Completed daily operations. Flushed Hach CL17 chlorine analyzer sample line and cleaned Y-strainer. Neutralized chlorine CIP waste from cleaning UF Skid #2.

11/10/23: Completed daily operations. Completed general cleaning at the Injection Well Pump Station. Met SVWA and ITP Well to close injection well head. Plant operation adjusted to flush only mode. Met REC ESD onsite and assisted with rerouting RO flush water piping.

11/13/23: Completed daily operations. Started up UF system to fill interstage basin. Checked and manually ran recycle pump system. Flushed Hach CL17 Chlorine Analyzer. Reviewed sanitary survey guidance documents.

11/14/23: Completed daily operations. Completed general cleaning in Acids Room. Created chemical handling SOP for sulfuric acid.

11/15/23: Completed daily operations. Met DuPont and Johnstown staff for a tour of the plant. Continued generating SOPs.

11/16/23: Completed daily operations. Ran UF to fill interstage basin. Met Wiggen and East Cherry Creek Valley for a tour of the plant.

11/17/23: Completed daily operations. Shut valve from raw water tank, started UF to fill interstage until EQ basin drained to low level. Started recycle pond pump to fill EQ basin and lower recycle pond level. Valved RO concentrate to brine tanks, operated RO and finished water pumps to lower interstage level and flow water through calcite contactors. Continued filling interstage basin with UF and filling EQ basin with recycle water.

11/20/23: Completed daily operations. Flushed water to interstage basin and recycle pond to bring water back to head of plant.

11/21/23: Completed daily operations.

11/22/23: Completed daily operations. Operated UF to fill interstage basin.

11/24/23: Completed daily operations.

11/27/23: Completed daily operations.

11/28/23: Completed daily operations.

11/29/23: Completed daily operations.. Updated SDS binder.

11/30/23: Completed daily operations.

St. Vrain WTP Monthly Summary

Monthly Water Totals	November 2023
Raw (MG)	1.6873
Filtrate (MG)	1.5264
Finished (MG)	1.3697
Concentrate (MG)	0.1764
Finished Water Quality	
Average Entry Point Free Chlorine Residual (mg/L)	1.75
Average Entry Point pH (SU)	7.71
Average Entry Point Conductivity (μ S/m)	344
Average Entry Point Fluoride (mg/L)	0.71
Average Entry Point Alkalinity (mg/L)	171