











# Rogue Drinking Water Provider Perspective

Ben Klayman; Director of Water Quality and Treatment Jason Canady, Public Works Director (Grants Pass)

Rogue Basin Wildfires and Drinking Water Supplies – Impacts and Opportunities Workshop

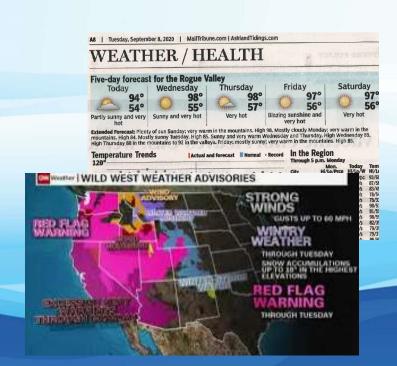
January 12, 2021

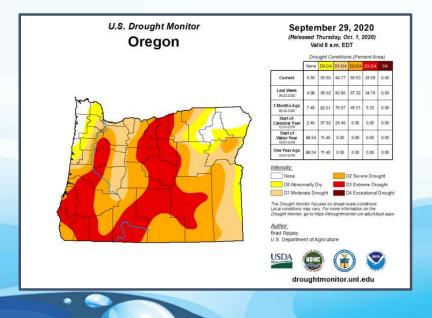


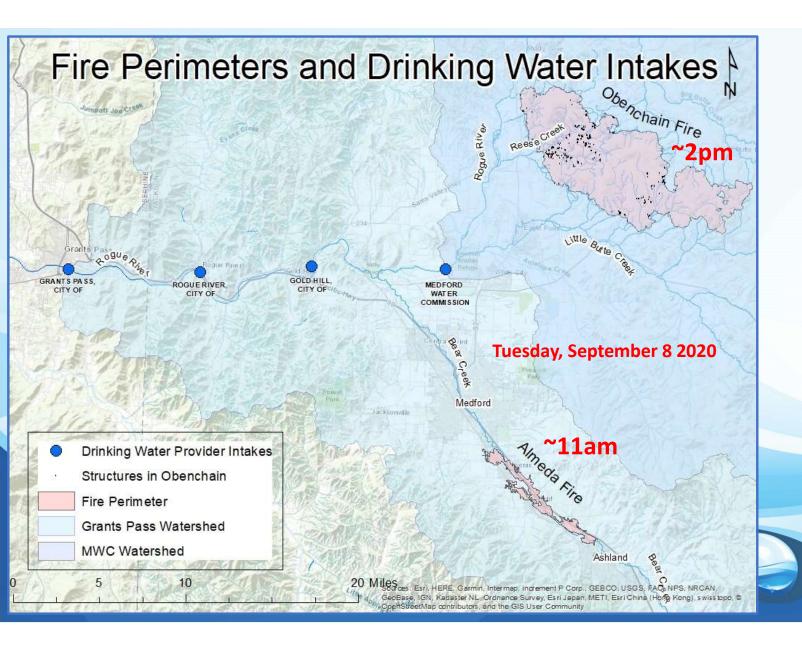


### The stage had been set for extreme fire conditions

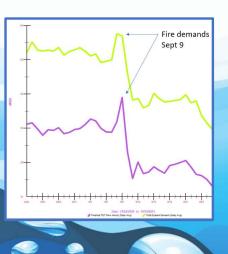
- Unprecedented winds; Extreme fire danger
- Jackson County in Extreme Drought
- Risk of power outages, particular at WTP

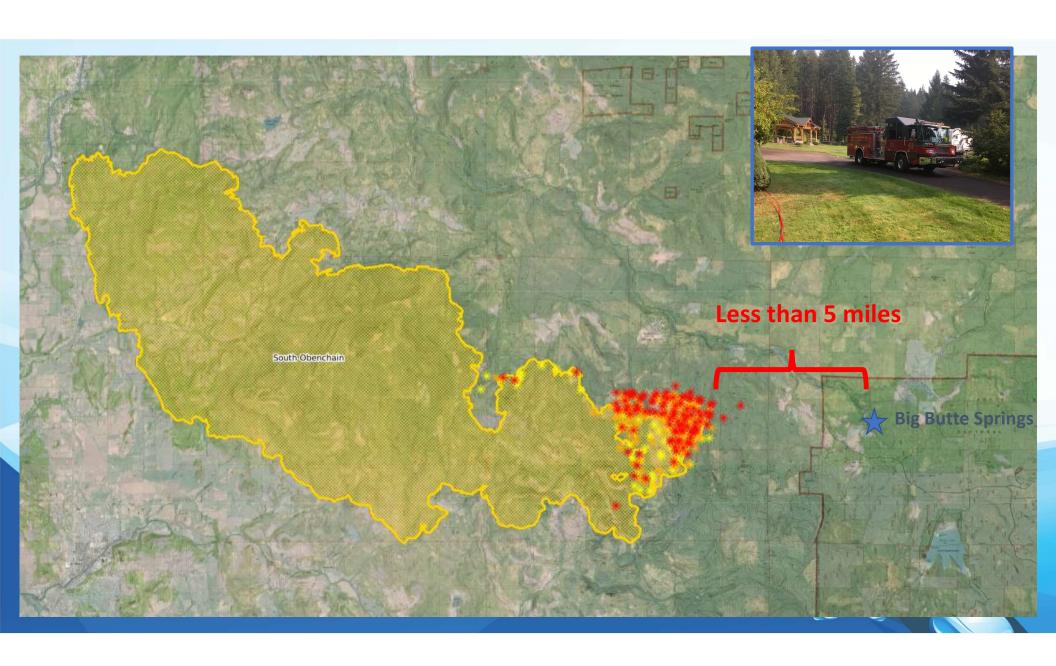












## **Risks to Drinking Water**

- Turbidity
- pH and alkalinity
- Temperature
- Organic carbon and nutrients
- Disinfection byproducts
- Harmful algal blooms
- Metals concentrations
- VOCs and other "contaminants"

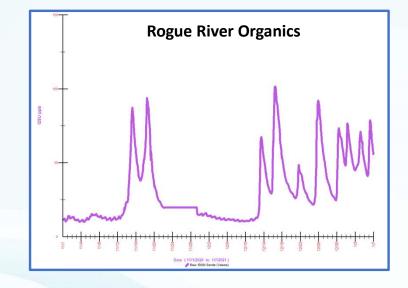


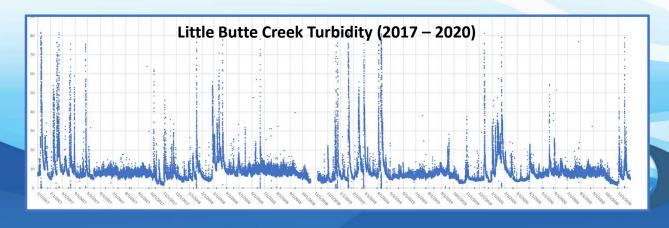


# **Source Water Monitoring**

- Updated source water monitoring plan
  - Frequency
  - Locations
  - Parameters
  - Improved online monitoring capabilities

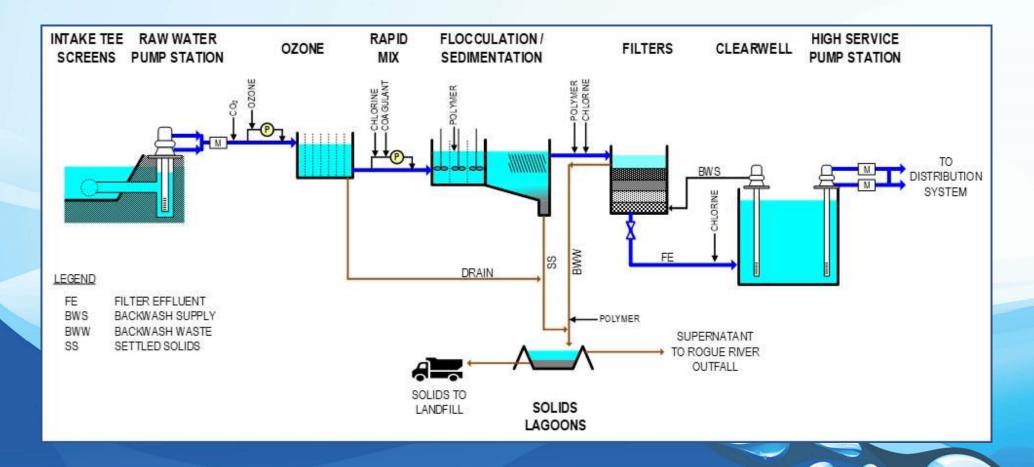
#### Data Analysis







#### **MWC Treatment Resilience**



# **Backup Power Resilience**

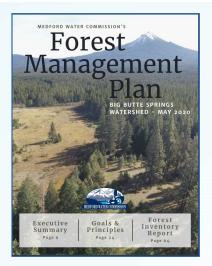
Enable production of up to 23 mgd fully treated water without grid power Scheduled to be online summer 2021





#### **Source Watershed Resilience**

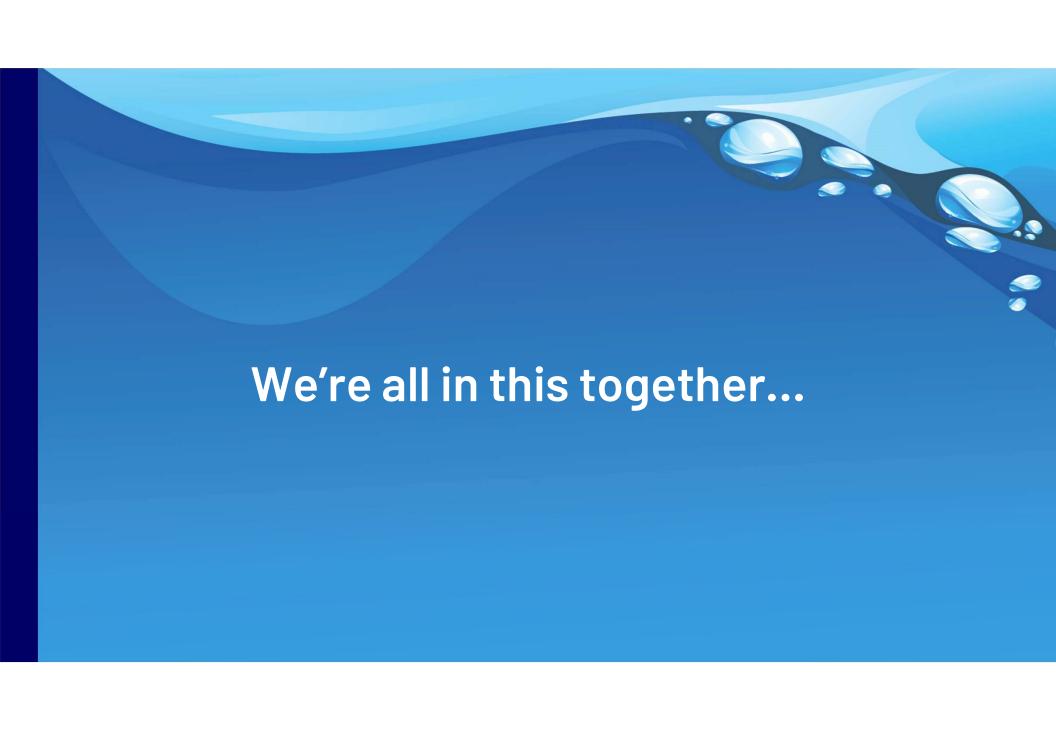
- Forestry
  - Forest management on MWC land
  - Collaboration with Forest Service, BLM, private timber, other landowners and stakeholders
- Agriculture
  - Working with JSWCD, irrigation districts and others on Agricultural non-point source reduction
  - NWQI NRCS grant focused on upper Rogue
- Urban
  - Almeda Fire and Bear Creek
  - · Industrial and urban areas upstream of DW providers
  - Stormwater monitoring and control





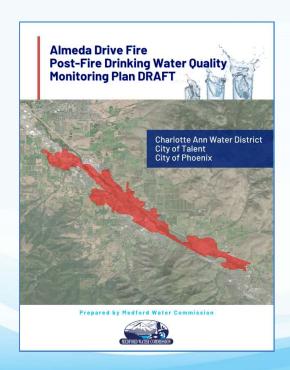






### **Regional Collaboration**

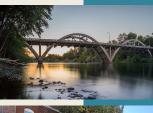
- Distribution system monitoring for VOCs
  - Talent, Phoenix, Charlotte Ann Water District sampling every burned structure prior to re-connection to water system
- Source Water
  - Increase in monitoring and data-sharing amongst Rogue Drinking Water Partners (RDWP)
  - Regional emergency response plan development
- Partnering Agencies
  - State / County agencies providing guidance and resources
  - Non-profits





# **Grants Pass Perspectives**

- Collaboration is key to ensuring safe drinking water
  - Shared resources such as online instrumentation assists all utilities in monitoring potential threats
- Development of enhanced tools is needed
  - Models to predict time of travel in local waterways
  - Real-time, online data sharing
  - <u>Affordable</u> instrumentation to provide accurate data without the need of slow and expensive lab testing
- All partners will be better prepared for the next event which we hope will never happen













# **Grants Pass Perspectives**

- Initial data has not revealed any immediate reasons to be worried
  - Continued monitoring will be required
- It is hard to say that the data is "not typical" most utilities do not monitor raw water to the extent that it is being done in response to this fire
  - Finished water is all that traditionally matters
- More data will be required to create a good post rainfall profile of the source water to assist operators to make decisions ahead of future events











#### **THANK YOU**

Medford Water Commission 200 S. Ivy Street - Room 177 | Medford, Oregon 97501 541.774.2430

