

PROJECT NOTIFICATION FORM (PNF)

File No: 10649
Date Rec'd: 11/28/2016

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

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 fax (801) 536-4211

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: 2,468
 Present No. of ERC's physically connected to system: 2087
 Population Served: 7304
 No. of ERC's this project will add to system: 47

6 Description of Project [in sufficient detail for DDW to identify]

Taylor Vista Subdivision - SW corner of 4700 W and 2550 South in Weber County: Approx. 5,000 feet of 8" and 10" C900 DR14 PVC waterline (bell and spigot); FHs per Weber Fire marshal (estimated 8, review not complete yet), mainline valves, and services to 47 lots. Plans provide for, and inspector will ensure, minimum separation standards from sewer lines as set forth in R309-550-7. A feasibility analysis from the DDW, similar to File #10602, is requested.

2 Addressee for Official Correspondence [Mayor, Public Works Director, etc...]
 Name: Val Surrage
 Title: Manager
 Address: Same
 City, State, Zip: _____
 Phone No: _____
 E-Mail Address: _____

7 Anticipated Construction Schedule:
 Advertise for Bids: Unknown, 2017 likely
 Bid Opening: Unknown, 2017 likely
 Begin Construction: Unknown, 2017 likely
 Complete Construction: Unknown, 2017 likely

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@gecivil.com

8 Is this PNF for plan review waiver 3a? [see R309 500-6(3a) to verify] 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

 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

 If Yes, specify rule reference here:
 [for example, R309-511-4(1)(a)(ii)]
R309 511-4(1)(a)(iii)

4 PE responsible for design of this Project [if not same as item 3]
 Name: Jim Flint
 Address: 538 N Main St
 City, State, Zip: Brigham City, Utah 84302
 Phone No: 435.723.3491 Fax No: _____
 E-Mail Address: jimf@haies.net

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

5 Name of Construction Inspector(s) and frequency of inspection
 Name: Clay Penman
 Full Time: _____ Part Time: X

10 Funded by State or Federal Agency?
 Drinking Water Board (SRF or FSRF) Loan #: _____
 Community Impact Board
 None
 Other (Specify) _____

Division of Drinking Water – Water System Capacity Calculation Sheet (Last Update 2/12/2016)

Enter the green cells only

System Name **Taylor West Weber (December 2016)**

System Number **29019**

1.1 Indoor Water Use

Convert "Number of other connections" (Cell E9) to ERCs here. [ERCs of other connections = peak day demand of other connections in gal per day / 800 gpd]

Number of residential connections ----- **2,496**
 Number of other connections --- **19** ERCs of other connections **19.0**

(Example: water use of 2 factories equals to water use of 55 homes.)

Enter number of non-residential connections, e.g., 2 industrial connections.

Total Equivalent Residential Connections (ERCs) **2,515.0**

MINIMUM REQUIREMENTS FOR INDOOR WATER USE					
Source		Storage		Water Rights	
gpd/ERC	Total (gpm)	Gallons/ERC	Total (gallons)	ac-ft/yr/ERC	Total (ac-ft/yr)
800	1,397.2	400	1,006,000	0.45	1131.75

1.2 Outdoor Water Use

Enter estimated irrigated acre

Is the drinking water used for outdoor irrigation? Yes No
 Residential ERCs using drinking water for irrigation ----- >> **470**
 Percentage of Residential ERCs using DW for irrigation ----- >> **19%**
 Average irrigated acreage per residential connection ----- >> **0.75**
 Total irrigated acreage of other connections (park, school, etc.) ----- >> **6.00**
 Irrigation zone **4**

(Enter notes here regarding whether and what % of irrigation water is supplied by PWS.)

Enter total irrigated acres of other connections here.

Select Irrigated Zone # from the pick list. See "Irrigation Demands & Map" tab on the bottom of the screen.

MINIMUM REQUIREMENTS FOR IRRIGATION USE					
Source		Storage		Water Rights	
gpd/ERC	Total (gpm)	Gallons/ERC	Total (gallons)	ac-ft/yr/ERC	Total (ac-ft/yr)
4,277	1,419.7	2,136	1,021,008	1.40	670.40

1.3 Fire Flow Water Use

Enter fire flow in gpm.

Does the water system provide fire protection? Yes No
 Maximum fire flow demand (in gpm) for water system or pressure zone **1,000**
 Maximum fire suppression duration (in hours) for water system or pressure zone **2**
 Required Fire Suppression Storage (in gallons) ----- >> **120,000**

(*Verify req'd fire flow and duration with local fire code officials.* Enter notes here, e.g. fire official contact info or comments.)

Enter duration in hours.

2. Summary of Water System Capacity Requirements

MINIMUM CAPACITY REQUIREMENTS FOR WATER SYSTEM					
Source (indoor + outdoor)		Storage (indoor + outdoor + fire)		Water Rights (indoor + outdoor)	
gpd/ERC	Total (gpm)	Gallons/ERC	Total (gallons)	ac-ft/yr/ERC	Total (ac-ft/yr)
5,077	2,816.9	2,536	2,147,008	1.85	1,802.15

2.1 Does this system have adequate source capacity (per R309-510-7)?

This source capacity assessment is a general overall system calculation. It may not reflect the variations in individual areas or pressure zones.

Required Source Capacity	2,816.9	gpm	Autolink to 2 "Total Source" cell above.
Existing Source Capacity	3,900.0	gpm	Autolink to 4.2 "Total Existing Source Capacity" cell below.
Source Capacity Deficit	None	gpm	Source deficit indicates that: (1) additional source capacity is needed, and (2) source deficiency should be assessed.
Existing % of Total Req'd	138.5%		Less than 100% indicates: (1) additional source capacity is needed, and (2) source deficiency should be assessed.

2.2 Does this system have adequate storage capacity (per R309-510-8)?

This storage capacity assessment is a general overall system calculation. It may not reflect the variations in individual areas or pressure zones.

Total Required Storage	2,147,008	gal	Autolink to 2 "Total Storage" cell above.
Existing Storage Capacity	3,250,000	gal	Autolink to 4.3 "Total Existing Storage Capacity" cell below.
Storage Capacity Deficit	None	gal	Storage deficit indicates that: (1) additional storage volume is needed, and (2) storage deficiency should be assessed.
Required Fire Storage	120,000	gal	
Is storage deficiency solely due to fire storage?	Not Applicable		If NO, answer one of question set 2.01 to 2.05 in ESS. If YES, answer one of question set 2.06 to 2.10 in ESS.
Existing % of Total Req'd	151.4%		Less than 100% indicates: (1) additional storage capacity is needed, and (2) storage deficiency should be assessed.

3. Transient PWS Indoor Water Use — ERC Calculation (See R309-510, Tables 510-1, 2, & 4 for other facility types.)

Facility Type	MINIMUM REQUIREMENTS FOR INDOOR USE				ERC/site or pad	Total # of sites/pads	ERCs
	Source		Storage				
	GPD/person*	GPD/site or pad	Gallons/person	Gallon/site or pad			
Modern Recreation Camp	60	0	30	0	0.00		0.0
Semi-Developed Camp w/ flush toilets	20	0	10	0	0.00		0.0
Semi-Developed Camp w/o flush toilets	5	0	2.5	0	0.00		0.0
RV Park	N/A	100	N/A	50	0.13		0.0
Number of people per camp site							
Roadway Rest Stop w/ flushometer valves	7	3.5	8.8	700	6.1		

If applicable, enter number of people per camp site here.

If applicable, use this number in cell I8 or cell I9 on Page 1.

4. Data Input for Calculating ERCs, Source and Storage
Taylor West Weber (December 2016)

4.1 Projected ERCs Calculation (optional)

Total Projected ERCs	2,515
Existing Residential Connections	2468
Obligated Future ERCs (enter below)	47
Taylor Vista Subdivision	47

Use this number in Cell I8 ("Number of residential connections") on Page 1 to calculate PROJECTED demand & req'ts (including both existing & future connections).

Diaphragm or air pressure tanks shall NOT be considered effective storage volume for (1) community systems, or (2) NTNC with significant demand UNLESS an exception has been granted.

Per the November 28, 2016 PNF the District is obligated to serve 2,468 connections with only 2,087 being currently physically connected. (The 2424 includes the 19 "other" connections; 12 agricultural and 9 commercial.)

4.2 Summary - Existing Sources (enter in green cells below)

Total Existing Source Capacity (in gpm)		3,900
WS001	Big Well	900
WS002	Small Well - inactive	0
WS003	Weber Basin WCD CC	2000
WS004	900 South Well	1000
WS005	Shop Well - proposed	0
Maximum ERCs (assuming indoor use only)		7020

4.3 Summary - Existing Storage Tanks (enter below)

Total Existing Storage Cap. (in gallons)		3,250,000
ST001	Million Gallon Tank	1,000,000
ST002	2 Million Gallon Tank	2,000,000
ST003	250 K Gallon Tank	250,000
ST004	Proposed	0

Certification of Hydraulic Analysis & Plan Submittal Waiver Conditions

Taylor Vista Subdivision
(Project Name or Description)

Taylor-West Weber Water Improvement District
(Water System Name)

29019
(Water System Number)

10649
(DDW File Number, If Available)

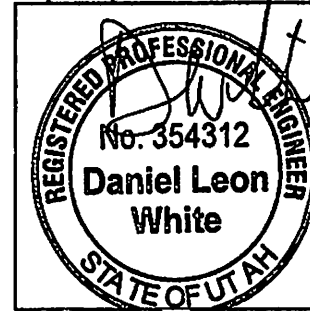
- I hereby certify that the hydraulic modeling analysis for the subject project meets all requirements as set forth in R309-511 (Hydraulic Modeling Rule) and complies with the provisions thereof, as well as the sizing requirements of R309-510, and the minimum water pressures of R309-105-9. Where applicable the proposed additions to the distribution system will not cause the pressures at any new or existing connections to be less than those specified in R309-105-9. The model is sufficiently calibrated and accurate to represent the conditions within this water system. The velocities in the model are not excessive and are within industry standards. The hydraulic modeling method is *use of computer software*, and the computer software used was *Innovyze Infowater*.

Signature _____

Print Name Dan White

State of Utah P.E. License No. 354312

Date 11/28/2016



(This portion must be checked, signed, sealed, and dated by a professional engineer (P.E.) who oversees the completion of this hydraulic modeling analysis.)

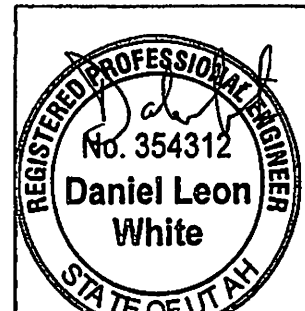
- I will ensure that the design and construction of the subject project will meet the requirements of R309-550.
- I will ensure that this water system will receive a copy of the as-built or record drawings.
- I will ensure that, prior to placing the subject distribution pipelines in to service, proper flushing and disinfection will be done in accordance with ANSI/AWWA C651-14 AWWA Standard for Disinfecting Water Mains (i.e., two consecutive sample sets for each 1200 feet, end-of-line, each branch, etc., none positive, at least 16 hours apart).

Signature _____

Print Name Dan White

State of Utah P.E. License No. 354312

Date ~~10/10/2016~~ 11/28/2016



(This portion must be checked, signed, sealed, and dated by a P.E. responsible for the design and construction of the project or designated by the water system in writing as the P.E. directly responsible for the design of the entire water system.)