



**FRUITA**  
COLORADO

## AGENDA ITEM COVER SHEET

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**TO:** FRUITA CITY COUNCIL AND MAYOR

**FROM:** KIMBERLY BULLEN, PUBLIC WORKS DIRECTOR

**DATE:** NOVEMBER 5, 2024

**AGENDA TEXT:** PRESENTATION – City Council presentation of the 2024 American Public Works Association (APWA) Colorado Chapter Small Community Sustainability Project Award to the City of Fruita Public Works Department for the H<sub>2</sub>S Mitigation Project.

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### BACKGROUND

The City of Fruita operates a 2.33 MGD Wastewater Reclamation Facility (WWRF) with approximately 95% of the City's wastewater flow delivered to the WWRF via a 2-mile force main before discharging to a manhole one mile away and transitioning to a 24" PVC gravity line. Seventeen manholes on this terminal section of the collection system were severely damaged by hydrogen sulfide (H<sub>2</sub>S)-induced corrosion over their 15-year lifespan.

Initially, nine alternatives were identified and screened before narrowing down to three feasible H<sub>2</sub>S mitigation approaches to conduct a more detailed assessment. Collaboratively with the engineering team from Tetra Tech, the City's Construction Manager at Risk (CMAR) and Hensel Phelps, the City chose to mitigate the H<sub>2</sub>S issue via gravity sewer ventilation, foul air treatment and manhole replacement alternative using FRP manholes that are resistant to H<sub>2</sub>S induced corrosion.

The City utilized the Construction Manager at Risk (CMAR) approach that provided a collaborative and effective delivery method for this project with a tight schedule and operational constraints. By utilizing the CMAR method, the City had input from the design engineers and construction managers during the design and construction phases of the project. This approach provided the opportunity for schedule reduction, improved cost certainty, and ultimately reduced the City's risk.

The American Public Works Association Colorado Chapter awarded the City of Fruita Public Works Department the 2024 Small Community Sustainability Award for the H<sub>2</sub>S Mitigation Project and the Fruita City Council would like to recognize the Public Works Department with this award.