

77. S. S. (5	regon Water Resource: 25 Summer Street NE, Stalem, Oregon 97301-127 (03) 986-0900 www.wrd.state.or.us	uite A	🔀 Water Ri	ater Review Form: ight Transfer mendment ification
Application: T- <u>11</u>	<u>147</u>		Applicant Nan	ne: Sunrise Water Authority
Proposed Changes	: ⊠ POA □ USE	☐ APOA ☐ POU	☐ SW→GW ☐ OTHER	⊠ RA
Reviewer(s): <u>Josh</u>	<u>Hackett</u>		Date of I	Review: December 14, 2010
The information paransfer may be ap		ication is insu	fficient to evalua	te whether the proposed
The water we affected by th		with the appli	cation do not cor	respond to the water rights
			•	otion of the well construction or proposed to be developed.
Other				
change in POA authorized we Authority We Damascus Gre	A to certificate 434 Il on the certificate Il 6). Both the auth	436. CLAC 45 e. The propose norized and the l Area. The pro-	79 (Sunrise Wated new POA is Company POAs	application proposes a er Authority Well 1E) is the LAC 4683 (Sunrise Water are located within the ocated approximately 1 mile
Information indicates the variation indicates the variation indicates the variation indicates the variation in the well about the well was originated in the Comparison of the	No Common from the original well was drilled in the Basalt Group (Colly extending to 83 ove a depth of 833 ong in the well is period in the well is period from the well in the well is period from the well in th	ents:	report for the autento both the all system. The we and surface (bls) G aquifer system alluvial aquifer 334 feet and open on log for the webls to 1066 feet bepth of 826 feet in the surface and surfac	thorized POA (CLAC 4579) luvial aquifer and the ll is 1066 feet deep with The alluvial aquifer is found is found below a depth of from 300 to 305 feet bls. The to multiple water-bearing ell (CLAC 4582) indicates ols in 1974. A plastic liner was in 1991 (CLAC 2944). The
bearing zones		ifer system. Th	ne well is 720 fee	and is open to multiple water- et deep with casing extending 4 feet bls.

Transfer Application: T-11147

	Static water level data suggest the wells do not develop the same aquifer; however, well construction issues complicate aquifer determinations. Hydraulic head data in the form of
	static water level measurements are commonly used to make aquifer determinations. Wells
	with similar static water levels are generally presumed to produce from the same aquifer.
	CLAC 4579 commingles the alluvial aquifer and the CRBG aquifer system, as such, the
	static water level elevation in CLAC 4579 (357 feet above mean sea level) is a composite
	head of both aquifers. Static water level elevations in nearby wells completed only in the
	alluvial aquifer range from approximately 240 feet to 420 feet above mean sea level (msl)
	(Figure 2), while static water level elevations in nearby basalt wells range from 70 to 120
	feet above msl (Figure 3). The high static water level elevation in CLAC 4579 suggests that
	although the well is open to both the alluvial and basalt aquifers, it probably obtains most of
	its production from the alluvial aquifer.
3.	a) Is there more than one source developed under the right (e.g., basalt and alluvium)? Yes No Comments: The authorized POA produces from the alluvial aquifer and the Columbia River Basalt Group aquifer system.
	b) If yes, estimate the portion of the right supplied by each of the sources and describe any limitations that will need to be placed on the proposed change (rate, duty, etc.): The hydraulic head in the authorized POA (CLAC 4579) is likely controlled by aquifer pressure in the alluvial aquifer, suggesting most of the production is from the alluvial aquifer. Estimating the portion of the water right supplied by each source comes with some uncertainty, however, considering the data presented above, a reasonable estimate for the portion of the right supplied by each source is 75% from the alluvial aquifer and 25% from the basalt aquifer system. If this transfer is approved, production should be limited to 25% of the maximum rate allowed on certificate 43436.
1.	a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with another ground water right ? Yes No Comments: Most of the interference from the authorized POA (CLAC)
	4579) occurs with alluvial wells. The proposed POA (CLAC 4683) will introduce a new interference to wells completed in the CRBG aquifer system.
	b) If yes, would this proposed change, at its maximum allowed rate of use, likely result in another groundwater right not receiving the water to which it is legally entitled? Yes No If yes, explain:
5.	a) Will this proposed change, at its maximum allowed rate of use, likely result in an increase in interference with another surface water source ? Yes No Comments: Water-producing zones in the proposed POA (CLAC 4683) are below the elevation of nearby creeks and streams.
	b) If yes, at its maximum allowed rate of use, what is the expected change in degree of interference with any surface water sources resulting from the proposed change? Stream:
	Provide context for minimal/significant impact:

Ground Water Review Form

Transfer Application: T-11147

6. What conditions or other changes in the application are necessary to address any potential issues identified above: _____
7. Any additional comments: _____

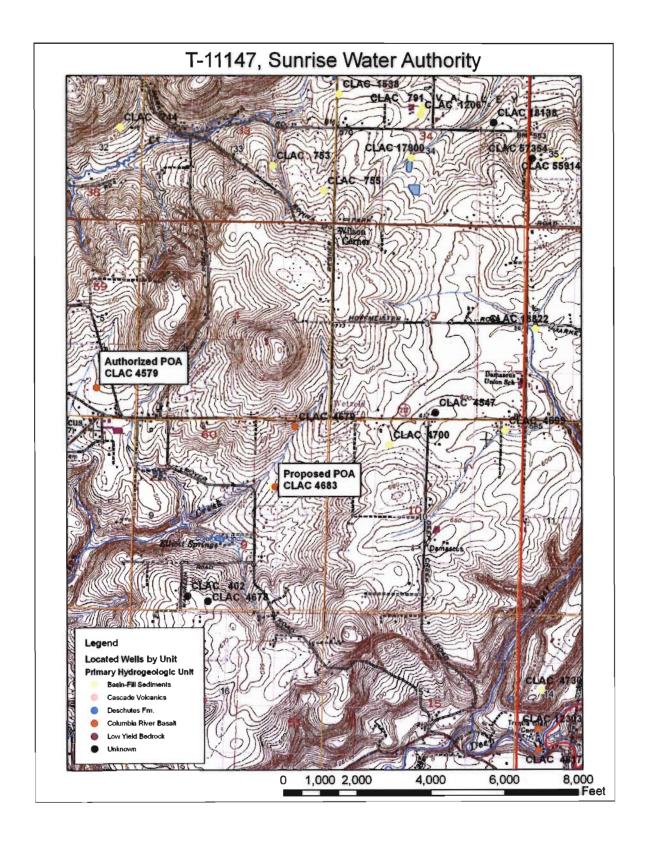


Figure 1. Well Location Map

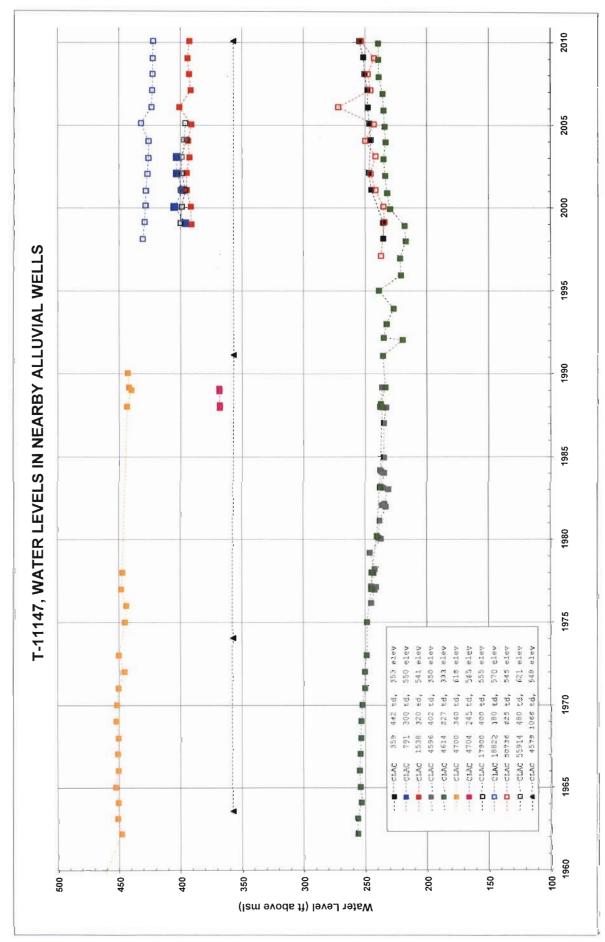


Figure 2. Static water level elevations in nearby alluvial wells.

Page 5 of 6

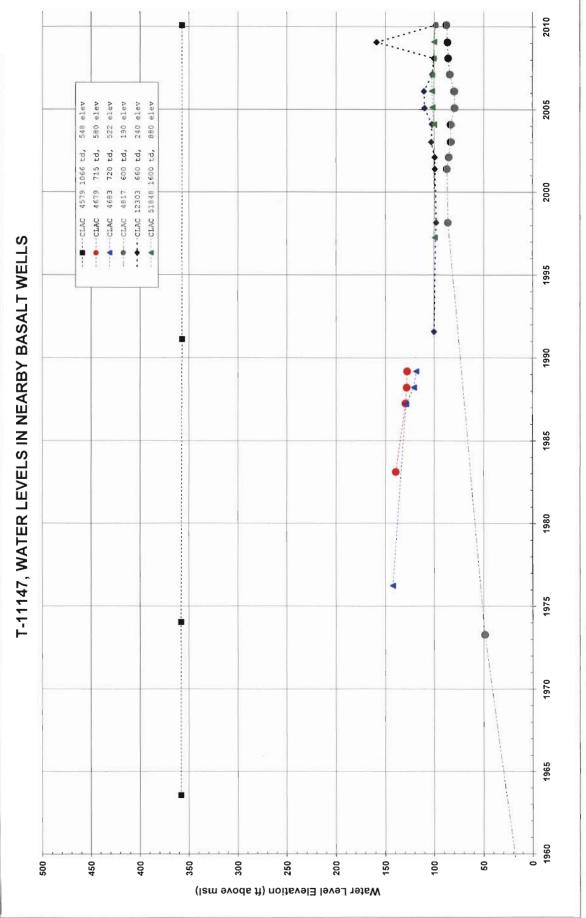


Figure 3. Static water level elevations in nearby basalt wells.

Page 6 of 6