



State of Utah

GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Alan Matheson
Executive Director

DIVISION OF DRINKING WATER
Marie E. Owens, P.E.
Director

September 11, 2017

Val Surrage
Taylor West-Weber Water District
2815 West 3300 South
West Haven, Utah 84401

Subject: **Feasibility Evaluation**, Drinking Water Service to Sunset Equestrian Cluster
Subdivision from Taylor-West Weber Water District; Water System #29019, File #10950

This is not Plan Approval for construction.

Dear Mr. Surrage:

The Division of Drinking Water (the Division) received your request on August 15, 2017, concerning the capacity of the Taylor-West Weber Water District (The District) to provide drinking water service to the Sunset Equestrian Cluster Subdivision. This feasibility evaluation is solely based on the information we received from the District and the existing records available in the Division's database.

The Division's estimate is based on:

- The present number of equivalent residential connections (ERC's) the District is obligated to serve – the District indicated in the attached Project Notification Form (PNF), which was received on August 15, 2017, that the District currently is obligated to serve 2,699 ERC's and the proposed Sunset Equestrian Cluster Subdivision will add 180 new residential connections (180 ERC's). Therefore, our estimate is based on 2,879 ERC's, i.e. 2,699 plus 180 ERC's;
- Irrigable acreage, which was provided by the District in the last sanitary survey; and
- Fire flow required by local fire code officials.

This evaluation is courtesy technical assistance, and is not meant to be a detailed or accurate engineering analysis. The Division does not track or verify the number of obligated connections or the status of the obligated connections. It is the responsibility of the Taylor-West Weber Water District and Weber County to verify all information for planning purposes.

Per Utah Administrative Rule R309-510 Minimum Sizing Requirements, the number of allowable connections to be served by a public water system is affected by:

- Source water capacity;
- Storage capacity; and
- Available water rights.

Among these three components, the one with the least capacity determines the allowable number of connections for a public water system. The Division of Drinking Water's feasibility evaluation addresses only the first two components (i.e., source and storage capacities).

The Division of Water Rights is the authority for water rights related regulations. Please consult with the Division of Water Rights directly for certification and interpretation regarding water rights.

The requirements related to indoor water use for these components are:

- A water system must be able to provide **800 gallons per day (gpm) per ERC from its water source(s)**;
- A water system must be able to provide **400 gallons per ERC of storage**;
- A water system must have **0.45 acre-feet per ERC of water rights**.

Furthermore:

- If a water system provides water for irrigation use, additional source capacity, storage capacity and water rights are required.
- If a water system provides water for fire suppression, additional storage capacity is required.

Source Capacity

Based on the Division records and the information provided by the Taylor-West Weber Water District, the District has the following approved drinking water sources and safe yields:

Source Number	Water Source Name	Safe Yield (in gpm)
WS001	Big Well	900
WS002	Small Well	Inactive
WS003	Weber Basin WCD Wholesale Contract	2,000
WS004	900 South Well	1,000
WS005	Shop Well	1,133
	Total	5,033

From the table above, the Division estimates the District's water source capacity to be 5,033 gallons per minute (gpm).

The attached capacity calculation work sheet estimates the minimum source capacity required for the District is 3,019.1 gallons per minute (gpm). This estimate includes:

- 1,599.4 gpm for indoor water use; and
- 1,419.7 gpm for irrigation use.

It appears that the District has 2,013.9 gpm excess source capacity, and has adequate source capacity to serve the Sunset Equestrian Cluster Subdivision.

Storage Capacity

Based on the Division records and information provided by the District, the District has the following approved storage tanks in service:

Storage Tank Number	Source Name	Volume Gallons
ST001	Million Gallon Tank	1,000,000
ST002	2 Million Gallon Tank	2,000,000
ST003	250 K Gallon Tank	250,000
ST004	3MG Tank (Temporary Operating Permit issued)	3,000,000
	Total	6,250,000

From the table above, the Division estimates the District's water storage capacity to be 6,250,000 gallons.

The attached capacity calculation work sheet estimates the minimum storage capacity required for the District is 2,292,608 gallons.

It appears that the District has 3,957,392 gallons excess storage capacity, and has adequate storage capacity to serve the Sunset Equestrian Cluster Subdivision.

Summary

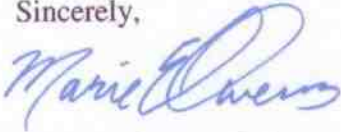
Based on information made available to the Division, it appears that at the present time the District has sufficient source and storage capacities to provide drinking water service to the proposed Sunset Equestrian Cluster Subdivision.

The District submitted a Project Notification Form for the Sunset Equestrian Cluster Subdivision on August 15, 2017, and was granted a plan review waiver by the Division, which allows the construction of the water infrastructure serving this subdivision to proceed once approval is granted by Weber County.

Val Surrage
Page 4 of 4
September 11, 2017

If you have any questions regarding this letter, you can contact Gary Kobzeff at (801) 536-0099.

Sincerely,



Marie E. Owens, P.E.
Director

GK/nl/dg/hb

Enclosure — Operating Permit Checklist

cc: Michela Galdwell, Environmental Health Director, Weber-Morgan Health Dept, mgladwell@co.weber.ut.us
Val Surrage, Taylor West Weber Water District, taylorwestweberwater@msn.com
Dan White, Gardner Engineering, dan@gecivil.com
Gary Kobzeff, Division of Drinking Water, gkobzeff@utah.gov

DDW-2017-009922.docx