

DRAFT
2035 Regional Water Balance Map:
Explanation

February 7, 2017

- All numbers are shown in acre feet annually (“afa”).
- The planning areas are representative of the sewer service boundaries of the regional wastewater treatment facilities. These areas are also consistent with the *City of Reno and Washoe County TMSA/FSA Water, Wastewater and Flood Management Facility Plan* (ECO:LOGIC, 2007) and the *City of Sparks TMSA/FSA Conceptual Facility Master Plan* (Stantec, 2008).
- For the purposes of this water balance, the potential conversion of domestic wells to the municipal water system is shown as a water demand.
- For the purposes of this water balance, the potential conversion of individual septic systems to the municipal sewer system is shown as a wastewater flow.
- Local groundwater supplies are shown equal to the perennial yield of the respective basin or local management policy.
- Water supplies, wastewater treatment capacity and effluent disposal constraints are identified for each planning area.
- Current groundwater recharge quantities are shown as a demand on the municipal water system.
- TMWA’s TROA supply includes both groundwater and surface water supplies. However, the combined resource is capped at 119,000 afa.
- Undetermined Water Supply is called out if there are insufficient water resources identified in the planning area to meet the projected 2035 water demands.
- Undetermined Disposal is called out if there is insufficient effluent disposal capacity, i.e. rapid infiltration basins and/or reclaimed water demands to meet the projected 2035 wastewater flows.
- Future reclaimed water demands are based on the reported 2015 consumption. If new reclaimed water facilities and customers are added, there would be a corresponding decrease in the quantity shown in Undetermined Disposal or in one of the other disposal categories.
- Additional reclaimed water may be available from TMWRF and is not necessarily limited to the amounts shown as reclaimed water (“RW”) system demands.
- This analysis does not assess the existing infrastructure capacity or identify any additional infrastructure needed to meet future conditions.

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Notes:

1. All numbers are in acre feet per year.
2. The projected water demands and wastewater flows are based upon a 2035 consensus forecast population of 590,490 people.
3. TMSA boundary current as of February 2008.
4. Water systems included are TMWA, SVGID and Utilities Inc. in Cold Springs and Spanish Springs (Sky Ranch). Some small private water utilities are not included.
5. Potential septic system conversion flows and domestic well demands are included in the demand estimates.
6. Local groundwater supplies are based on the State Engineer's estimate of perennial yield or local management policy.
7. TMWA's TROA water includes both surface water and local groundwater supplies, but the combined total capped at 119,000 (AFA).
8. Allocation of water from Reno/Stead/Lemmon Valley to Cold Springs is based on an assumed management strategy that satisfies all Cold Springs demands.
9. This map does not assess what infrastructure is in place or will be needed to meet future conditions.

DRAFT Potable Water Balance			
Planning Areas	Estimated Total of Demand and Exports (AFA)	Identified Supply Capacity Resource (AFA)	Deficit (-)/Surplus (+) Supply (AFA)
Cold Springs	4,830	4,830	0
Reno Stead/ Lemmon Valley	15,417	14,100	-1,317
Sun Valley GID	3,263	3,263	0
Sparks/Spanish Springs	28,913	28,913	0
Central Truckee Meadows	86,824	119,000	32,176
South Truckee Meadows	19,759	19,759	0
Wastewater Balance			
Wastewater Service Areas	Estimated Flow (AFA)	Identified Disposal Capacity (AFA)	Additional Disposal Capacity Required (AFA)
CSWRF	2,044	1,340	704
RSWRF/LVWWTP	3,838	3,616	222
TMWRF (RENO) TMWRF (SPARKS)	38,429	44,806	0
STMWRF	7,729	3,330	4,399

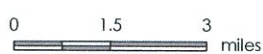
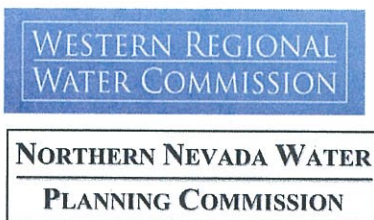


Figure 6-2 DRAFT 2035 Regional Water Balance Map

Washoe County, NV NAD 1983 StatePlane Nevada West FIPS 2703 Feet		
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