



CENTRAL  
**IRON**  
COUNTY  
**WATER**  
CONSERVANCY DISTRICT



# Background

- The Central Iron County Water Conservancy District develops, improves, and increases the water resources within Iron County
- Has aided 18 other water companies and subdivisions at their request to correct deficiencies and address water system issues
- Secured over \$15,000,000 in Grants and low interest loans for Property Owners in the last 12 years.
- Investigation into water treatment and source options for the Chekshani subdivision started at the request of multiple property owners.
- 70 lots, 45 with homes constructed.

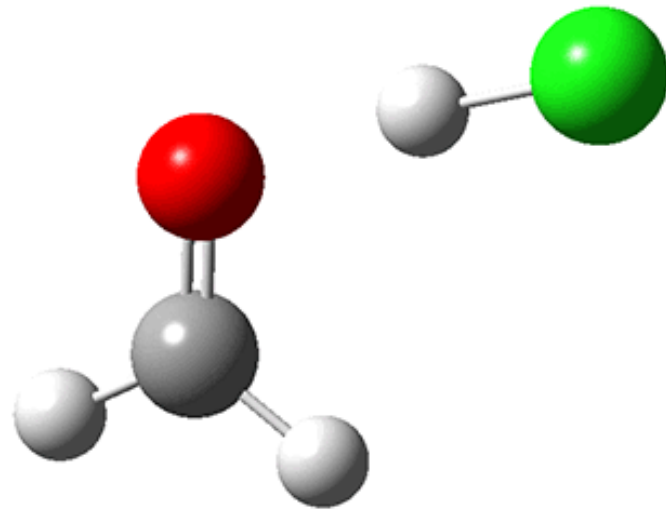
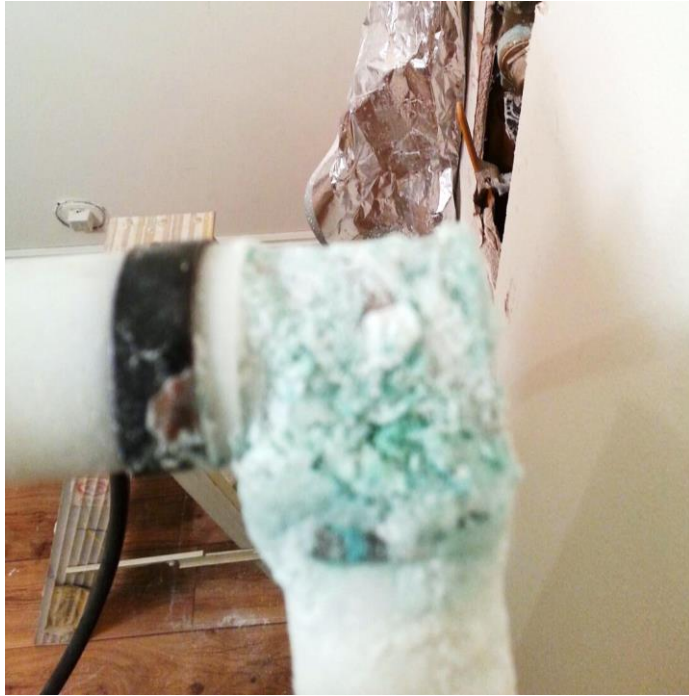


## Chekshani Cliffs Corrosion Control & Water Improvements:

The Central Iron County Water Conservancy District is committed to:

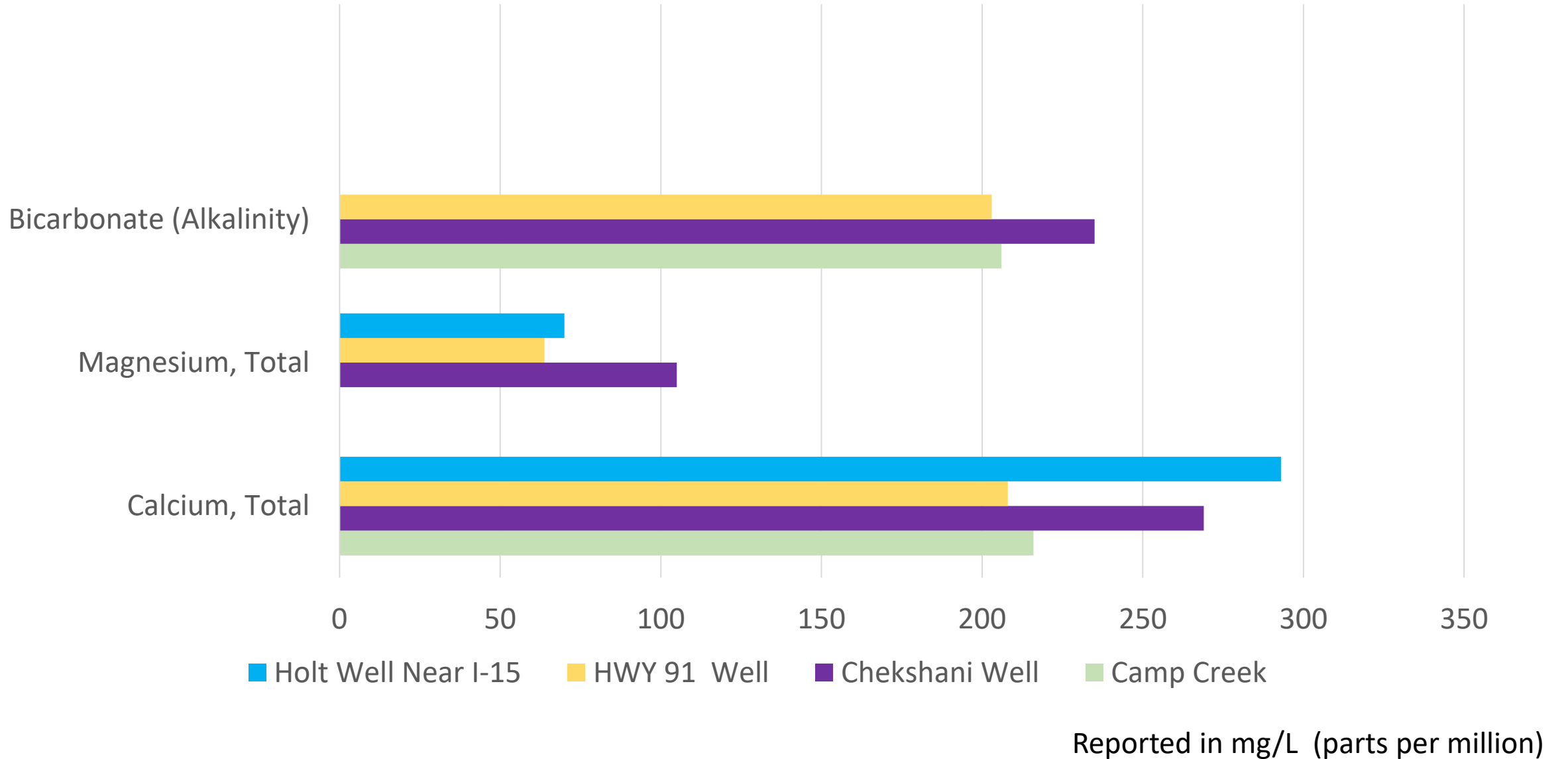
- Help protect public health.
- Provide aesthetically pleasing water.
- Extend the life of plumbing materials and prevent needless economic drains due to corrosion induced distribution and home plumbing leaks and repairs.
- Meet Federal and State regulations.





# Water Chemistry

# Bicarbonate, Magnesium, Calcium



# Hardness, Total as CaCO3

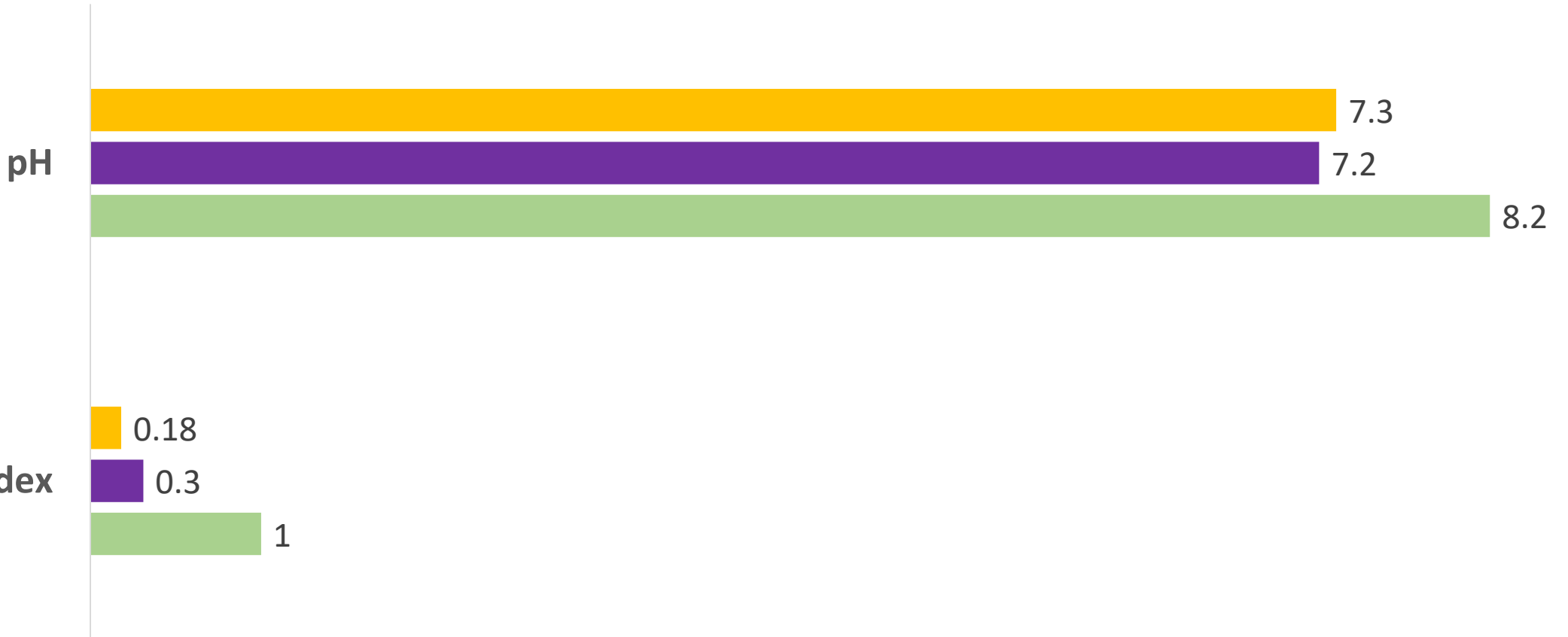
■ Holt Well Near I-15   ■ HWY 91 Well   ■ Chekshani Well



Reported in mg/L (parts per million)

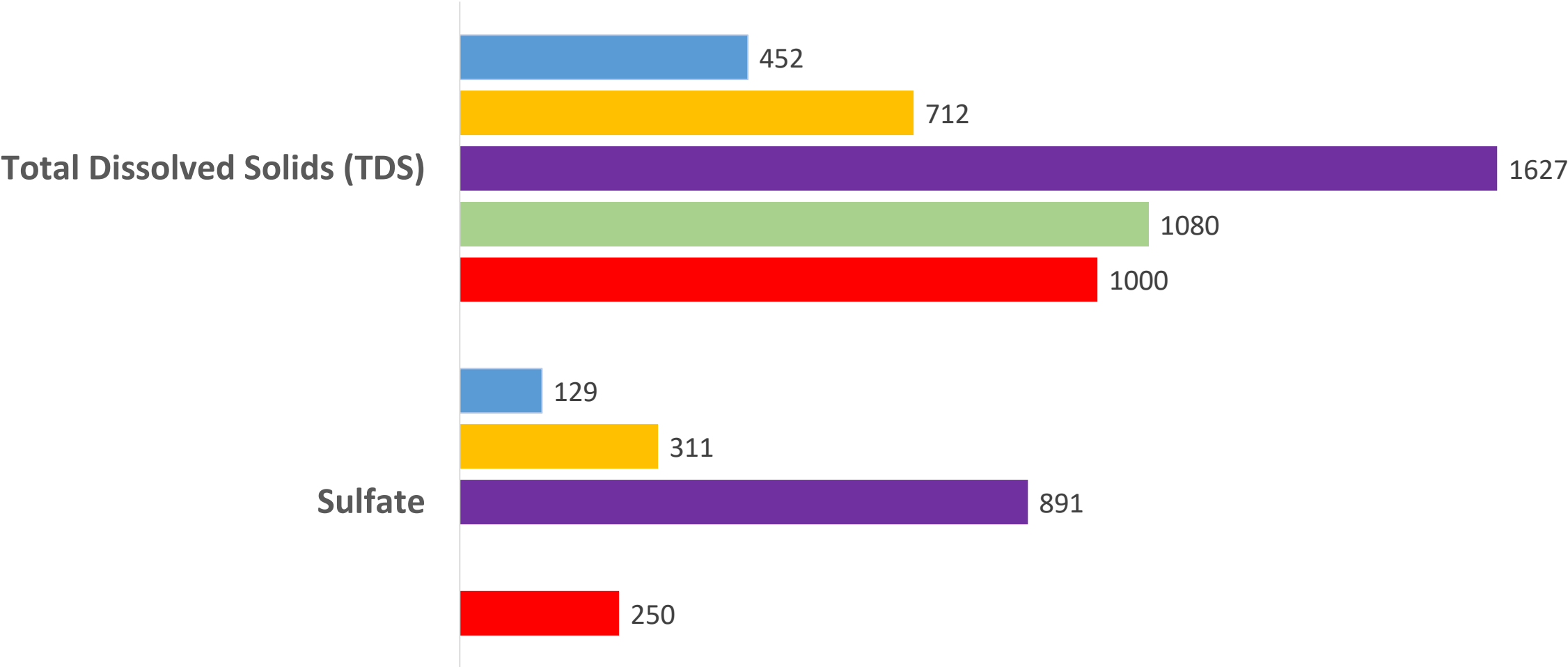
# pH & Langelier Index

■ Holt Well Near I-15   ■ HWY 91 Well   ■ Chekshani Well   ■ Camp Creek

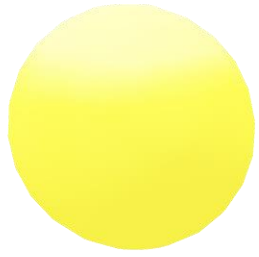


# TDS & Sulfate

■ Holt Well Near I-15   ■ HWY 91 Well   ■ Chekshani Well   ■ Camp Creek   ■ EPA MCL

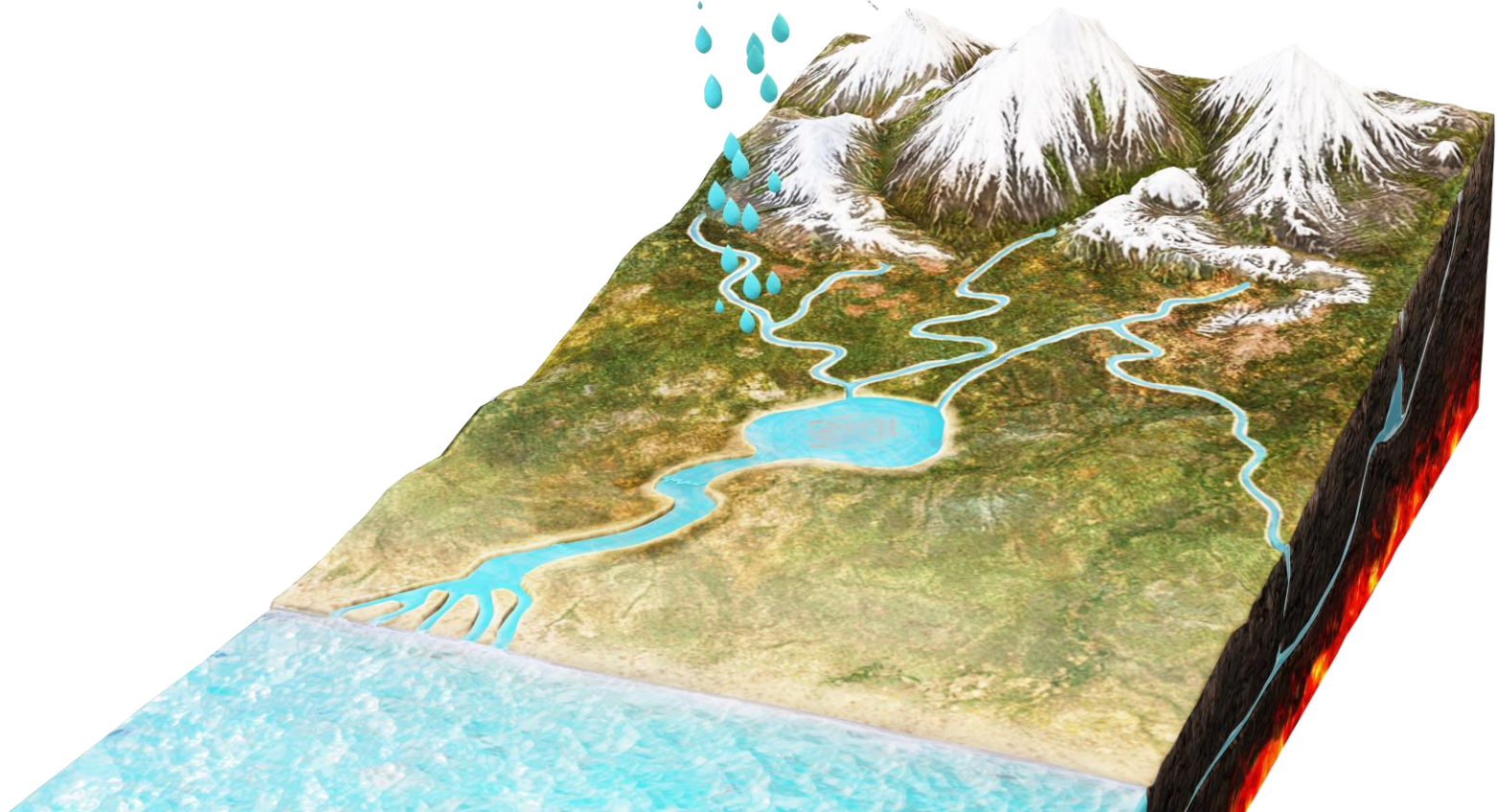


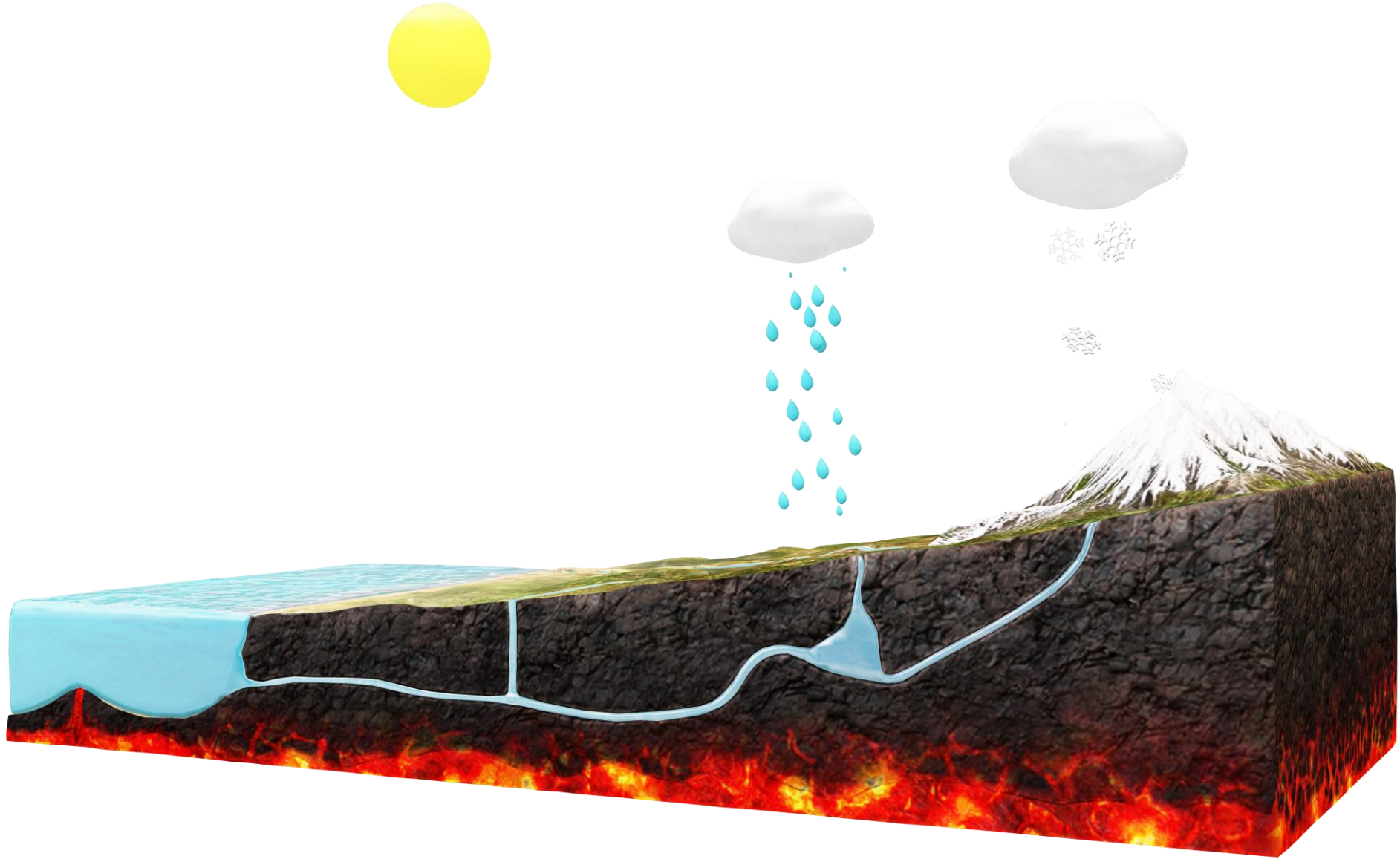
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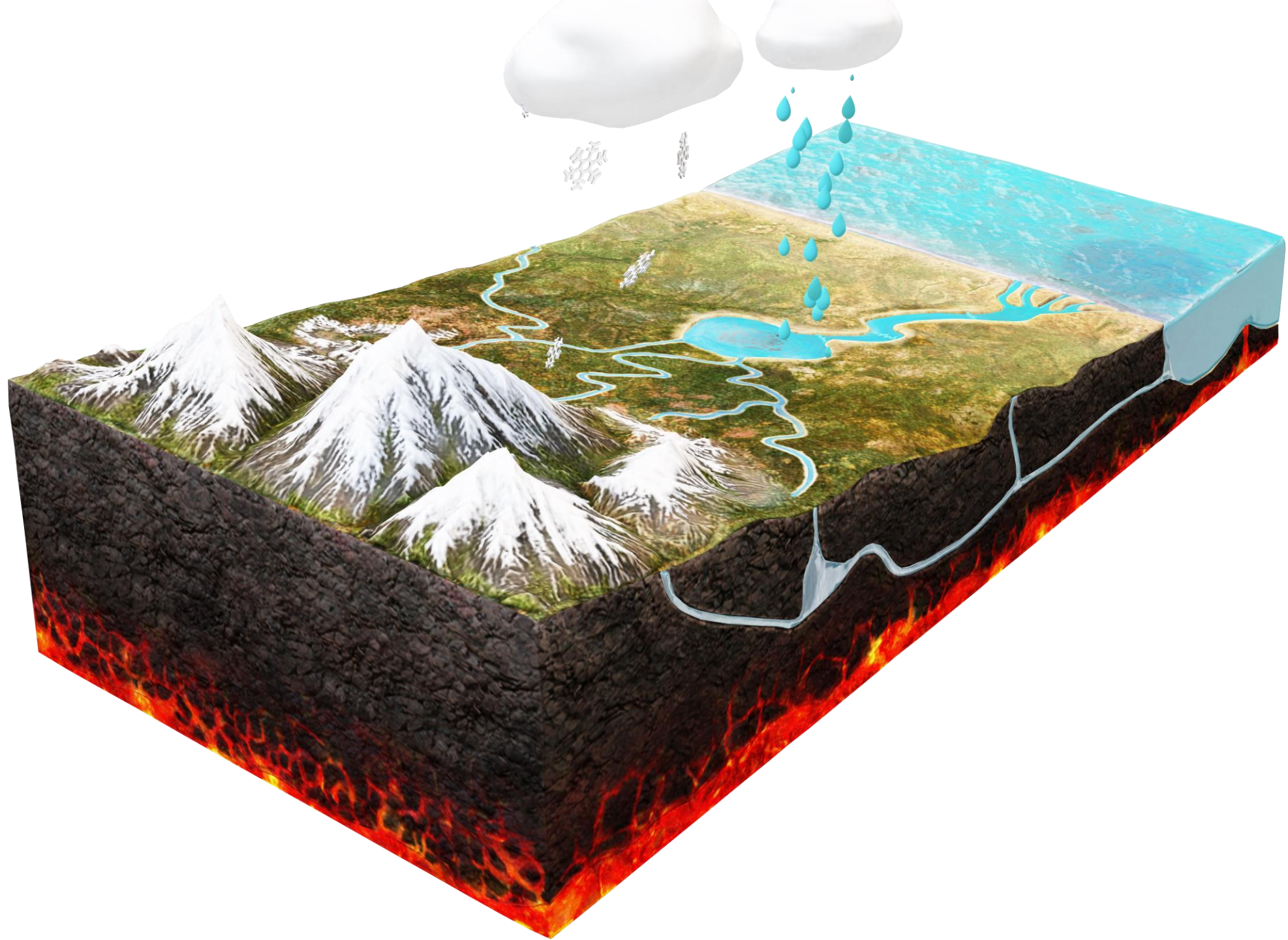


precipitation

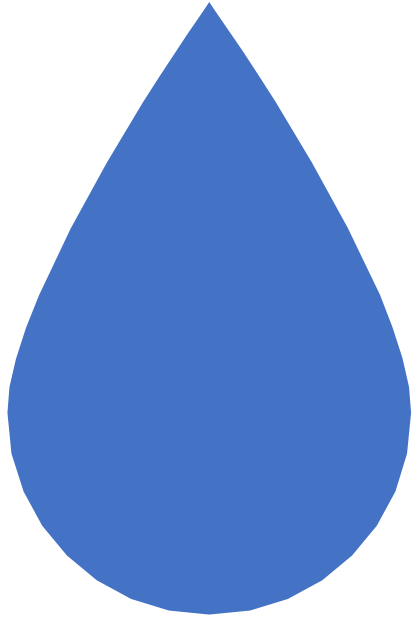
runoff



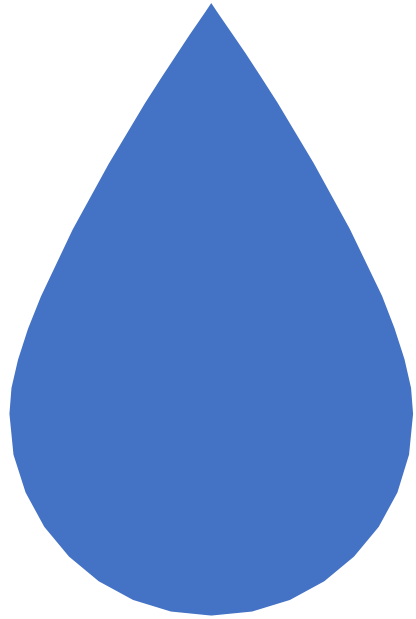




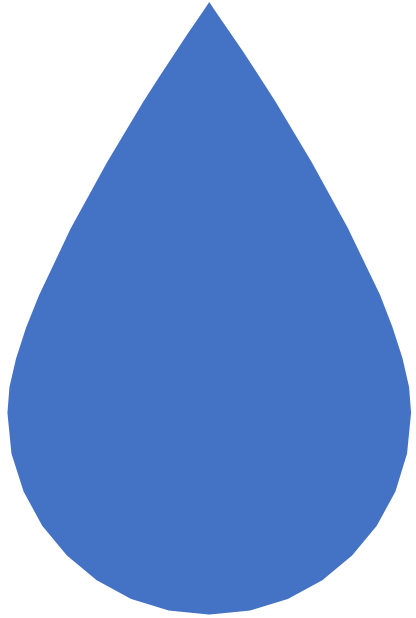
# Proposed Solutions

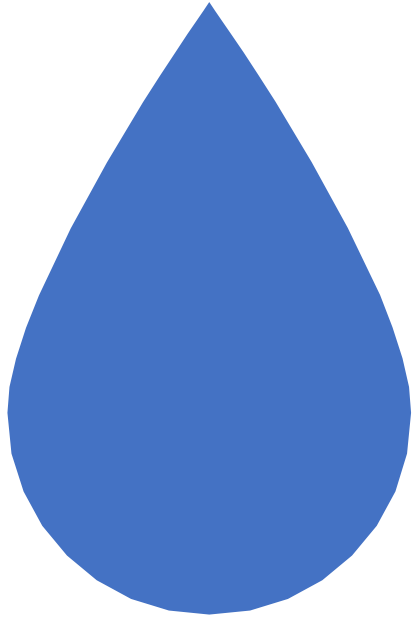


# Proposed Solutions



# Proposed Solutions

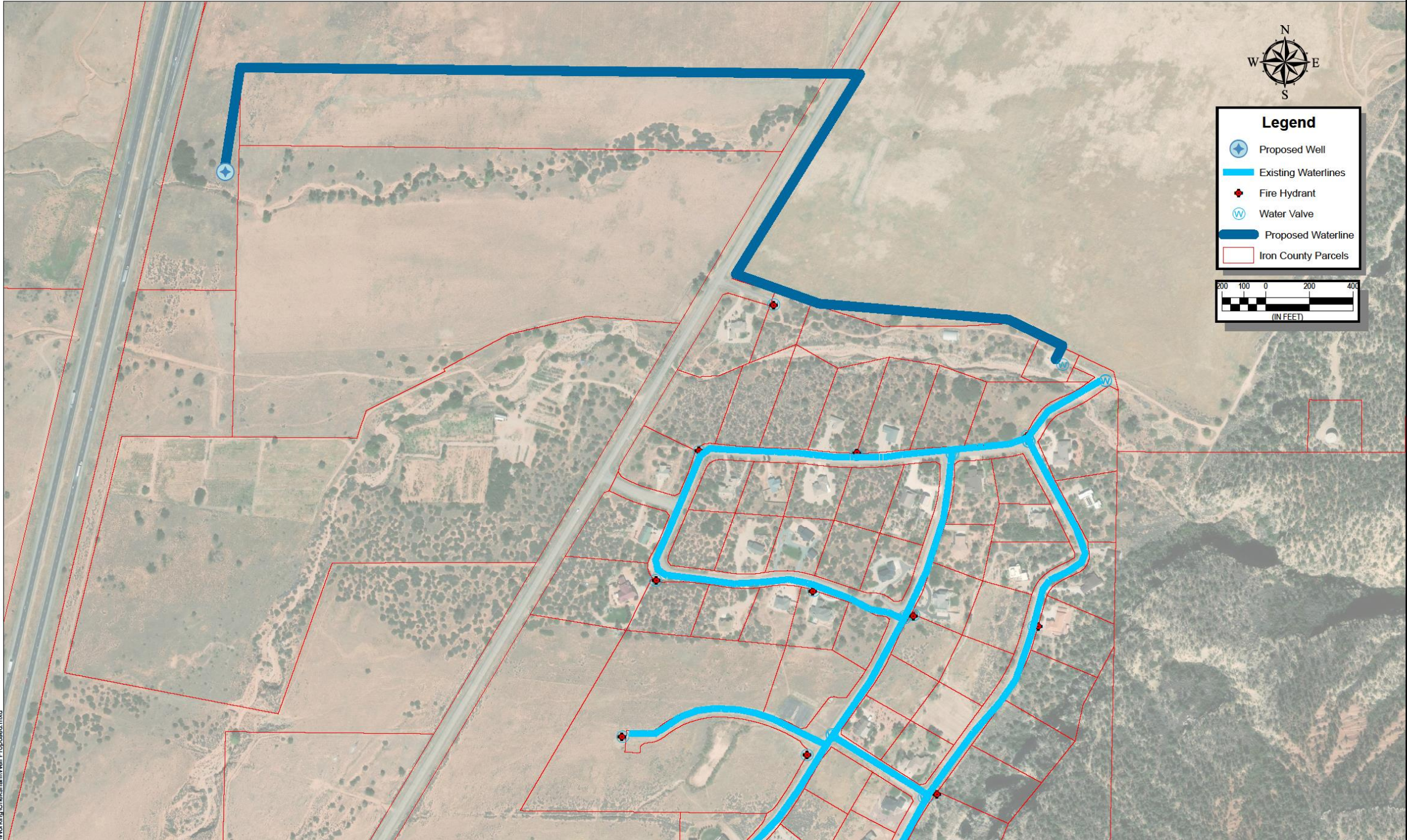










# Proposed Solutions

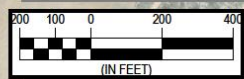
1. New Well
  - Redundant Source
  - Better Quality Water
2. Treatment Facility
  - Pure Water
  - O&M significantly higher
3. Do nothing

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**Legend**

-  Proposed Well
-  Existing Waterlines
-  Fire Hydrant
-  Water Valve
-  Proposed Waterline
-  Iron County Parcels



**THE STANDARD IN ENGINEERING**  
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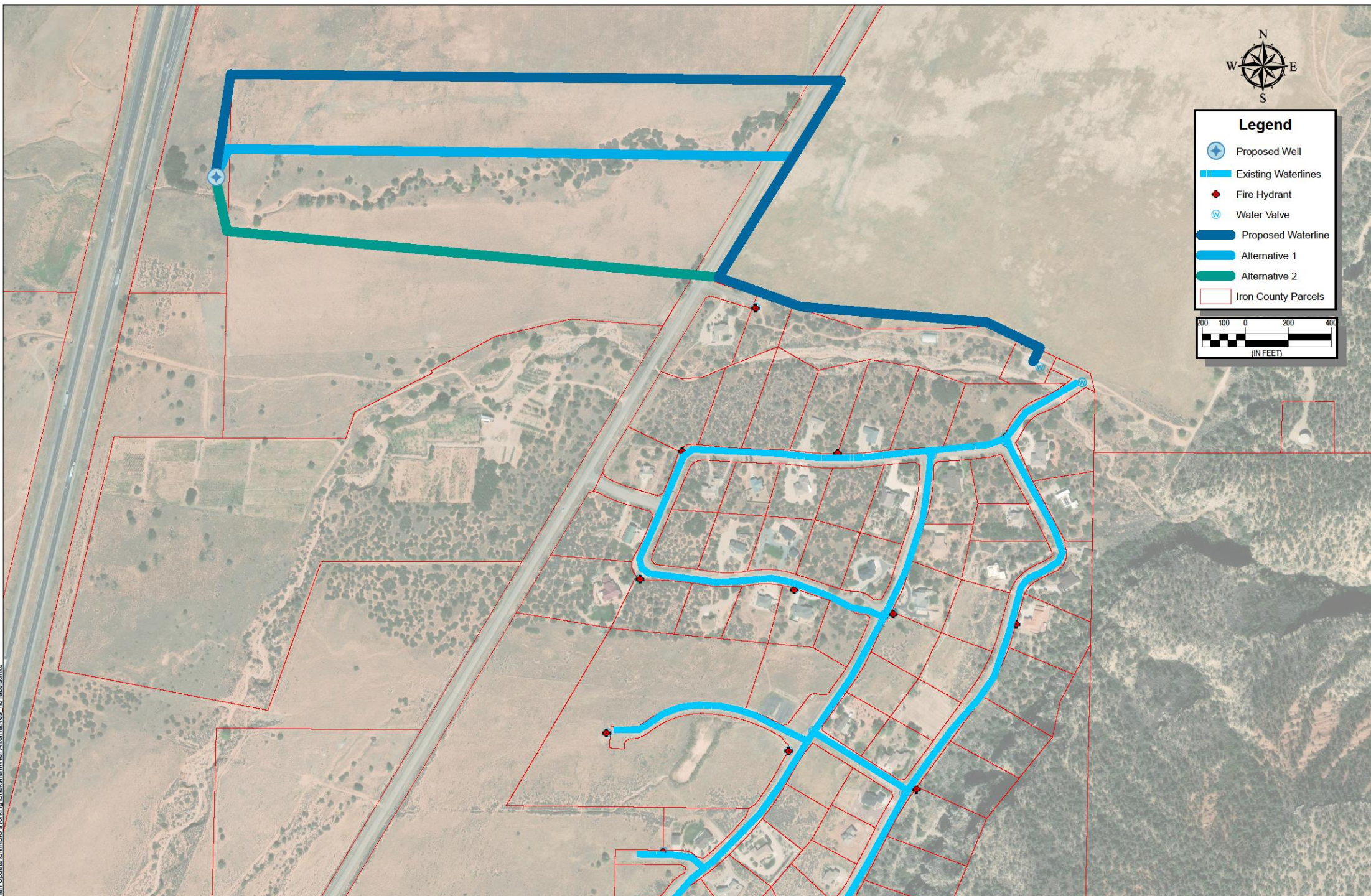
FOR:  
 CIO/CWCD  
 88 E FIDDLERS CANYON RD #A  
 CEDAR CITY, UTAH 84721

CONTACT:  
 PAUL MONROE  
 PHONE: 435.865.9901  
 FAX:









**CENTRAL IRON COUNTY WCD  
 CHEKSHANI WELL CONSTRUCTION  
 KANARRAVILLE, UTAH**

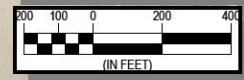
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**Legend**

-  Proposed Well
-  Existing Waterlines
-  Fire Hydrant
-  Water Valve
-  Proposed Waterline
-  Alternative 1
-  Alternative 2
-  Iron County Parcels



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CONTRACT:  
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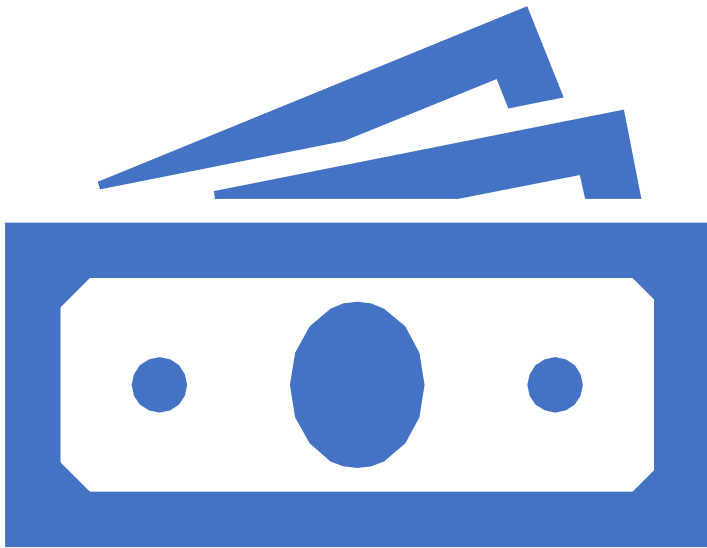
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1		FOR REVIEW	

**CHEKSHANI WELL  
ALTERNATIVES**



Received information from 8 different companies that claim to remove various dissolved solids.

## Water Treatment



# Associated Costs

1. New Well
  - \$500,000
2. Treatment Facility
  - \$500,000
3. Do nothing
  - \$1,000 average cost per year per household (Cost of repairing plumbing fixtures within your home).

# Cost to Each Property Owner



Pay in full

\$7,000

OR

Finance with CICWCD

5% for 10 Years\*

10YR Finance Payment

\$74/month

Average Base Water Bill

\$40/month

\*additional financing options are available for those with need

# What's next?



- **BALLOTS**
- Turn in your ballot, encourage your neighbors to turn in ballots too.
- Ballots should be mailed by January 24<sup>th</sup>. The CICWCD will count the ballots and determine if there is enough participation to move forward.
  
- **IF THERE IS SUPPORT CICWCD WILL:**
- Receive a professional opinion on which option will be best for the subdivision.
- Move forward on Grants and low interest loans
- Expect the service application and contract from CICWCD in April-May, return this to CICWCD with initial payment.
- Expect construction mid-Summer. New water source completed and turned to tap – September/October



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