TOPICS

- **Existing Sanitary Sewer Capacity**
  - Capacity for New Development

- **Planned Improvements**
  - CIP Facility Planning and Future Schedules

- **Map/Plan/Project Recommendation Process**
  - Discovery/Design Standards/Permit
Utility Engineering & Operations

- **4 Area Collection Systems**
  - South Truckee Meadows
  - North Spanish Springs
  - Lemmon Valley
  - Cold Springs

- **Treatment Facilities**
  - South Truckee Meadows (STMWRF)
  - Lemmon Valley (LVWRF)
  - Cold Springs (CSWRF)

- **Effluent Management**
  - South Truckee Meadows Reclaimed Water System
    - No Discharge to Truckee River
    - 461 Services (golf courses, schools, parks, streetscape)
  - Lemmon Valley
    - Playa discharge
  - Cold Springs
    - Rapid Infiltration Basin
Washoe County Service Areas
Sanitary Sewer Capacity Considerations

- Collection System
- Treatment Capacity
- Effluent Management
- CIP Implementation
<table>
<thead>
<tr>
<th>Facility</th>
<th>Permitted Capacity</th>
<th>Current Flow</th>
<th>Approximate # Residential Connections**</th>
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<tr>
<td>STMWRF</td>
<td>4.10 mgd</td>
<td>3.20 mgd</td>
<td>≈ 5,000</td>
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<td>Lemmon Valley</td>
<td>0.30 mgd</td>
<td>0.22 mgd</td>
<td>≈ 445</td>
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<td>Cold Springs</td>
<td>0.70 mgd</td>
<td>0.35 mgd</td>
<td>≈ 1,945</td>
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<tr>
<td>North Spanish Springs*</td>
<td>0.78 mgd*</td>
<td>0.09 mgd Available*</td>
<td>≈ 500 ***</td>
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*2005 Agreement    ** 180 gpd/residential dwelling unit – for planning purpose only    ***
Facility Planning and Future Schedules

- Completed Facility Planning Updates 2015/2016
  - South Truckee Meadows
  - Cold Springs
  - North Spanish Springs

- Joint Facility Planning in Lemmon Valley
- Reclaim Water Quality Analysis
- Effluent Management Master Planning
CIP Activities – Partial List

- South Truckee Meadows
  - Initiated Next Expansion of STMWRF
  - Steamboat Lift Station
  - Pleasant Valley Interceptor – Reach 3
  - Effluent Management Projects

- Cold Springs
  - Headworks Improvements
  - Rapid Infiltration Basin Study

- Lemmon Valley
  - Aeration System improvements in Lemmon Valley
  - Flow Shaving with City of Reno
  - Investigating alternative effluent management strategies including Class A+

- North Spanish Springs
  - No WC Collection System Improvements Immediately Required
Effluent Management Master Planning

- Comprehensive Regional Effluent Management Master Plan
  - Complimentary To Facility Plans
  - WRWC funded
  - Initiated July 2018
  - Fact Finding and Goal Setting
  - Draft Plan in 2020, for Board/Commission reviews.
  - Concurrently the Regional Partners Looking at Feasibility of Class A+
Plan/Project Recommendation Process

- Discovery Required - Assess Impacts and Determine Required Mitigation
- Modeling
- Collaboration with Regional Partners
- Utility Design Standards
- Washoe County Development Code
- Deferred Connection Fees (Ordinance)
- Intent to Serve
- Will Serve
CURRENT UTILITY CONSIDERATIONS

- Maintaining Existing Infrastructure
  - User Rates
- New Infrastructure – Respond to Development
  - Connection Fees
- Washoe County Policy and NRS Requirements
  - Ordinance
- Debt Commission

OUTLOOK

- 5-Year CIP Facility Expansion Projects ≈ $130M
- Expansion Project Funding Combination of Cash and Debt
  - Paid by New Development Connection Fees
  - Performed 30-Year Financial Projections With Conservative Assumptions
- State Revolving Funds (SRF)
  - Supplement and Preserve Cash
  - Requires Public Notification Process
Pleasant Valley Interceptor – Reach 4

- Anticipated Over 20 Years Ago
- Development Agreement and Preliminary Engineering Design - Mid 2000’s
- Challenges
  - Land and Easements
  - Permitting
  - Community Not In Total Agreement
- Revisit of Agreement and Approach During Economic Downturn
- New Agreement (2016)
  - Project Specific (St. James’s Village and Sierra Reflections)
  - Developer is Responsible to Design, Build and Dedicate to WC
  - Leaves Easements and Property Acquired Available For Future
Utility Engineering & Operations

Questions?