

Table 3-4: CFR Calculations For SAJB Wells Located Outside The Spokane Valley Aquifer System

Well	Delineation Scenario	Annual Q (Aft/yr)	Annual Q (ft ³ /yr)	Importance Factor	H (feet)	Notes	Radius (feet)	Area (ft ²)	Area (sq. miles)
WD #3 Pineriver Park	Water Rights	374	16,291,440	5	32	(a)	1,919	11,570,625	0.42
	Hottest Day	178	7,753,680				1,324	5,506,875	0.20
WWD #2 8A1	Water Rights	168	7,318,080	0.5	25	(b)	460	665,280	0.02
	Hottest Day	168	7,318,080				460	665,280	0.02
WWD #2 8A2	Water Rights	985.6	42,932,736	1.5	44	(c)	1,455	6,652,800	0.24
	Hottest Day	791	34,455,960				1,304	5,339,250	0.19
WWD #2 8B	Water Rights	8000	348,480,000	1.5	81	(d)	3,056	29,333,333	1.05
	Hottest Day	1133	49,353,480				1,150	4,154,333	0.15
WWD #2 RIV	Water Rights	78	3,397,680	0.1	10	(e)	222	154,440	0.01
	Hottest Day	78	3,397,680				222	154,440	0.01

Area = $Q * t / (n * H)$ where
 Q = annual pumping rate (ft³/yr)
 t = importance factor (time of travel)
 n = effective porosity = 0.22
 H = open interval (length of well screen)

Radius = $(Q * t / [3.1415 * n * H])^{1/2}$

Notes:

- (a) Based on well log attached to Susceptibility Assessment Survey for source number S01. Shows 12-inch diameter well screen for depth interval 172-204 ft bgs.
- (b) Length of open interval equals value used for calculated fixed radius calculation performed for Susceptibility Assessment Survey (source number S02).
- (c) Length of open interval is value reported on page 5 of Susceptibility Assessment Survey. Calculated fixed radius presented in Susceptibility Assessment Survey used 50 feet.
- (d) Length of open interval is value reported on page 5 of Susceptibility Assessment Survey. Calculated fixed radius presented in Susceptibility Assessment Survey used 75 feet.
- (e) Calculated fixed radius presented in Susceptibility Assessment Survey used 10 feet. Page 5 of Susceptibility Assessment Survey indicates actual length is 6 feet. A hand-written note on a photocopy states that the open interval is "21 to 29 feet according to well log".