Water Right Conditions Tracking Slip
Groundwater/Hydrology Section
FILE ## <u>G-15921</u> ROUTED TO: <u>Water Rights</u> TOWNSHIP! RANGE-SECTION: <u>25/38E-1dd</u>
CONDITIONS ATTACHED? [Yes [] no REMARKS OR FURTHER INSTRUCTIONS:
Reviewer: Michael Zwort

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1. **4**. N Water Resources Department

MEMO

av 21 . 2003

TO	Application $G-15$	921
FROM	GW: Michael ZWA	-t
	(Reviewer's Nam	e)

SUBJECT



The source of appropriation is within or above a Scenic Waterway.

Scenic Waterway Interference Evaluation



No

Use the Scenic Waterway condition (Condition 7J).

PREPONDERANCE OF EVIDENCE FINDING: (Check box only if statement is true)

At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

FLOW REDUCTION: (To be filied out only if <u>Preponderance of Evidence</u> box is not checked)

Exercise of this permit is calculated to reduce monthly flows in Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	N ov	Dec
		:		• •			· .	£			

TO:	•	Water I	•							May -	21, 2(00 <u>3</u>	
FROM	:	Ground	Water/	Hydrology	Section _	Mich	rel Z	wart					
SUBJE	CT	Applies	tion G-	15921		Rev	Reviewer's Name Supersedes review of N/A						
JODJE		Applica	nion G-	13 1 - 1		54	perseues re-		-/~	Date of Re	view(s)		
DAR 69 welfare, o detern he pres	90-310-1 , safety a mine whe sumption	30 (1) The nd health ether the p	e Depart as descr presump This revi	<i>ibed in ORS</i> tion is establ ew is based	resume the 537.525. I ished. OAI upon ava	nt a propos Departmen R 690-310- ilable info	<i>ed groundwa</i> t staff review -140 allows th rmation and	ground wat he proposed agency pol	ensure the pres ter applications use be modifie icies in place a ta Cuthba	under OA d or cond t the time	AR 690-3 litioned to	10-140 meet	
											· · · · · · · · · · · · · · · · · · ·		
A 1.	Applica	nt(s) seek	(s) <u>1.2</u>	69_ cfs from	m/	well	(s) in the		Grande	Nend	e	_ Basir	
								-	mbler				
.2.	Propose	ed use: i	rigatio	n 101.54	ac. pri	mary Sea	sonality:	larch 1	to Octo	ber 3	1		
			-		•								
.3.	Well an	d aquifer	·				G		l wells as such				
Well	Lo	ogid		oposed quifer*	Proposed Rate(cfs		Location	Lo	cation, metes a 2250' N, 1200	Ind bound	is, examp	ple:	
f ¥	UNIO T	2566	Allur	uner	1.269	25/38	E · / SE · S	E SO'N	2250' N, 1200 250' W fr.	SE cor	Sec. 1		
2													
3 4													
5													
Alluvi	um, CRB,	Bedrock					A. A. A. Harrison						
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval	Casing Intervals	Liner Intervals	Perforations Or Screens	Well Yield	Draw Down	Test Type	
4	2778	76	87	4/12/95	943	0-36	0-943	-	542.562	500	425	Pump	
							except perf		579- 589		<u> </u>		
							interval,		606-616				
									660-680				
									735- 746				
		lication for			Well is	e varel	c. L Com	26-1600'	780 - 790 801 - 820 840 - 860 694 - 860	923.9	33		
Log 1	in dicate	s all	sand	+ gravel 1	selow 76	is .	water bear	ing	840 - 860 898 - 908				
				- ,									
•						· · · · · · · · · · · · · · · · · · ·							
						· · · · · · · · · · · · · · · · · · ·	<u> </u>						
\5. □	manage (Not all	ment of g basin rul	round w es contai	ater hydraul in such provi	ically conr isions.)	nected to su	Basin ru Irface water	🗌 are, or [to the developm Tare not, activ	ent, class vated by t	ification his applic	and/or cation.	
									······································				
.6. 🗌	Name o	of adminis	trative a	rea:					er limited by an			triction	

- B1. Based upon available data, I have determined that ground water for the proposed use:
 - a. is over appropriated, is not over appropriated, or cannot be determined to be over-appropriated during any period of the proposed use;
 - b. will not or will likely be available in the amounts requested without injury to prior ground water rights;
 - c. will not or will likely to be available within the capacity of the ground water resource; or
 - d. I will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:
 - i. The permit should contain condition #(s) + 7E
 - ii. The permit should be conditioned as indicated in item 2 below.
 - iii. The permit should contain special condition(s) as indicated in item 3 below;
- B2. a. Condition to allow ground water production from no deeper than ______ ft. below land surface;
 - b. Condition to allow ground water production from no shallower than ______ ft. below land surface;
 - c. Condition to allow ground water production only from the ______ ground water reservoir between approximately ______ ft. and ______ ft. below land surface;
 - d. Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

Describe injury -as related to water availability- that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc):

B3. Ground water availability remarks:

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C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

C1. 690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined	
4	Sand + guard interbedded with chay		<u> </u>	
Basis for	aquifer confinement evaluation: Well log indicates w indication of changing SWI with increasing	16. Zone and swl.	are similar	
no	indication of changing SWI with increasing	is death : well h	as shallow	
5-2	cal depth and is gravel packed nearly top t	o bottom thus al	lowing gw production	
(rom all zones the helow 76.	/		

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¹/₄ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydrau Conne YES NO	-	Potentia Subst. Int Assume YES	erfer.
4	/	Grande Roude River	~ 2690	2(70	15,000				g
	2	Canyon Creek	14	2735	10,000	9			
		· · · · · · · · · · · · · · · · · · ·							
							<u> </u>		
							<u> </u>		
								<u> </u>	
Basis for <u> c</u> 11 m <u> <u> c</u> 11 m <u> c</u> 11 m</u>		r hydraulic connection evaluation: which is very likel penetrated at the s	Aquife- Y in ubject	je wan good hy well.	confined, idvantic e	viver is	flowing with the	within adject	ent

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. If Q is not distributed by well, use full rate for each well. If modeled, include description and model parameters in Comments (C3b). Any checked 🖾 box indicates the well is assumed to have the potential to cause substantial interference with surface water.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw> 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference (a) 30 days (%)	Potential for Subst. Interfer. Assumed?
										<u> </u>
								 		

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C3b. 690-09-040 (4): Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

SW #	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference (a) 30 days (%)	Potential for Subst. Interfer. Assumed?
Comments:	s section no	t applica	ble : well	> Inile	e from s	W Senree	{	

C4a. 690-09-040 (5): Estimated impacts on surface water sources as percent or qualitative fraction* of proposed pumping rate. Limit evaluation to one year of pumping.

Well	SW#	Jan	Feb	Mar♦	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	VL											VL
1	2	VL											VL

*VL = Very Low (<5%), L = Low (5-25%), I = Intermediate (25-75%), H = High (>75%).

Basis for impact evaluation:

- C4b. 690-09-040 (5): Evaluation of paragraphs under subsection 5. A determination of 🖾 Low denotes no connection or a very indirect connection between surface water and ground water; 🖾 High denotes hydraulic connection that would likely reduce surface water availability in the first year of pumping. Do not equate "Low" and "High" between C4a and C4b.
 - (a) The potential to reduce surface water availability in ______ Grande Ronde Ris, is VLow or || High The potential to reduce surface water availability in _______ Comyon Creek is VLow or || High The potential to reduce surface water availability in _______ is || Low or || High The potential to reduce surface water availability in _______ is || Low or || High The potential to reduce surface water availability in _______ is || Low or || High Basis: <u>Although hydraulic connection exists</u> the distance to the sw sources is great enough that reduction in sw. availability during 1st year of ppg is low:

(b) The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

Application G continued	I _	May 21, 2003
C4b. 690-09-040 (5):. Evaluation of paragraphs	s under subsection 5 continued.	
(c) The percentage of appropriation in the Basis: <u>Used</u> stream depleti	first year of use that will be at the expen on analy fical program.	
(d) The timing of interference will be [] i Basis: <u>s</u> ee ないこと	mmediate (within one year), or 🗹 del:	
(e) The potential for cumulative adverse in	npacts: A graphical distribution of PC	DAs and summary of permitted rights able at this time of review.
Impacted stream	Impacted basin or sub-basin	Existing Ground Water Rights (cfs)
 iii. The permit should be condition C6. If the well is not reconstructed, it will in surface water from interference. If the group of the group of	found to substantially interfere with surfa- ondition $\#(s)$ $\overrightarrow{\mathcal{PJ}}$ becial condition(s) as indicated in "Remar- oned as indicated in item 6 below; interfere with surface water. Well reconst- bound water use under this permit is found	ice water: ks" below; ruction, as follows, will adequately prote to have the potential for substantial
interference with surface water, I recomm with the Department and approved by the		intil evidence of well reconstruction is fi
The well should be reconstructed as fol	lows:	
C7. SW / GW Remarks		

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Applic	Nation G- 1592/	continued	May 21, 200 3
D. <u>W</u>	ELL CONSTRUCTION, C	DAR 690-200	
D1.	Well #:	Logid: 11/10 256	6
D2.	a. b. c. c. c. c. c. c. c. c. c. c		upon: ; ;
D3.	 b. commingles water f c. permits the loss of a d. permits the de-wate 	threat under Division 200 rules; from more than one ground water reservoir;	
D4.	THE WELL construction of	leficiency is described as follows:	
D5.		was, or was not constructed according to the original construction or most recent modification I don't know if it met standards at the time of the original construction or the original const	on.
D6. [of the permit until evidence of well reconstruction
THIS	SECTION TO BE COMP	LETED BY ENFORCEMENT PERSO	NNEL
D7. [Well construction deficiency	has been corrected by the following actions:	
	(Enforcement Section	on Signature)	, 200
D8. [Route to Water Rights Sec	ction (attach well reconstruction logs to this	page).

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