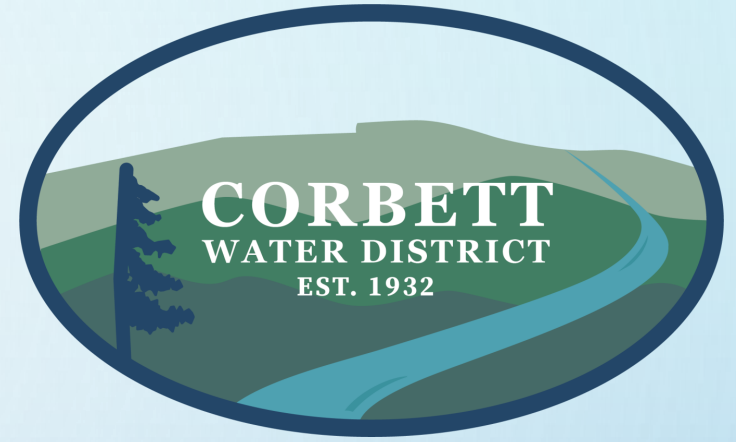


SPECIAL MEETING

JANUARY 20, 2024



STATE OF THE DISTRICT

MANAGER POSITION

- **2004-2021** JOB DESCRIPTION REQUIRED DIST II AND TREAT I CERTIFICATIONS
- **2016** QUALIFIED MANAGER JIM JANS LEAVES WITH OUT MUCH NOTICE
 - FIELD WORKER PROMOTED TO MANAGER POSITION AS HRLY EMPLOYEE
- **2020** FIELD WORKER/MANAGER LEAVES AFTER PROLONGED SICK LEAVE
- **2020-** BOARD CONSULTS WITH SDAO TO HELP WITH HIRING PROCESS.
 - TOM EDWARDS IS HIRED AND STARTS 11/16/2020 – HE IS OFFERED 70K A YEAR.
 - HE PROPOSES A BUDGET FOR 2020-2021 THAT DOES NOT INCLUDE A RAISE FOR MANAGER – BUT DOES INCLUDE INCREASED BENEFITS FOR ALL STAFF – BOARD APPROVES

MANAGER POSITION CONT..

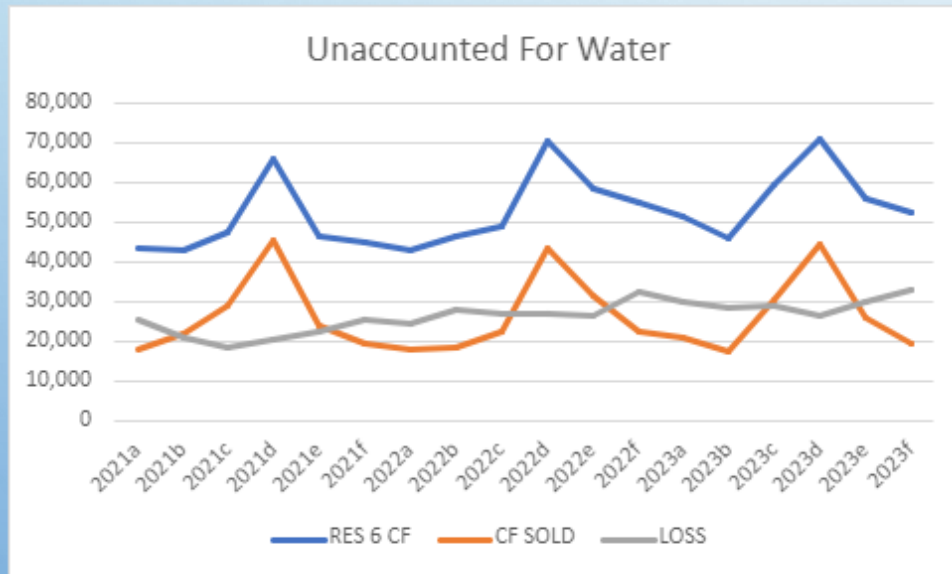
- **06/2021** TOM EDWARDS OFFERS RESIGNATION – 11 MAINLINE BREAKS
- **2021** BOARD WORKS WITH SDAO TO CHANGE MANAGER JOB DESCRIPTION
 - SILVER TSUNAMI – POST COVID
 - SALARY / LOCATION / REQUIREMENTS
- **09/21** STARTS NEW SEARCH FOR MANAGER WITH OUT CERT REQUIREMENTS – FOCUSED ON MANAGERIAL QUALIFICATIONS
- **11/21** OFFERS POSITION TO MANAGER WITH OUT CERTIFICATIONS.
 - **11/18/21** I START AS CLERK
 - **12/15/21** POSITION START DATE
 - **75,000**
 - **12/14/21** HE DECIDES NOT TO TAKE POSITION DUE TO PAY

MANAGER SEARCH CONT...

- **12/2021** – BACK TO DRAWING BOARD
SDAO CONSULTING
- **2/2022**
 - SAME JOB DESCRIPTION
 - POSITION WAGE SCALE INCREASED TO 80-92,000
- **4/2022**
 - 3 APPLICANTS (INCLUDING ME)
- **05/2022**
 - OFFERED POSITION TO CERTIFIED APPLICANT
 - 92,000 / FULL BENEFITS
 - TURNED DOWN OFFER
- **06/2022** – LOOKED AT OTHER OPTIONS
 - ADMIN MANAGER / FIELD MANAGER
 - HR ANSWERS
- **09/2022** HIRED ANA –WITH MENTOR AND ON PROBATION AT 70,000

STATE OF THE DISTRICT

47% UNACCOUNTED FOR WATER



UNUSUALLY FUNDED

- INFRASTRUCTURE BILL
 - CITIES/ COUNTIES/ STATES
- URBAN GROWTH BOUNDARY
 - SDC – SYSTEM DEVELOPMENT CHARGE

STATE OF THE DISTRICT

MASTER PLAN

- **20 YEAR PLAN REQUIRED BY OHA**
 - **2003 PLAN**
 - MANY OF THE PROJECTS COMPLETED
 - **2023 PLAN**
 - UNDERFUNDED – INCOMPLETE
 - SPENDING TIME AND MONEY TO COMPLETE FOR GRANT FUNDING

RATE HISTORY

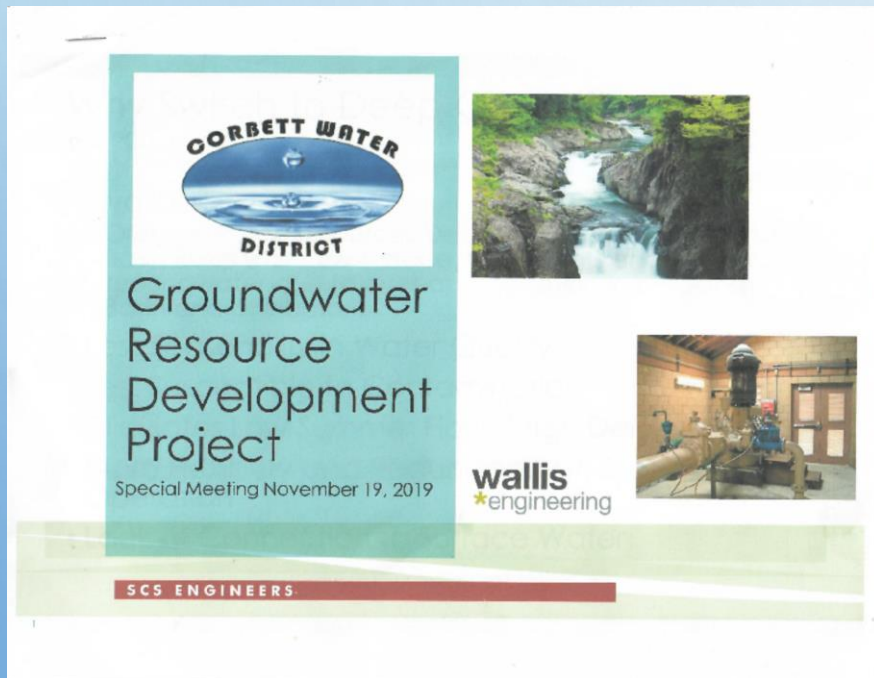
- **2002 WATER RATES DECREASED**
- **2012 BASE RATE INCREASE**
- **2015 FILTER POND CHARGE**
- **2021 WATER AND BASE RATE INCREASE**
- **2023 WATER AND BASE RATE INCREASE**

SINGLE SOURCE

2017 GORGE FIRE - WATERSHED AT RISK

WELL PROJECT 2019-2021

- 2 MANAGERS 2 INTERIM MANAGERS
- DUG TO 1200 FT
- INCONCLUSIVE RESULTS – “NO WATER”
- SPENT 950,000 (250,000 GRANT)
- **9/20** \$830,000 LGIP **9/21** \$163,000



OUR ASSETS

WATER SOURCE

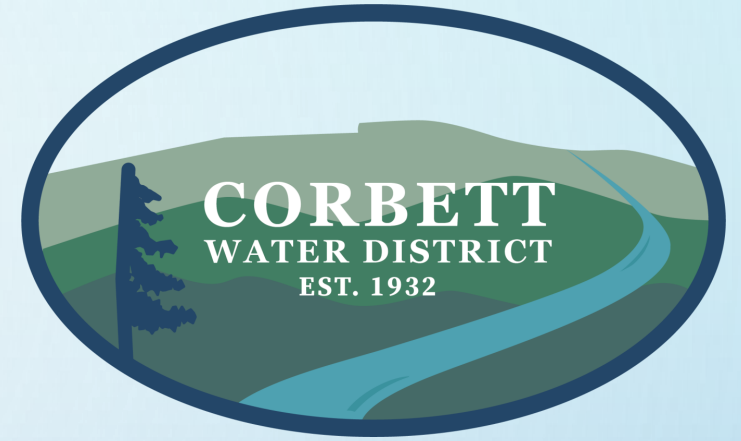
- GORDON CREEK
- LOW TURBIDITY
- SIMPLE TECHNOLOGY – GRAVITY FED

CORBETT RESIDENTS

- VOLUNTEERS BUILT THE WATER DISTRICT IN 1932
- VOLUNTEERS RUN THE DISTRICT - BOARD
- LAND OWNERS – LINES OVER PROPERTY
- CURRENT VOLUNTEERS – HELPING

ASSETS CONTINUED...

- EQUIPMENT
 - NEW MINI-EXCAVATOR
 - NEW DUMP TRUCK
- POWER MOLE
- WELDER
- PIPE CUTTER
- PIPE
- STAFF
 - POWER MOLE – HAD NOT BEEN USED SINCE 2016
 - INTERESTED IN LEARNING – POSITIVE
 - WORKING ON:
 - DATABASE FOR TRACKING MAINTENANCE
 - GIS FOR LOCATING PIPES
 - GRANTS
 - WANT TO MAKE THE SYSTEM BETTER FOR THE NEXT PERSON



EXTREME WEATHER EVENT

INCIDENT ACTION TIMELINE

PURPOSE AND SCOPE

The following slides are an account of the incident, the impact to the District, the District's response and recommendations for improvement.

Reports like these are not generated for every incident but will be triggered when threat conditions impact the processes the District uses to respond to, recover from, or resume business in the face of any threat no matter the size or duration.





after a winter storm blew through Oregon earlier this month, January 22, 2024 (KOIN).



CWD RESPONSE TIMELINE

This summary timeline provides key actions, meetings, and correspondence from Corbett Water District. It is not inclusive of all activities.

Thursday 01/11/24

Weather: Snow starting in the afternoon.

CWD Office: Open and functioning normally

Staffing: In CPR training

Larch Mt reservoir: Level transducer sending inaccurate data (showing tank at 33 ft when capacity is 22 ft)

Friday 01/12/24

Weather: Snowing, cold and windy **Temp: L 17 H 37 Windchill -7 Gusts 53**

CWD Office: Closed

Staffing: Manager and Contractor working in office. End of day 9:00 PM

Larch Mt reservoir: Level Transducer and flow alarms

- ❖ Disable level transducer – flow meter starts to work again

Treatment Plant: Raw flow meter stops working

- ❖ CWD dump truck stuck in snow on the way to treatment plant
- ❖ On-call Utility Worker and contractor unable to correct issue



TREATMENT PLANT ACCESS

Attempted to drive to the treatment plan, but both trucks got stuck in the snow. Continued on foot in the heavy snow and wind at 6:30 PM to access the treatment plant.





RESERVOIR WATER LEVEL

Blue line indicates water level. As you can see the SCADA (supervisory control and data acquisition) shows high variance.

RESPONSE TIMELINE CONTINUED

Saturday 01/13/24

Weather: Blizzard conditions – icy roads and windy *Temp: L 7 H 13 Windchill -4 Gusts 45*

CWD Office: Closed. No power or heat

Staffing: 2 staff with no home power; 1 staff iced in, but with power; contractor with no power or water

Staffing: Manager and Utility Worker report to work

CWD pickup truck stuck in snow on the way to treatment plant

Cabbage Hill reservoir issues

- ❖ Small generator taken by on-call staff to thaw vault
- ❖ Intake line to generator popped off (line frozen)
- ❖ Generator taken back to office to heat up
- ❖ 2nd generator taken back up to reservoir, but vault could not be thawed (too cold)

Treatment Plant

- ❖ Water level going down (to 13 ft from a normal of 18 ft)

Larch Mt reservoir telemetry power lost

- ❖ Large amount of water loss indicated
- ❖ No visibility to level because of transducer issue

Car spotted in watery ditch on Pounder Rd – identified as a Main break

- ❖ Water running across the road, ice everywhere and a “puddle” of water under the car
- ❖ Break #2 theory and looking for valve on Evans Rd
- ❖ At the CWD office, looked in the Valve book to identify location but the book is incomplete
- ❖ Looked for valve on Evans but couldn’t find it
- ❖ Turned off water to customers on Evans and Pounder.

Communication: IVR message @ 5:49 PM for large water loss

Communication: Facebook post @ 5:54 PM (large, undetermined water leak)

Communication: Facebook post @ 9:15 PM (Evans, Pounder, Ellis without water)



POUNDER ROAD ISSUE

Car spotted in watery ditch
Saturday night.



RESPONSE TIMELINE CONTINUED

Sunday 01/14/24

Weather: Very icy roads and windy *Temp: L 13 H 14 Windchill -3 Gusts 53*

CWD Office: Closed. Diesel generator working, but lights flickering. Phones & internet not working

Staffing: Manager, Clerks and Utility workers all report to work

Cabbage Hill reservoir issues

- ❖ Reservoir almost empty
- ❖ Utility workers attempt to thaw vault

Communication: IVR message @ 12:00 PM to 61 people affected without water on Evans and Pounder

Larch Mt reservoir power restored

- ❖ Water loss determined to be a frozen intake valve, causing overflow
- ❖ Valve throttled to reduce overflow

Treatment Plant level issues

- ❖ Reservoir level was 7.4 at its lowest at 5 PM

Communication: Facebook post @ 9:30 PM (Large water leak determined to be overflow at reservoir)

On-call Utility Worker called out for customers needing their meters turned off (until 12:30 AM Mon)



LARCH MT RESERVOIR

Overflow from the reservoir into
ravine. Due to soil saturation,
additional erosion occurring.

RESPONSE TIMELINE CONTINUED

Monday 01/15/24

Weather: Icy roads and very windy *Temp: L 14 H 19 Windchill -5 Gusts 39*

CWD Office: No power or heat

Staffing: Manager, Clerks and Utility workers all report to work

Larch Mt reservoir frozen

- ❖ Valve throttled again to reduce overflow
- ❖ Thawed with heater in vault. Tarping added to prevent re-freeze
- ❖ Reservoir back on line @ 2:40 PM

Communication: IVR message @ 11:00 AM to Cabbage Hill reservoir customers for Boil Water

Communication: Facebook post @ 11:30 AM (Evans, Pounder, MacGinnis & Ellis without water)

Pounder Rd water issue

- ❖ Water still flowing
- ❖ Water tested for chlorine (negative result)
- ❖ Water turned back on for Pounder and Evans Rd

Cabbage Hill reservoir thawed

- ❖ Slowly refilling

Communication Facebook post @ 7:00 PM (all customers should have water)



ICED ROADS

No matter what vehicle driven – even if chained up, roads were treacherous

RESPONSE TIMELINE CONTINUED

CWD Office: Power (and heat) on and off all week

Tuesday 01/16/24

Weather: Windy w/ freezing rain; very icy roads, downed trees & power lines **Temp: L 15 H 18 Windchill 0 Gusts 92**

Communication: IVR message @ 10:54 AM – all customers should have water

Communication Facebook post @ 2:21 PM (Water available at CWD office)

Wednesday 01/17/24

Weather: Windy w/ freezing rain; very icy roads, downed trees & power lines **Temp: L 16 H 40 Windchill 6 Gusts 66**

Treatment Plant losing water (1333 GPM)

Cabbage Hill reservoir - no cycling

Larch Mt reservoir overflowing again (frozen open for 2nd time)

Communication Facebook post @ 1:04 PM (lab results for water testing delayed. Continue boil water)

Communication: IVR & Facebook messages @ 3:00 PM – Boil Water notice lifted

Thursday 01/18/24

Weather: Windy with icy roads, downed trees & power lines **Temp: L 26 H 40 Windchill 10 Gusts 38**

Communication Facebook post @ 10:00 AM (Office closing early)

Power out at Loudon & Larch Mt reservoirs

Cabbage Hill and Mershon reservoirs not cycling normally

Cabbage Hill reservoir frozen - water level low

Communication Facebook post @ 2:43 PM (Water available at the CWD office)

Communication Facebook post @ 3:20 PM (Mult Co. water for animals/livestock, economic, health, etc.)

Friday 01/19/24

Weather: Windy w/ freezing rain; icy roads, downed trees & power lines **Temp: L 29 H 31 Windchill 23 Gusts 55**

Cabbage Hill reservoir valve set for small flow to overflow to keep water flowing

Field staff throughout the day performing meter shut offs per customer requests (frozen pipes)

CABBAGE HILL RESERVOIR GENERATOR

The small generator used to try
and thaw the Cabbage Hill
reservoir – frozen.



RESPONSE TIMELINE CONTINUED

Saturday 01/20/24

Weather: Roads icy, but beginning to melt on Sunday **Temp: L 31 H 32 Windchill 23 Gusts 47**

CWD Office: Closed. No power

Staffing: Manager, Utility Workers and Contractor report to work on weekend.

Gas refilled for small generators on Larch Mt and Cabbage Hill reservoirs

Sunday 01/21/24

Weather: Roads icy, but beginning to melt on Sunday **Temp: L 32 H 36 Windchill 24 Gusts 38**

CWD Office: Closed. Power restored!

Staffing: Manager, Utility Workers and Contractor report to work on weekend.

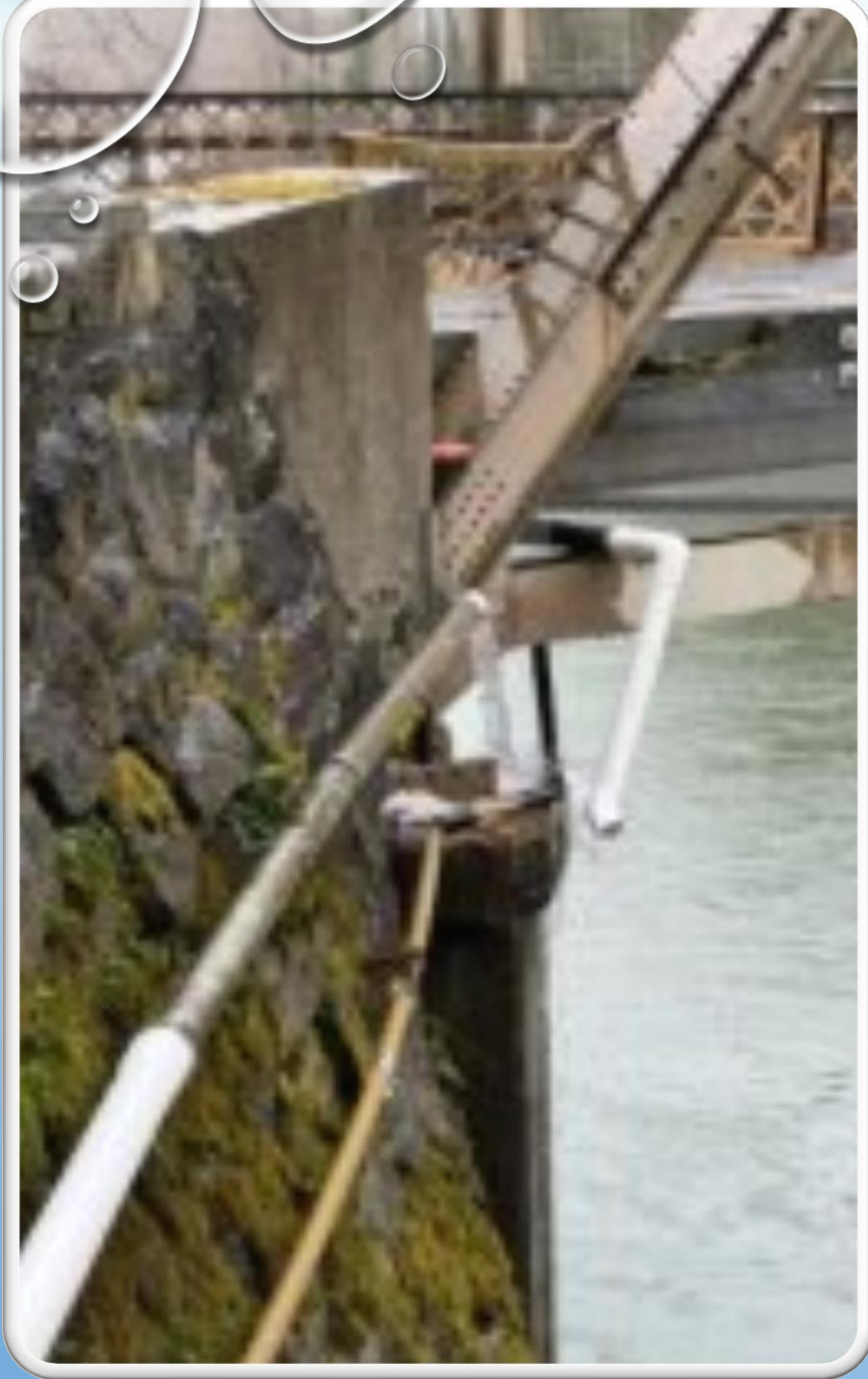
Mershon reservoir

- ❖ Water level extremely low
- ❖ 50 GPM flowing in / 200 GPM flowing out
- ❖ Gate valve frozen – Opened and vented the water line (1.5 miles of pipe) to refill

Communication Facebook post @ 8:00 AM (Major leak between Mershon and lower Bell grade)

Communication: IVR message @ 10:00 AM – Boil water notice to all on Mershon Rd customers

Leak discovered at Start St bridge to Yoshida's



2" CUSTOMER WATER LINE BREAK

Customer line broke and apparently froze (they reported they had been without water for 3 days). Photo is when the pipe thawed and was flowing at 160 GPM.

RESPONSE TIMELINE CONTINUED

Monday 01/22/24

Weather: Roads icy, but beginning to melt on Sunday **Temp: L 37 H 48 Windchill 29 Gusts 49**

CWD Office: Open

Staffing: All staff report to work.

Staff checking meters for leaks with software. A few large leaks found (10 GPM) and meter shut off.

Tuesday 01/23/24

Weather: Roads icy, but beginning to melt on Sunday **Temp: L 38 H 50 Windchill 30 Gusts 23**

CWD Office: Open

Staffing: All staff report to work.

Staff responding to customer inquiries

Wednesday 01/24/24

Weather: Roads icy, but beginning to melt on Sunday **Temp: L 40 H 57 Windchill 39 Gusts 35**

CWD Office: Open

Staffing: All staff report to work.

Communication: IVR message @ 10:00 AM – Boil water notice lifted

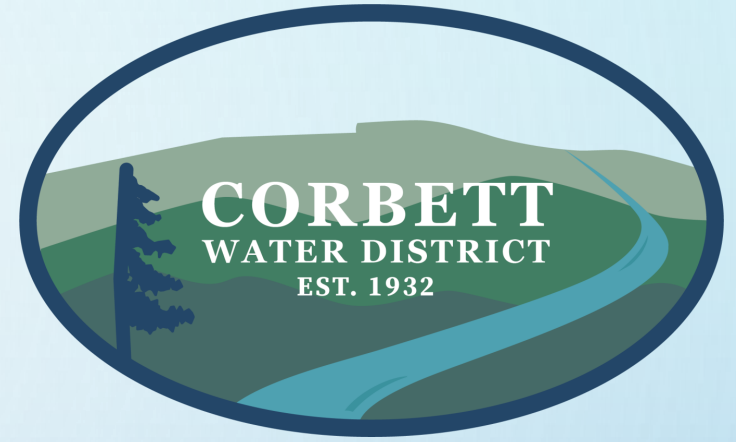
Communication: Facebook post @ 10:00 AM – Boil Water notice lifted

Thursday 01/25/24

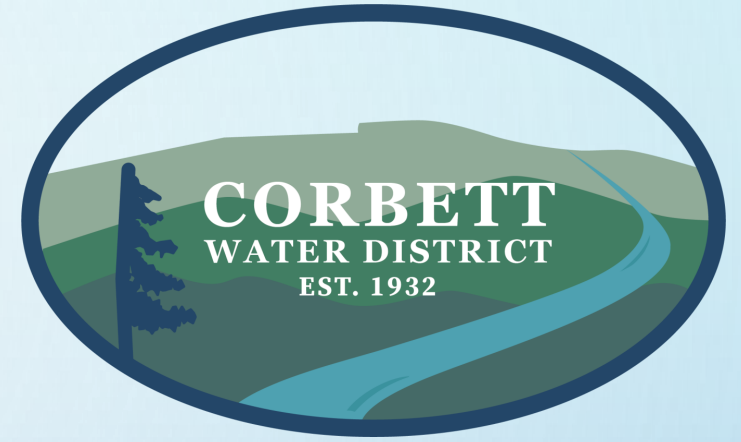
Larch Mt reservoir: Replaced faulty level transducer



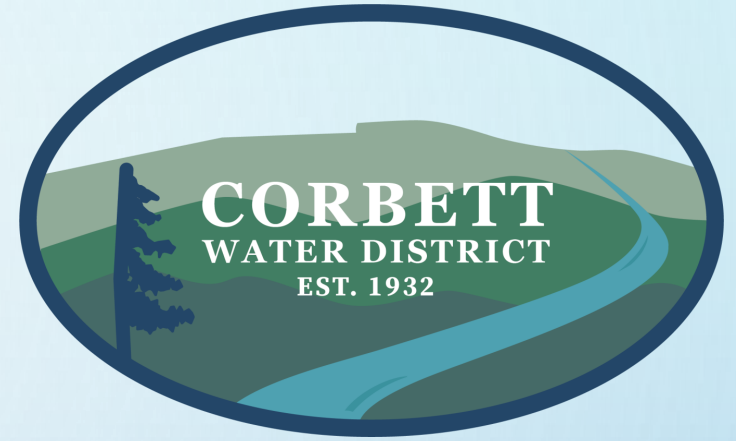
With trees falling over, heavy snows and icy conditions over the past several days, utility workers, like Alivia Pence, struggled to keep the taps on in Corbett, Oregon. (Credit: Steve Young)



AFTER ACTION DATA COLLECTION & ASSESSMENT



AFTER ACTION FOLLOW UP AND NEXT STEPS



PUBLIC COMMENT

LIMIT: 3 MINUTES

To allow time for all anticipated comments, questions may not be responded to during the meeting. If you require a response, please contact the office. Thank you for your participation!