## Water Right Conditions . Tracking Slip

Groundwater/Hydrology Section
FILE # # G- 17639
ROUTED TO: Water Rights - Kerry
TOWNSHIP/ RANGE-SECTION: 175/46E-13 db
CONDITIONS ATTACHED?: [4] yes [] no
REMARKS OR FURTHER INSTRUCTIONS:
M:4-3-4

## WATER RESOURCES DEPARTMENT June 19,20(3 **MEMO** Application G- 17639 TO: GW: Mike Zwart (Reviewer's Name) FROM: Scenic Waterway Interference Evaluation SUBJECT: YES The source of appropriation is within or above a Scenic Waterway NO YES Use the Scenic Waterway condition (Condition 7J) NO Per ORS 390.835, the Ground Water Section is able to calculate ground water interference with surface water that contributes to a Scenic Waterway. The calculated interference is distributed below. Per ORS 390.835, the Ground Water Section is unable to calculate ground water interference with surface water that contributes to a scenic waterway; therefore, the Department is unable to find that there is a preponderance of evidence that the proposed use will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway. DISTRIBUTION OF INTERFERENCE Calculate the percentage of consumptive use by month and fill in the table below. If interference cannot be calculated, per criteria in 390.835, do not fill in the table but check the "unable" option above, thus informing Water Rights that the Department is unable to make a Preponderance of Evidence finding.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Waterway by the following amounts expressed as a proportion of the consumptive use by

Exercise of this permit is calculated to reduce monthly flows in

which surface water flow is reduced.

## PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights Se	ection				Dat	e June	19, 2013		
FROM	:	Grou	nd Water/I	- Hydrology	Section		ael Zwart					
SUBJE	CT:	Appli	ication G	17639			iewer's Name persedes re	eview of				
5000		търп		17007		50	ipersedes iv	cview oi		Date of Re	eview(s)	
OAR 69 welfare, to determ the press	90-310-1 safety a mine who umption	30 (1) 7 and heal ether the criteria	th as descri e presumption. This revie	nent shall p bed in ORS on is establ w is based	oresume the 537.525. ished. OA upon ava	at a proposi Departmen R 690-310- ilable info	sed groundw t staff revie 140 allows t rmation and	w ground wa the proposed d agency pol	ensure the priter application use be modificies in place	ns under Oa ied or cond at the time	AR 690-3 itioned to e of evalu	10-140 meet ation.
			RMATIO							-		ır
<b>A</b> 1.	Applica	ınt(s) se	ek(s) <u>1.11</u>	4 cfs fro	m <u>one</u>							_ Basin,
						subt	oasin Qu	ıad Map:N	<u> Ialheur Butt</u>	<u>e</u>		
A2. A3.								Year roun	d wells as suc	h	-2.3\.	
A3.		a aquir										
Well	Log	id	Applicant' Well #		oposed quifer*	Propos Rate(c		Location /R-S QQ-Q)		ion, metes o' N, 1200' E		
1 2	Propo	sed	3	Terti	ary Seds.	1.114	175/4	6E-13 NW-	SE 600	)' S, 245' E	fr Center	S 13
3				<del>                                     </del>								
4												
5 * Alluviu	ım, CRB.	Bedrock						_				
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)		Draw Down (ft)	Test Type
1	2408		40±		600±	0-80	0-500	None	500-600±			
Use data	from app	lication	for proposed	wells.								
A4.	Comme	ents: <u>*C</u>	<u>)rganizatio</u>	<u>n is Ontar</u>	io Asset H	loldings, L	LC.					
A5. 🛚	manage (Not all	ment of basin r	ground wat ules contain	er hydraul such prov	ically conn isions.)	ected to su	rface water	are, or 🛭	o the develop	ivated by th	ification a	and/or ation.
A6. 🗌	Name o	f admin	istrative are	a:					er limited by			striction.

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period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;  b.   will not or   will likely be available in the amounts requested without injury to prior water rights. * This find is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;  c.   will not or   will likely to be available within the capacity of the ground water resource; or  d.   will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:	<u>ROUN</u>	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070
period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;  b.   will not or   will likely be available in the amounts requested without injury to prior water rights. * This find is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;  c.   will not or   will likely to be available within the capacity of the ground water resource: or  d.   will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:	Bas	sed upon available data, I have determined that ground water* for the proposed use:
is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;  c.   will not or   will likely to be available within the capacity of the ground water resource; or  d.   will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:   i.   The permit should contain condition #(s)   7C     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;  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 like occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withhold issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Gr Water Section.  Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference senior water rights, not within the capacity of the resource, etc):	a.	
d.   will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:   i.   The permit should contain condition #(s)	b.	■ will not or ■ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
i.  The permit should contain condition #(s) 7C  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;  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 like occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withhold is issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Greater Section.  Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference senior water rights, not within the capacity of the resource, etc):	c.	$\square$ will not or $\square$ will likely to be available within the capacity of the ground water resource; or
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 like occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withhold issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Grader Water Section.  Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference senior water rights, not within the capacity of the resource, etc):	d.	<ul> <li>i.  The permit should contain condition #(s) 7C</li> <li>ii.  The permit should be conditioned as indicated in item 2 below.</li> </ul>
c. Condition to allow ground water production only from the 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 like occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withhold issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Gr Water Section.  Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference senior water rights, not within the capacity of the resource, etc):  Ground water availability remarks: There are not any nearby observation wells. More distant wells penetrating alluvial aquifer display relatively stable water levels. There are no wells penetrating the Glenns Ferry Formation	a.	Condition to allow ground water production from no deeper than ft. below land surface;
d.	b.	Condition to allow ground water production from no shallower than ft. below land surface;
occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholdi issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Gr Water Section.  Describe injury —as related to water availability—that is likely to occur without well reconstruction (interference senior water rights, not within the capacity of the resource, etc):  Ground water availability remarks:  There are not any nearby observation wells. More distant wells penetrating alluvial aquifer display relatively stable water levels. There are no wells penetrating the Glenns Ferry Formation.	c.	Condition to allow ground water production only from the ground water reservoir between approximately ft. and ft. below land surface;
Ground water availability remarks: There are not any nearby observation wells. More distant wells penetratinalluvial aquifer display relatively stable water levels. There are no wells penetrating the Glenns Ferry Formation	d.	■ Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely 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 Grou Water Section.
alluvial aquifer display relatively stable water levels. There are no wells penetrating the Glenns Ferry Formation		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):
	<u>allu</u>	ivial aquifer display relatively stable water levels. There are no wells penetrating the Glenns Ferry Formation w

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Date: June 19, 2013

## 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
1	Glenns Ferry Formation (Tig) of GW Report #34.		

Basis for aquifer confinement evaluation: Where the upland gravels are saturated, groundwater appears to be poorly to semiconfined. The water-bearing zones in the Glenns Ferry Formation are typically confined. Here, I believe that the upland gravels may be cased and sealed off. Therefore, the proposed wells will likely be producing all or the majority of their production from the Glenns Ferry Formation.

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 ¼ 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. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected? YES NO ASSUMED	Potential for Subst. Interfer. Assumed? YES NO
1	1	Jacobsen Gulch	2370±	2310	4100		
1	2	Malheur River	2370±	2150	16500		

Basis for aquifer hydraulic connection evaluation: The aquifer developed in the Glenns Ferry Formation likely discharges to the overlying or adjacent alluvial deposits and therefore is in indirect and inefficient hydraulic connection with surface water. If the upland gravels produce any water here, that aquifer is likely only in hydraulic connection with the Owyhee Canal to the north and west (GW Report #34).

Water Availability Basin the well(s) are located within: No WAB data in this area.

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. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < <sup>1</sup> / <sub>4</sub> 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 @ 30 days (%)	Potential for Subst. Interfer. Assumed?
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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	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
Comments:	This section de	nes not apply.		<u> </u>	_			

Comments:	This section does not apply.		 	 
	<del></del>		 	

C4a. 690-09-040 (5): Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

	istributed						_			_	_		_
Well	SW#	Jan	Feb	Mar _	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	ence CFS												
- · · · · ·			_	_									
	uted Well		<b>.</b>								•		ъ
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q													
Interfere	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS			_									
Interfere	nce CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
	ence CFS												
(A) = To	tal Interf.												
(B) = 80	% Nat. Q												
(C) = 1	% Nat. Q												
(D) = (A	) > (C)	V	31	¥'	1	4	₽ <sup>¢</sup> °	V	4	1	1	¥.	1
(T) (A	/ B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

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cation G- <u>17039</u> Continued	Date: <u>June 19, 2013</u>
Deals for the second set	
Basis for impact evaluation:	
690-09-040 (5) (b) The potential to impair or detri	mentally affect the public interest is to be determined by the W
Rights Section.	
1 <b>70</b>	
If properly conditioned, the surface water source(s) ca	an be adequately protected from interference, and/or ground water
under this permit can be regulated if it is found to subst	
<ul> <li>i.  The permit should contain condition #(s)_</li> <li>ii.  The permit should contain special condition</li> </ul>	(A) '-1'-1-1'- (C)1-11-1-1-1
ii. Li The permit should contain special condition	n(s) as indicated in "Remarks" below;
V / GW Remarks and Conditions	
	<del></del>
	hall Gannett; local well logs; local reviews, especially G-17554
510 & G-17513.	

App	licati	ion G- <u>176</u>	639continued Date: <u>June 19, 2013</u>	_
D. <u>V</u>	<u>vei</u>	LL CON	STRUCTION, OAR 690-200	
D1.		Well #: _	Logid:	
D2.		a.	ELL does not meet current well construction standards based upon: review of the well log; field inspection by	_; _i 
D3.		a.	constitutes a health threat under Division 200 rules; commingles water from more than one ground water reservoir; permits the loss of artesian head; permits the de-watering of one or more ground water reservoirs; other: (specify)	
D4.		THE WE	ELL construction deficiency is described as follows:	
				_
				_
D5.		THE WE	<ul> <li>a.  was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.</li> <li>b.  I don't know if it met standards at the time of construction.</li> </ul>	
D6.			o the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction with the Department and approved by the Enforcement Section and the Ground Water Section.	
TH	IS S	ECTIO	N TO BE COMPLETED BY ENFORCEMENT PERSONNEL	=
D7.		Well cons	astruction deficiency has been corrected by the following actions:	_
				<u>-</u>
				_
			(Enforcement Section Signature), 200	
D8.		Route to	o Water Rights Section (attach well reconstruction logs to this page).	
				_

