## Division of Drinking Water Water System Capacity Calculation Sheet (revised June 23, 2011) Enter the green cells only **System Name:** Fable Haven Town System Number: 11111 1. Indoor Water Use Convert "Number of other connections" (Cell E9) to ERCs here. (ERCs of other connection = peak day demand of other connections / 800 gal per day) . . . . . . . . . . . Number of residential connections Example: water use of 2 Number of other connections - - -ERCs of other connections 75.0 factory is equivalent to 30 homes.) Enter number of non-residential connections (e.g., 2 factory connections). Total Equivalent Residential Connections (ERCs) MINIMUM REQUIREMENTS FOR INDOOR WATER USE Source Storage Water Rights Per ERC Per ERC Per ERC Total Total Total (gpd/ERC) (gallons/ERC) (gpm) (gallons) (ac-ft/yr) (ac-ft/yr) 375.0 400 270,000 0.45 303.75 2. Outdoor Water Use Enter estimated irrigated acre Is the drinking water used for outdoor irrigation? No Yes Residential ERCs using drinking water for irrigation 360 Percentage of Residential ERCs using DW for irrigation 60% Average irrigated acreage per residential connection 0.05 Total irrigated acreage of other connections. 35.00 Enter notes here. Check whether and Enter total irrigated acres of Trrigation zone what % of outdoor irrigation is supplied other connections here by drinking water.) Select Irrigated Zone # from the list (see "Irrigation Demands & Map" tab on MINIMUM REQUIREMENTS FOR OUTDOOR WATER USE the bottom of the screen). Source Water Rights Per ERC Per ERC Per ERC Total Total Total (gpd/ERC) (gallons) (gallons/ERC) (ac-ft/yr) (ac-ft/yr) (gpm) 244 179.7 126 133,984 0.08 87.98 3. Fire Flow Requirement Enter fire flow in gpm. Does the water system provide fire protection? ✓ Yes No Maximum fire suppression demand for water system or pressure zone (gpm) 1,500 Maximum fire suppression duration for water system or pressure zone (hours) 2 Required Fire Suppression Storage (gallons) --- --->>> 180,000 Enter notes here. Verify minimum fire flow and duration Enter duration in hours. vith local fire authority.) <u>Total Water System Requirements</u> (= indoor use + outdoor use + fire flow demand) MINIMUM REQUIREMENTS FOR WATER SYSTEM Source Storage Water Rights Per ERC Per ERC Per ERC Total Total Total (gpd/ERC) (gallons/ERC) (gpm) (gallons) (ac-ft/yr) (ac-ft/yr) 1,044 554.7 526 583.984 0.53 391.73

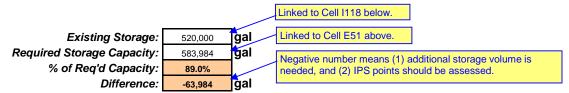
## Does this system have adequate source capacity per R309-510-7?

IPS points may be assessed for lacking adequate source capacity to meet peak day and/or average yearly flow requirements.

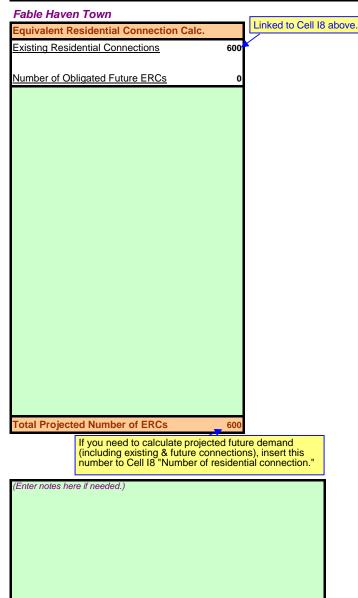
			Linked to Cell 199 below.
Existing Sources:	560.0	gpm	Linked to Cell C51 above.
Required Source Capacity:	554.7	gpm	
% of Req'd Capacity:	101.0%		Negative number means (1) additional source capacity is needed, and (2) IPS points should be assessed.
Difference:	5	gpm	needed, and (2) if o points should be assessed.

## Does this system have adequate storage capacity per R309-510-8?

IPS points may be assessed for lacking adequate storage capacity.



Non-Community Water Systems, ERCs for Indoor Water Use (*See R309-510, Tables 510-1, 2, and 4, for other facility type calc.)							
	MINIMUM REQUIREMENTS FOR INDOOR USE						
	Source		Storage				
Facility Type	GPD/person*	Calculated GPD/site or pad	GPD/person	Gallon/site or pad	ERC/site or pad	# of Sites or pads	ERCs
Modern Recreation Camp	60	0	30	0	0.00	0	0.0
Semi-Developed Camp w/ flush toilets	20	0	10	0	0.00	0	0.0
Semi-Developed Camp w/o flush toilets	5	0	2.5	0	0.00	0	0.0
RV Park	N/A	100	N/A	50	0.13	0	0.0
*Number of people per camp site	people per camp site 0 If applicable, enter number of people per camp site here.						
	Source (GPD/vehicle)	Storage (Gal./vehicle)	ERC/1000 vehicles served	# of Vehicles served	ERCs		
Roadway Rest Stop w/ flushometer valves	7	3.5	8.75	0	0.00		



Source	(in gallon	ns per minute)
WS001	A Spring	50
WS005	B Well	110
WS007	next town wholesale	400
Total Sour	ce Capacity	560
Max. ERC a	allowed (for indoor use only)	1008

Storage		(in gallons)
ST001	South Tank	100,000
ST002	East Tank	300,000
ST003	West Tank	20,000
ST004	North Tank	50,000
ST005	Middle Tank	50,000
Total Storag	520,000	

Diaphragm or air pressure tanks shall not be considered effective storage volume for community systems or NTNC with significant demand.