



State of Utah

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Environmental Quality

Alan Matheson  
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DIVISION OF DRINKING WATER  
Marie E. Owens, P.E.  
*Director*

August 23, 2017

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

Subject: **Feasibility Evaluation**, Drinking Water Service to Cameron Cove Subdivision from Taylor-West Weber Water District; Water System #29019, File #10949

**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 Cameron Cove 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 2,672 ERC's and the proposed Cameron Cove Subdivision will add 27 new residential connections (27 ERC's). Therefore, our estimate is based on 2,699 ERC's, i.e. 2,672 plus 27 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.

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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<br>Wholesale Contract | 2,000               |
| WS004         | 900 South Well                        | 1,000               |
| WS005         | Shop Well                             | 1,133               |
|               | <b>Total</b>                          | <b>5,033</b>        |

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 2,919 gallons per minute (gpm). This estimate includes:

- 1499.4 gpm for indoor water use; and
- 1419.7 gpm for irrigation use.

**It appears that the District has 2,114 gpm excess source capacity, and has adequate source capacity to serve the Cameron Cove Subdivision.**

### **Storage Capacity**

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

| <b>Storage Tank Number</b> | <b>Source Name</b>                           | <b>Volume Gallons</b> |
|----------------------------|--|-----------------------|
| 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             |
|                            | <b>Total</b>                                 | <b>6,250,000</b>      |

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 2,220,608 gallons.

**It appears that the District has 4,029,392 gallons excess storage capacity, and has adequate storage capacity to serve the Cameron Cove Subdivision.**

### **Summary**

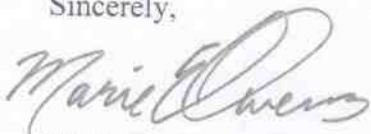
Based on information made available to the Division, it appears that at the present time the District has sufficient source and storage capacities to provide drinking water service to the proposed Winston Park Subdivision.

The District submitted a Project Notification Form for the Cameron Cove Subdivision on August 16, 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  
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If you have any questions regarding this letter, you can contact Tammy North at (801) 536-4293.

Sincerely,



Marie E. Owens, P.E.  
Director

TN/ym/mdb/hb

Enclosures: PNF, Capacity Calculations

cc: Michela Galdwell, Environmental Health Director, Weber-Morgan Health Dept, [mgladwell@co.weber.ut.us](mailto:mgladwell@co.weber.ut.us)  
Sean Wilkinson, Weber County Planner, [swilkinson@co.weber.ut.us](mailto:swilkinson@co.weber.ut.us)  
Jared Andersen, P.E., Weber County Engineer, [jandersen@co.weber.ut.us](mailto:jandersen@co.weber.ut.us)  
Dan White, Gardner Engineering, [dan@gecivil.com](mailto:dan@gecivil.com)  
Kelly Casteel, Division of Drinking Water, [kcasteel@utah.gov](mailto:kcasteel@utah.gov)  
Ross Hansen, Regional Engineer, Division of Water Rights, [rosshansen@utah.gov](mailto:rosshansen@utah.gov)

DDW-2017-009318

# PROJECT NOTIFICATION FORM (PNF)

Please provide the following information for all Drinking Water Projects by existing PWS's

Use with Plan Submittal [R309-500-6(1)] or when requesting Waiving of Plan Submittal [R309-500-6(3)]

If this is a new PWS, please complete the Supplemental PNF available on our website: [drinkingwater.utah.gov/blank\\_forms.htm](http://drinkingwater.utah.gov/blank_forms.htm)

Upon completion, Submit by Email, fax or mail to:

State of Utah - Dept of Environmental Quality - Division of Drinking Water  
P.O. Box 144830 - Salt Lake City, Utah - 84114-4830 - (801) 536-4200 - (801) 536-4211

File No: 10949

Date Rec'd: 8/15/2017

- 1** Name of PWS [owner of system as recorded with DDW]  
System Name: Taylor West Weber Water District  
System Number: 29019  
Address: 2815 W 3300 S  
City, State, Zip: West Haven, Utah 84401  
Present No. of ERC's system is obligated to serve: 2672  
Present No. of ERC's physically connected to system: 2170  
Population Served: 7595  
No. of ERC's this project will add to system: 27
- 2** Addressee for Official Correspondence [Mayor, Public Works Director, etc..]  
Name: Val Surrage  
Title: Manager  
Address: Same  
City, State, Zip: \_\_\_\_\_  
Phone No: 801.540.6068  
E-Mail Address: taylorwestweberwater@msn.com
- 3** PE designated as Direct Responsible Engineer for Entire System (if applicable)  
Company Name: Gardner Engineering  
Name: Dan White  
Address: 5150 South 375 East  
City, State, Zip: Ogden Utah, 84415  
Phone No: 801.476.0202  
E-Mail Address: dan@qecivil.com
- 4** PE responsible for design of this Project [if not same as item 3]  
Name: Nate Reeve, Reeve and Associates  
Address: \_\_\_\_\_  
City, State, Zip: Riverdale, Utah  
Phone No: 801.621.3100 Fax No: \_\_\_\_\_  
E-Mail Address: \_\_\_\_\_
- 5** Name of Construction Inspector(s) and frequency of inspection  
Name: Clay Penman  
Full Time: \_\_\_\_\_ Part Time: x
- 6** Description of Project [in sufficient detail for DDW to identify]  
Cameron Cove Subdivision: Approx. 2450 feet of 10" C900 DR14 PVC waterline (bell and spigot), 4 FHs (estimated until AHJ reviews), mainline valves, and services to 27 lots. Inspector will ensure minimum separation standards from sewer lines as set forth in R309-550-7. This subdivision is located on the south side of 2200 S, at approximately 4000 W, in Weber County. A feasibility analysis from the DDW similar to File #10285 is requested.
- 7** Anticipated Construction Schedule:  
Advertise for Bids: Unknown, 2018 likely  
Bid Opening: Unknown, 2018 likely  
Begin Construction: Unknown, 2018 likely  
Complete Construction: Unknown, 2018 likely
- 8** Is this PNF for plan review waiver 3a? [see R309 500-6(3a) to verify] Yes No  
 Yes  No  
If Yes, you must have a previously approved Master Plan and Construction Standards.
- Is this PNF for plan review waiver 3b? [see R309 500-6(3b) to verify] Yes No  
 Yes  No  
If Yes, you must have a designated PE responsible for the system and previously approved Construction Standards.
- Does this project meet any of the criteria to be exempt from the hydraulic modeling rule requirements? [see R309 511-4(1)(a)(i) through (iv) to verify] Yes No  
 Yes  No  
If Yes, specify rule reference here:  
[for example: R309-511-4(1)(x)(iii)]  
R309 511-4(1)(a)(iii)
- 9** Fire Suppression Authority [if system has fire hydrants]  
Name: Weber Fire District  
Address: 2023 W 1300 N  
City, State, Zip: Ogden Utah 84404  
Phone No: 801.782.3580 Fax No: \_\_\_\_\_  
E-Mail Address: bthueson@weberfd.com  
Req'd flow (gpm): 1000 Duration (hrs): 2
- 10** Funded by State or Federal Agency?  
 Drinking Water Board (SRF or FSRF) Loan #: \_\_\_\_\_  
 Community Impact Board  
 None  
 Other (Specify) \_\_\_\_\_