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

- Bicarbonate (Alkalinity)
- Magnesium, Total
- Calcium, Total

Reported in mg/L (parts per million)
Hardness, Total as CaCO3

- Holt Well Near I-15: 1020 mg/L
- HWY 91 Well: 783 mg/L
- Chekshani Well: 1140 mg/L

Reported in mg/L (parts per million)
pH & Langelier Index

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

**pH**
- Holt Well Near I-15: 7.3
- HWY 91 Well: 7.3
- Chekshani Well: 7.2
- Camp Creek: 8.2

**Langelier Index**
- Holt Well Near I-15: 0.18
- HWY 91 Well: 0.3
- Chekshani Well: 1
- Camp Creek: 1
**TDS & Sulfate**

Reported in mg/L (parts per million)

### Total Dissolved Solids (TDS)
- **Holt Well Near I-15**: 452 mg/L
- **HWY 91 Well**: 712 mg/L
- **Chekshani Well**: 1627 mg/L
- **Camp Creek**: 1080 mg/L
- **EPA MCL**: 1000 mg/L

### Sulfate
- **Holt Well Near I-15**: 129 mg/L
- **HWY 91 Well**: 311 mg/L
- **Chekshani Well**: 891 mg/L
- **Camp Creek**: 250 mg/L
- **EPA MCL**: 1000 mg/L
Proposed Solutions

Drill a New Well
Proposed Solutions
Proposed Solutions

- Do nothing
Proposed Solutions

1. New Well
   - Redundant Source
   - Better Quality Water

2. Treatment Facility
   - Pure Water
   - O&M significantly higher

3. Do nothing
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 24th. 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