

An Overview of Residential Development in Carson City, Nevada

July 2021

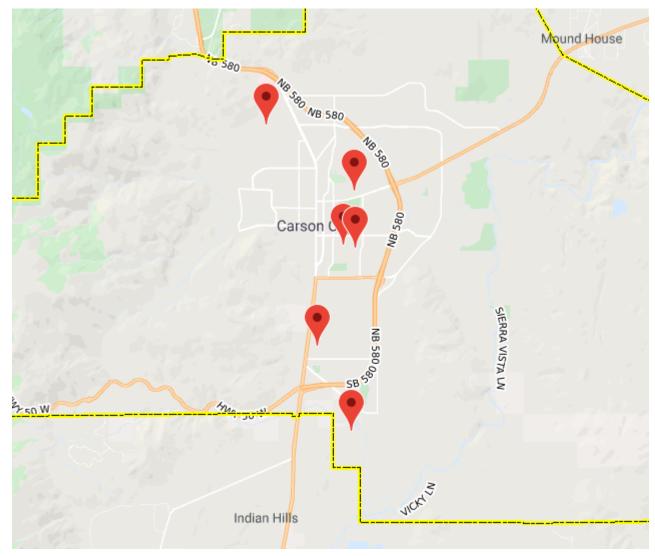
Community Development Department

<u>New Housing</u> <u>Starts</u>

 Single Family Residential 	<u>2019</u> 97	<u>2020</u> 176	<u>2021 *</u> 79
Multi-Family Residential	282	0	8
• TOTAL	379	176	87

* Through June 30, 2021

Where is the housing under construction?



ARBOR VILLAS (147 attached SFR)

Front Elevation





Arbor Villas

Location: Northside Little Lane



ARBOR VILLAS (147 attached SFR)

Location: Northside Little Lane





JACKSON VILLAGE (41 SFR lots)



Location: Northside Eagle Station Lane





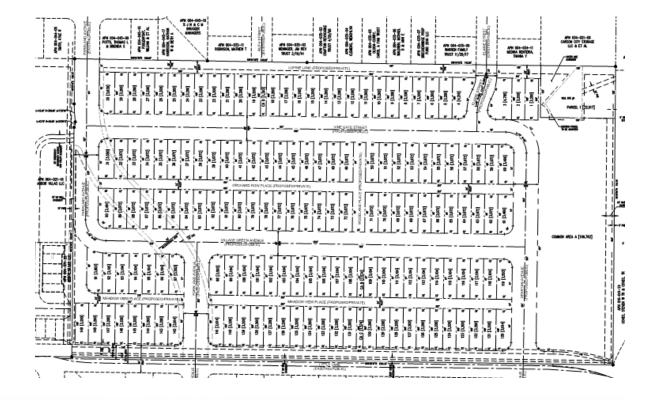
JACKSON VILLAGE (41 SFR lots)

Location: Northside Eagle Station Lane



LITTLE LANE VILLAGE (149 lots)

Location: Northside Little Lane





LITTLE LANE VILLAGE (149 lots)

Location: Northside Little Lane







MILLS LANDING (142 units)





Location: Westside State Street

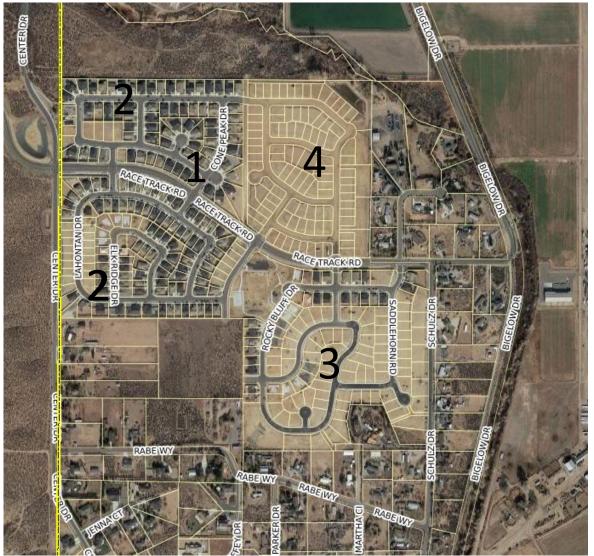


MILLS LANDING (142 units)

Location: Westside State Street



SCHULZ RANCH PHASES 1-4 (416 lots)



Location: Westside Center Drive







SCHULZ RANCH PHASE 4 (101 lots)

Location: Northside Race Track Road





SILVER OAK (1177 lots)

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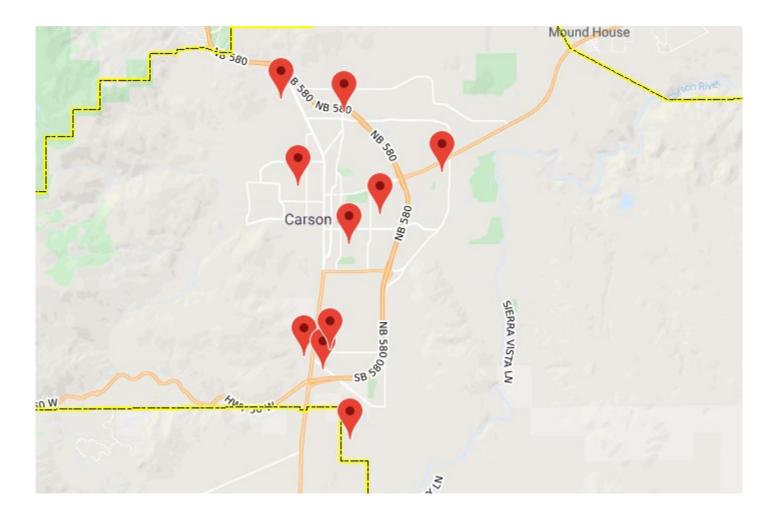
Location: Westside N Carson Street

SILVER OAK Phase 23B (29 Lots)





Where is the site under construction in anticipation of building houses?



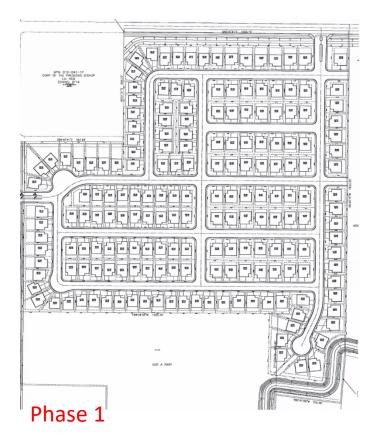
ANDERSON RANCH (203 lots)

Location: Westside Mountain Street



BLACKSTONE RANCH – PHASE 1 (189 units)/PHASE 2 (204 units)

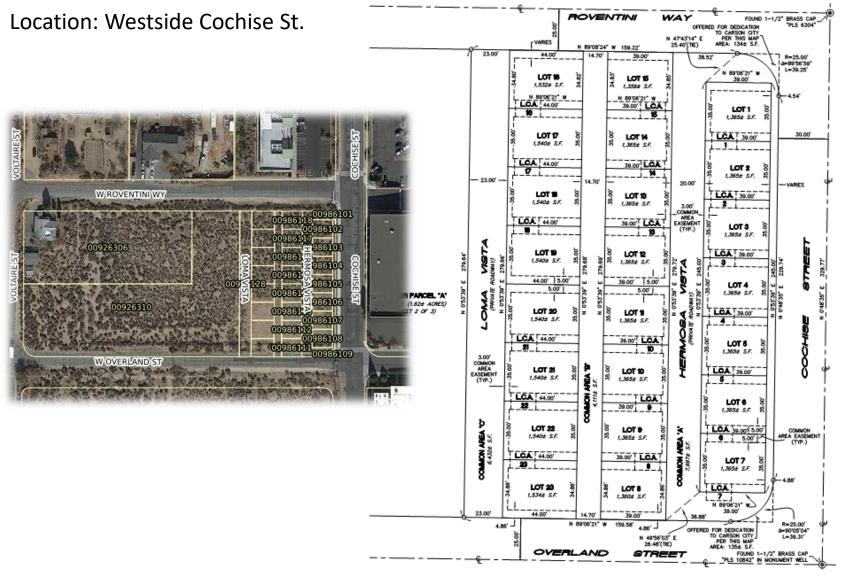
Location: North of 5th Street



Phase 2



CLEARVIEW RIDGE (73 lots)



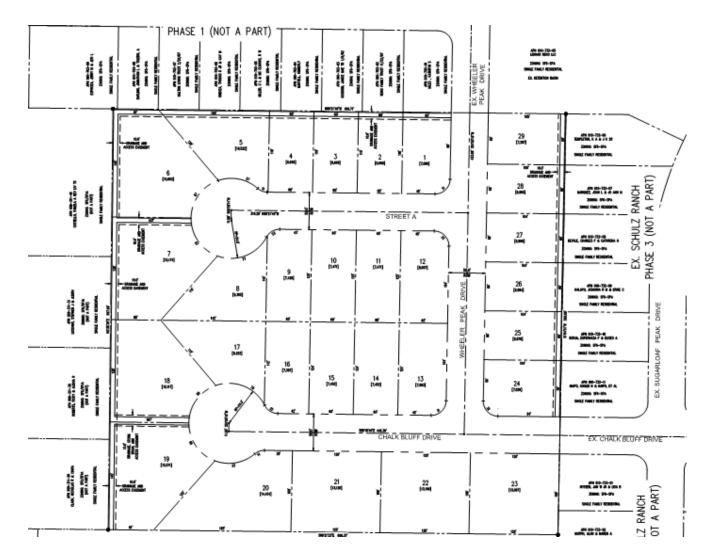
EMERSON COTTAGES (37 lots)

Location: Eastside Emerson Drive



SCHULZ RANCH – PHASE 5 (29 lots)

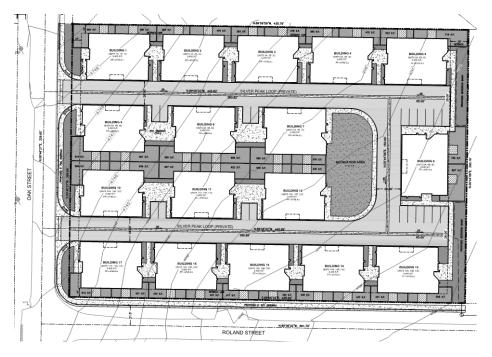
Location: North of Rabe Way



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SILVER CREST CONDOMINIUMS (51 lots)

Location: Northeast of the corner of Oak Street and Roland Street





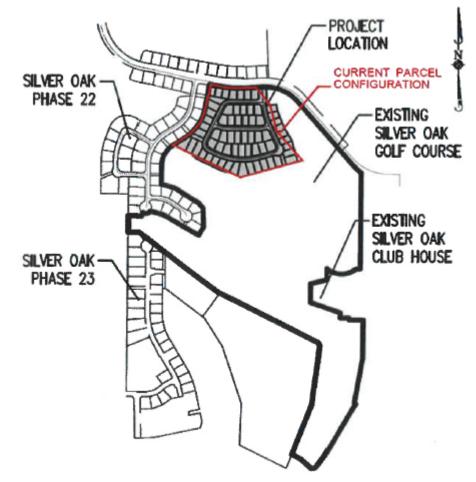
SILVER VIEW TOWNHOMES (34 LOTS)

Location: Northwest corner of Clearview Drive and Silver Sage Drive



SILVER OAK Phase 24 (64 lots)

Location: Southside Silver Oak Drive



BROWN STREET APARTMENTS (90 units)

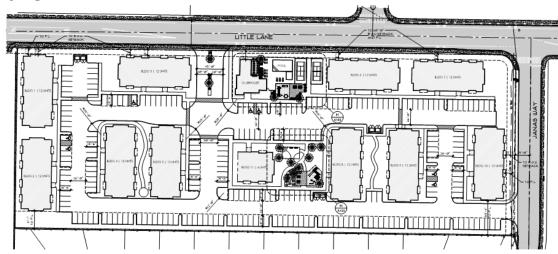
Location: Westside Brown St.





LITTLE LANE APARTMENTS (140 units)

Location: Southside Little Lane







QUESTIONS?

THANK YOU!!!!



Carson City Water and Wastewater Capacity Analysis Update

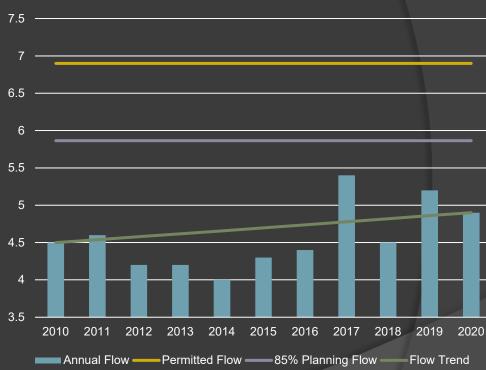
Board of Supervisors July 15, 2021



Wastewater Treatment Capacity

- Currently treating approximately 5 mgd
 - Influenced by growth, moisture, water rates.
- Water Resource Recovery Facility permitted for 6.9 mgd
- Flows trending upwards at approximately 0.9%
- Facility planning for next upgrade required at 85% of permitted flow rate
- Reclaimed Master Plan update in final review

Carson City WRRF Flow (million gallons per day)



2



Conveyance System Capacity

- Collection system Master Plan updated in 2017
 - Model review underway
- Buildout based model
 Planned significant
 developments included
- CIP's identified for existing and future condition deficiencies

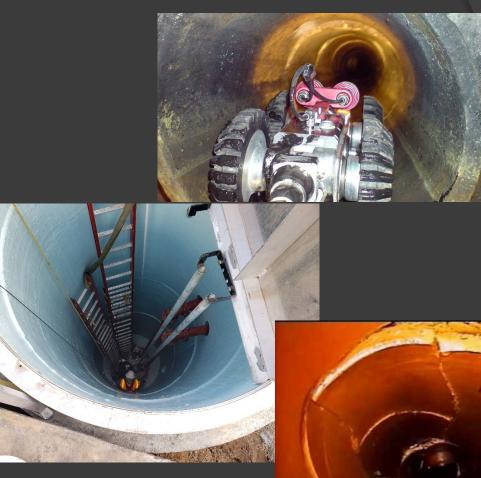






Asset Management and Projects

- Collection system video inspection
 - Provides condition-based ranking to assist in CIP prioritization
- Facility Condition Assessment recently completed
- WRRF Electrical upgrades
- Lift Station upgrades



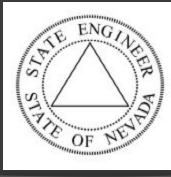


Ground Water Basins and Sustainability

 Perennial Yield: The maximum amount of groundwater that can be salvaged each year over the long term (think 100's of years) without depleting the groundwater reservoir.

• Basins are over allocated but not over pumped

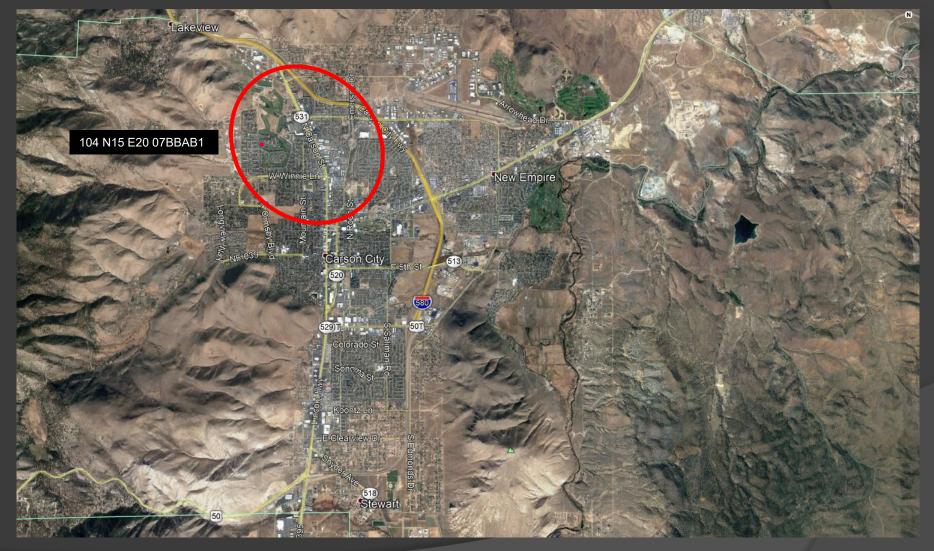
- Eagle Valley Yield of 9,000 AFA vs. Pumped 4-5,000 AFA
- Dayton Valley Yield of 8 to 20,000 AFA vs. Pumped 8-10,000 AFA
- Carson Valley Yield of 49,000 AFA vs. Pumped 30 -35,000 AFA
- Regulated by the State Engineer's (SE) Office. Data tracked by USGS.



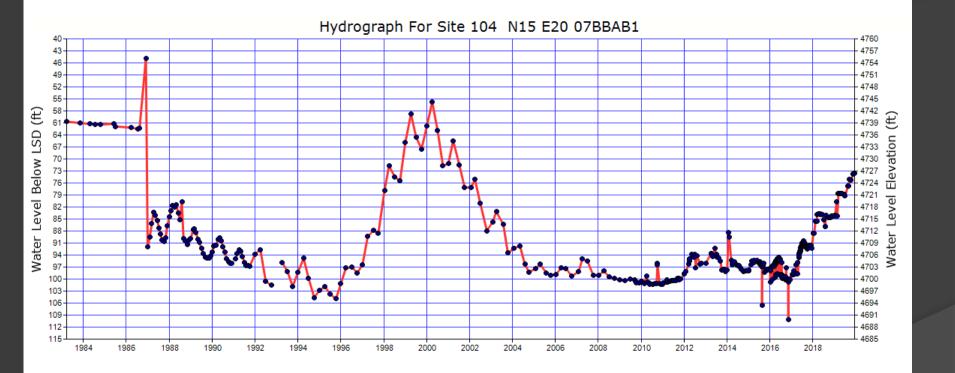




Northwest Eagle Valley



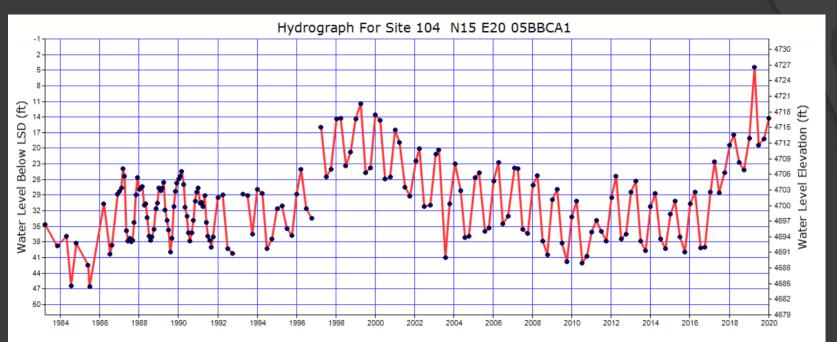


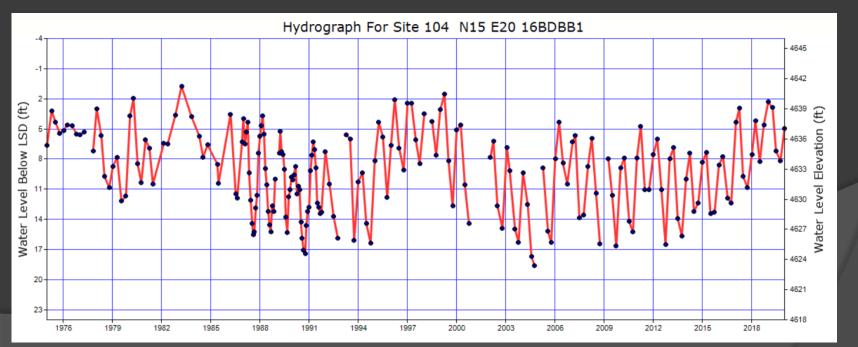




Central Eagle Valley

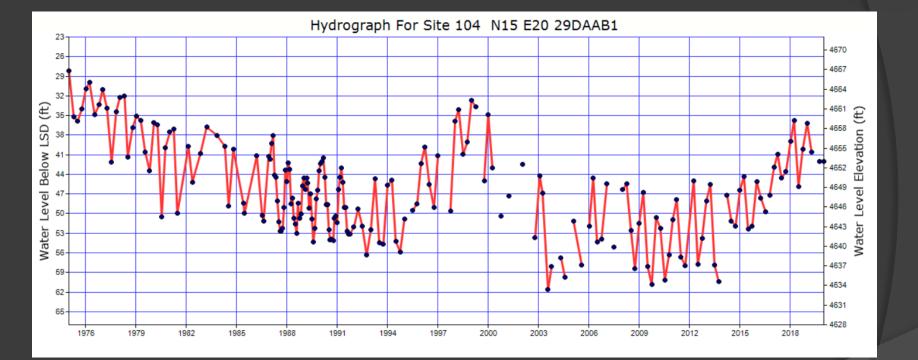






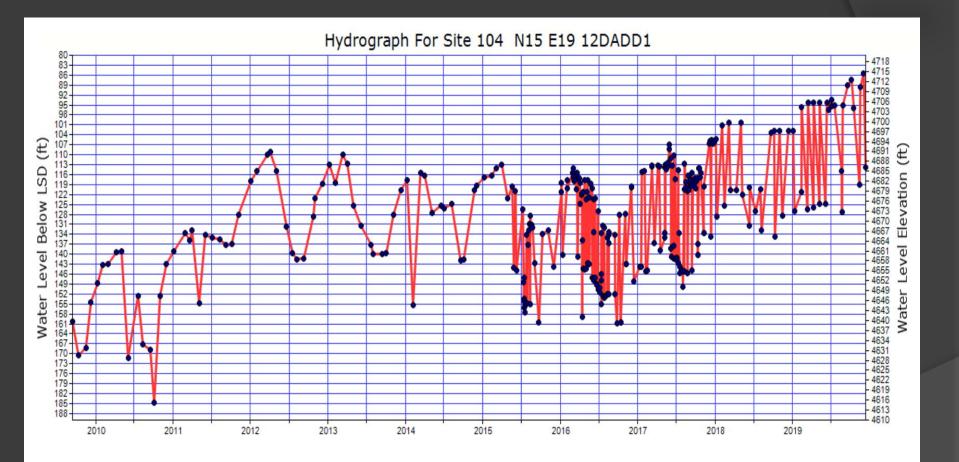








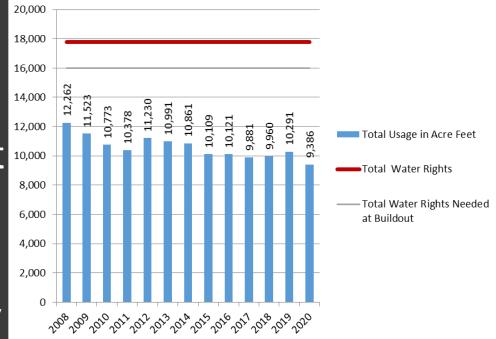
Well 3 GW Levels





Usage/ Max Day Demand Summary

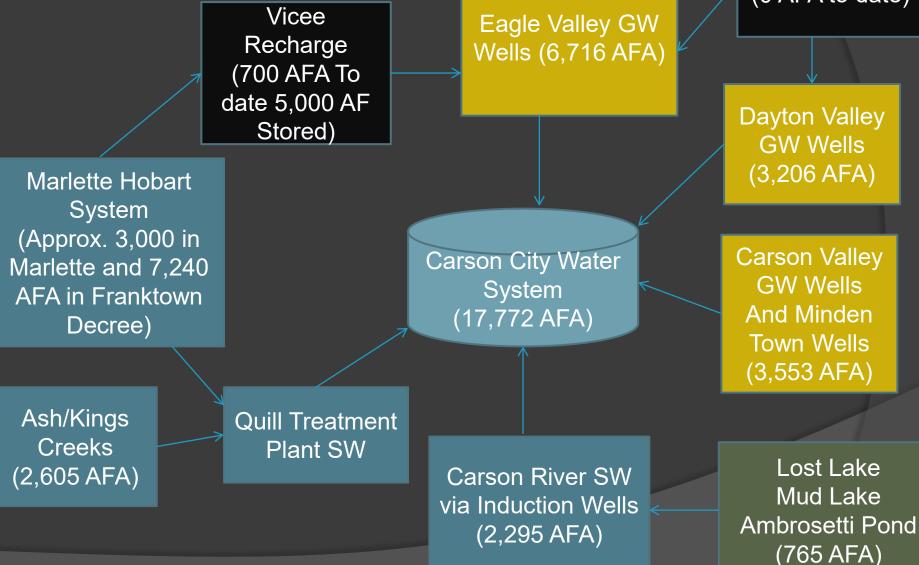
- Buildout Timeframe-Population of 80,000 between 2055 and 2085
- Increase annual water usage by 5,000 ac-feet at buildout (< current available water rights)
- Increase production by 8 MGD to meet buildout demand w/ 20% buffer



Annual Water Usage Projection

Water Source Portfolio Cont.

Domestic Well Conversions (0 AFA to date)

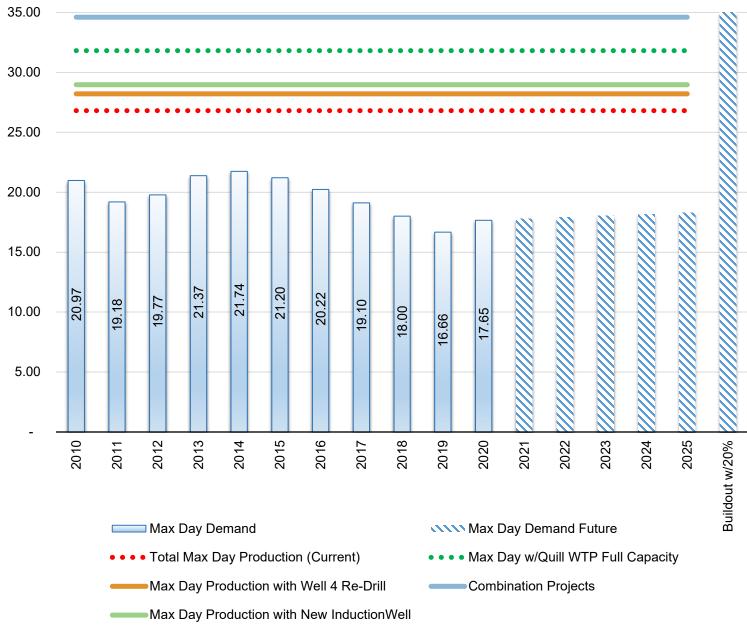


Future/Current Projects related to System Efficiencies, Redundancy and Future Demand

- East/West Transmission Main and Booster Pump Station – Final Phase 2B (Carson City)
 - Completed 2021 Required for System Resilience (moving imported water to the entire system)
- Well 3 Re-Drill (Double the Capacity)
 - Completed 2021 (added 1.87 MGD to existing total capacity)
- Quill WTP Improvements
 - Design is underway by Lumos and Jacobs Engineering.
 - Conjunctive Use, Demand, and Water Quality Driven
- Well 4 Re-Drill
 - **o** 2024
- New Induction Well
 - TBD

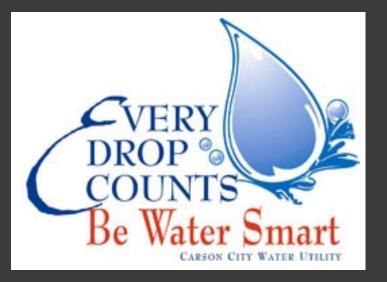


Carson City Max Day Demand (Million Gallons per Day) vs. Total Production (MGD)



Conclusion





- Complex and dynamic water system
- Diverse water portfolio
- Secured water rights for the future in healthy basins
- Strategic, smart and resilient plan to increase production, improve system inefficiencies and redundancy