

CITY OF SPARKS

Senate Concurrent Resolution 26 Subcommittee Presentation

Water, Wastewater Treatment, Flood Control, Storm Drainage, and Water Reclamation/Reuse Programs

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EXHIBIT H-1 Committee Name **Washoe** Document consists of **24 Slides**
☒ Entire document provided.
☐ Due to size limitations, pages __ provided. A copy of the
complete document is available through the Research Library (775/684-6827)
or e-mail library@lsh.state.nv.us. Meeting Date: **11-30-05**



Water

TMWA

- **Joint Ownership: Reno, Sparks & Washoe County**
- **TMWA Board: Reno (3), Sparks (2), Washoe County (1), Rotating (1)**
- **Various TMWA Ad Hoc Committees**
- **Provides approx. 87% of potable water in Truckee Meadows (also wholesales water to Washoe Co. & Sun Valley)**



Water

Regional Water Planning Commission

Coordinated efforts of local agencies:

- Diverse Commission/Stakeholders
- Developed/Updated the Washoe County Comprehensive Regional Water Management Plan (2004 – 2025)



Wastewater Treatment Truckee Meadows Water Reclamation Facility (TMWRF)

**Joint Ownership & Management
(including state cert. laboratory):**

- **Sparks owns approx. 1/3**
- **Reno owns approx. 2/3**
- **Sparks manages operations**
- **Reno manages capital projects**



Wastewater Treatment

TMWRF

- **Current influent capacity: 40 MGD**
(average day annual flow)
- **Expansion influent capacity: 46.5 MGD**
(average day annual flow)
- **Ultimate capacity build-out with current technology: Est. 53 MGD**
- **TMWRF currently treats > 90% of wastewater in Truckee Meadows**



Wastewater Treatment

TMWRF

Regional Wastewater Provider for:

- Reno (including SOI)
- Sparks (including SOI)
- Sun Valley
- Washoe County (Spanish Springs)



Wastewater Treatment

TMWRF

Environmental Control

**Pretreatment Program Services
(to manage industrial waste) :**

**Provided by Reno and Sparks to
all users of TMWRF**

(includes Sun Valley & Washoe Co.)



Wastewater Treatment

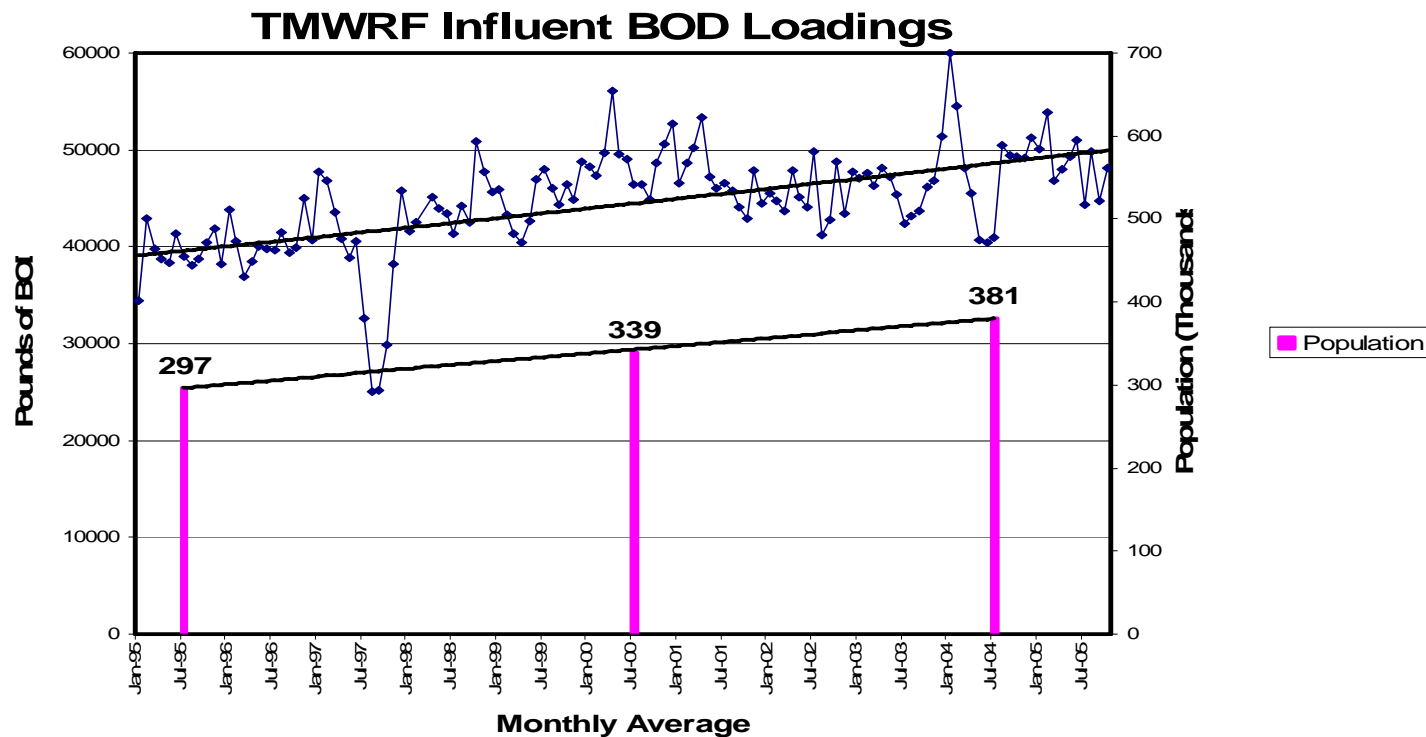
TMWRF Joint Coordinating Committee

- Reno
- Sparks
- Sun Valley GID
- Washoe County



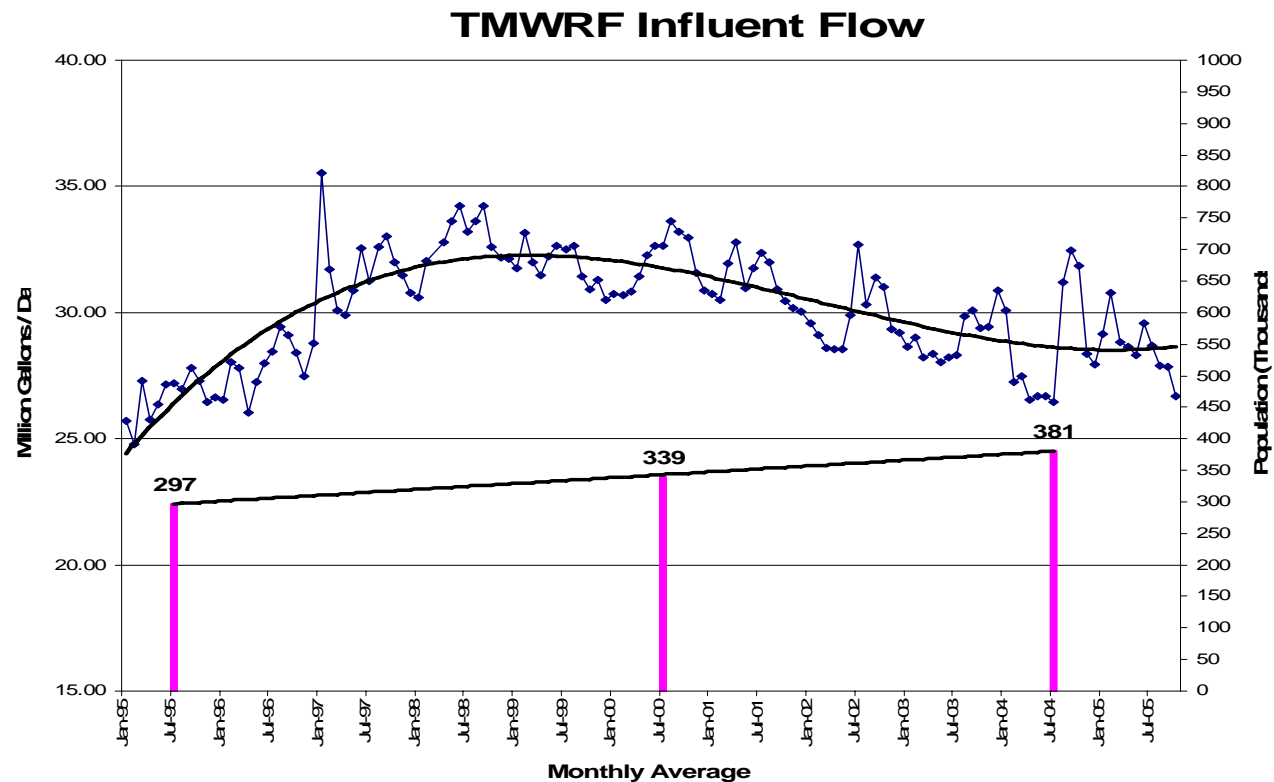
Wastewater Treatment

TMWRF BOD Loading Trend



Wastewater Treatment

TMWRF Influent Trend





Sanitary & Stormwater Collection Systems

Sewer Inventory:

- **280 Miles - Sanitary Sewer**
- **123 Miles - Storm Sewer**
- **7 Sanitary Sewer Lift Stations**

Ditches:

- **Extensive city-wide open channel ditch and drainage systems**



Sanitary & Stormwater Collection Systems

Services Provided:

- **Operations & Maintenance**
- **Asset Management**
- **Rehabilitation and Replacement**
- **Environmental Control**
- **Financial Planning**
- **20 Year Facility Master Plans**

Sanitary & Stormwater Collection Systems

Sewer Condition Assessment Program



Stormwater

**Regional Stormwater Permit
Coordinating Committee:**

**Reno, Sparks and Washoe County
interfaces with the Nevada Division of
Environmental Protection and the
Environmental Protection Agency for
stormwater permit requirements and
program upgrades (cost shared 1/3 per
agency).**

Flood Control

The background of the slide is a photograph of a concrete wall. In the center of the wall is a large, circular, rusted metal hatch or door. The ground in front of the wall is covered with dry, brownish vegetation and some rocks.

**Truckee River Flood Project
Coordinating Committee (Washoe Co.,
Reno, Sparks, UNR):**

**Coordinates regional efforts with the
Corps of Engineers \$350M regional
flood control project.**

**Federally funded project with eighth
cent sales tax (used for local match).**

Effluent Reuse Utility

- Reuse of a limited natural resource
 - Extends limited water resources & supply
 - Reduction in demands on potable water systems resulting in decreased need for capacity improvements
- Drought proof irrigation supply
 - Sparks/Reno beneficial component plant flow (6,700 af)
 - Surface water rights in normal and high flow years
- An option to reduce nutrient loading to the Truckee River and Pyramid Lake
 - TMWRF and Total Maximum Daily Loads (TMDLs)



Effluent Reuse Utility

Original Project: 6.8 miles of pipeline



Effluent Reuse Utility 1996 Irrigation System

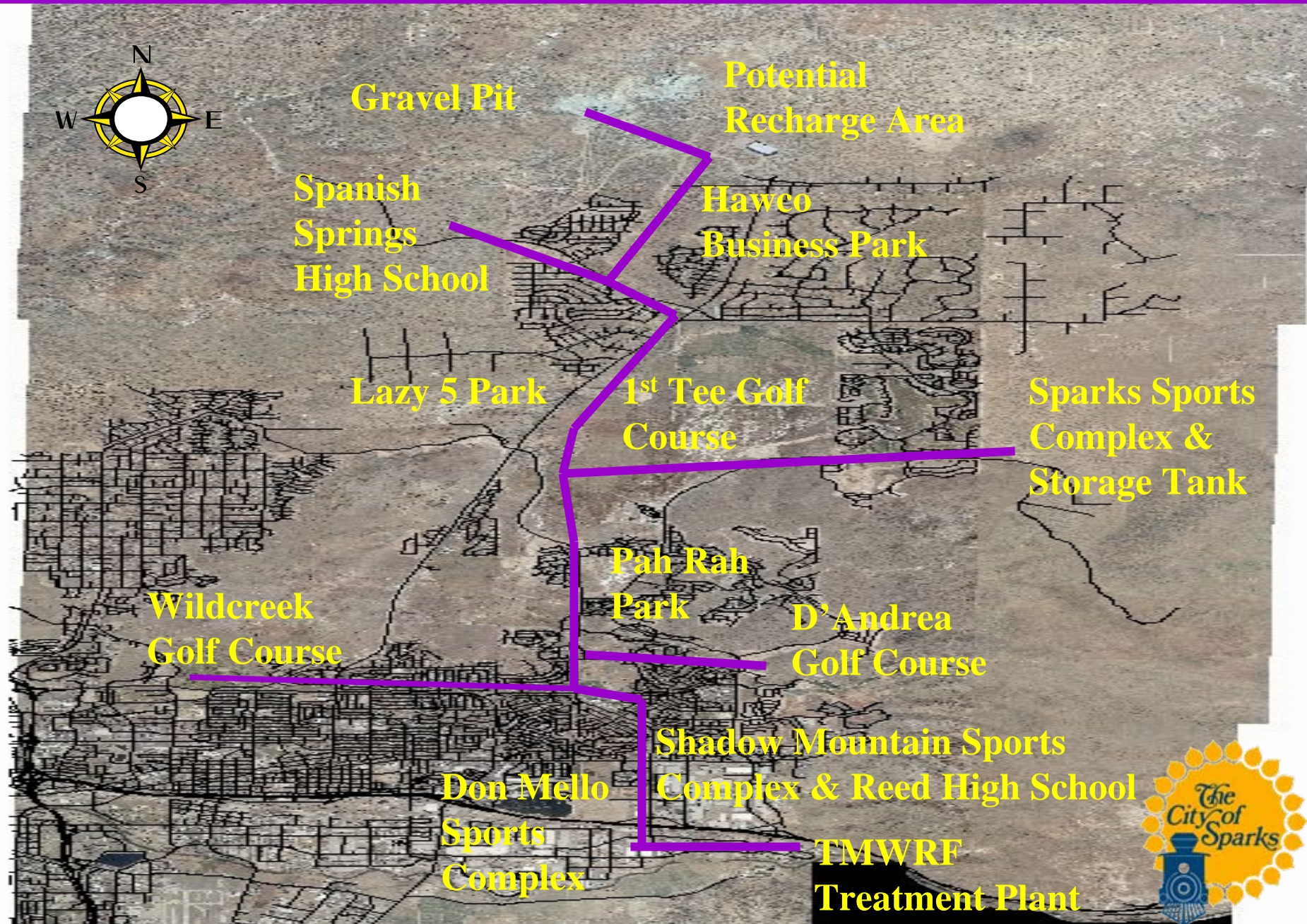


Effluent Reuse Utility Expansion Scope 2002 - 2005

- **24+ miles of pipeline (> 31 miles total)**
- **3,900+ acres of irrigation**
- **11,000+ acre-feet / year demand**
- **25,000 gpm peak system flow**
- **22,000 gpm peak plant flow**
- **Total annual design capacity = 6,700 acre ft. (current a.f. approx. 1,100)**
- **Year-round effluent operations**



Effluent Reuse Utility Expansion Master Plan



Effluent Reuse Utility Irrigation Master Plan



- 14 City parks (215 acres)
- 6 County parks (169 acres)
- 6 Golf courses (596 acres)
- 6 Washoe County schools (43 acres)
- 2,878 acres of common area and open space
- More users being identified!

Lazy 5 Park



Nevada Water Resources Association

**Major Project of the Year Award
Wastewater Category
February, 2005**



Regional Utility Coordination Committees & Commissions

Committees/Commissions:

- **TMWA Board & Ad Hoc Committees**
- **Regional Water Planning Commission**
- **TMWRF Joint Coordinating Committee**
- **Storm Water Discharge Permit
Coordinating Committee**
- **Truckee River Flood Project
Coordinating Committee**



Questions?

